

DCP COAN AT-1-1
FORM 19-S 90 DAY INVESTIGATION SUMMARY REPORT

ATTACHMENTS

Tables

- 1 Volatile Organic Compound (VOC) Soil Analytical Results
- 2 Polycyclic Aromatic Hydrocarbon (PAH) Soil Analytical Results
- 3 Site-specific Sampling and Analysis Plan
- 4 Summary of Table 915-1 Organic Concentrations in Groundwater

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- 1 Site Location Map
- 2 Soil Analytical Results Map (VOCs)
- 3 Groundwater Analytical Map – June 19, 2023
- 4 Proposed Monitoring Well Locations

Appendices

- A Laboratory Analytical Reports
- Summit Scientific Job #: 2304355R
 - Summit Scientific Job #: 2304392R
 - Summit Scientific Job #: 2304446R
 - Summit Scientific Job #: 2304517
 - Summit Scientific Job #: 2304529F
 - Summit Scientific Job #: 2305077F
 - Summit Scientific Job #: 2305114F
 - Origins Job #: Y306460

Table 1
Coan AT-1-1 Release
Table 915-1 VOCs and TPH Soil Sample Results
Weld County, Colorado

Sample ID	Date Sampled	Lab Report	PID Reading (PPM)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4-Trimethylbenzene (mg/kg)	1,3,5-Trimethylbenzene (mg/kg)	Naphthalene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg)	Comments
COGCC Residential Soil Screening Level Standards (mg/kg)	-	-	-	1.2	490	5.8	58	30	27	2				500	
COGCC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based ^(1 & 2) (mg/kg)	-	-	-	0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	-	-	-	500	
Source@ 4.5'	04/18/2023	2304355	620.7	23	34	7.3	60	15	6.2	3.3	1,700	120	<50	1,820	Source Sample
Source@ 16'	04/18/2023	2304355	619.2	0.044	0.30	0.090	0.26	0.56	0.18	0.13	19	<50	<50	19	Overexcavated
Source@ 20'	4/20/2023	2304446	742.7	4.3	27	8.5	44	22	7.0	5.1	1,400	4,300	260	5,960	Overexcavated
Source@ 26'	4/20/2023	2304446	62.3	0.026	0.023	<0.0050	0.029	0.0077	<0.0050	0.020	0.69	<50	<50	0.69	Overexcavated
Source@ 35'	4/24/2023	2304517	141.2	0.016	<0.0050	<0.0050	0.026	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<50	Overexcavated
Source@ 37'	4/25/2023	2304529	7.3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<50	Base Sample
SE-8'@ 14'	04/19/2023	2304392	161.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<50	Overexcavated
SE-15'@ 14'	04/18/2023	2304355	105.6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<50	Southeast Sidewall (Originally Test Pit)
NE-12'@ 12'	04/19/2023	2304392	113.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<50	Overexcavated
NE-14'@ 32'	5/3/2023	2305077	55.4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<50	Northeast Sidewall
NW-10'@ 6'	04/19/2023	2304392	313.9	0.69	7.0	7.6	59	21	8.9	5.3	1,000	750	54	1,804	Overexcavated
NW-12'@ 14'	4/20/2023	2304446	31.3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<50	Northwest Sidewall
NW-12'@ 32'	5/3/2023	2305077	45.4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<50	Northwest Sidewall
SW-10'@ 6'	04/19/2023	2304392	303.6	0.41	2.2	0.62	7.2	2.9	1.7	1.1	230	77	<50	307	Overexcavated
SW-15'@ 8'	4/20/2023	2304446	41.3	0.0068	<0.0050	<0.0050	0.028	0.035	<0.0050	0.038	<0.50	<50	<50	<50	Overexcavated
SW-24'@ 16'	4/25/2023	2304529	67.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<50	Southwest Sidewall
NE Base@ 37'	5/3/2023	2305077	29.5	0.023	0.022	<0.0050	0.012	<0.0050	<0.0050	0.0059	<0.50	<50	<50	<50	Overexcavated
NE Base@ 38'	5/4/2023	2305114	8.4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<50	Additional Base Sample

Notes:

1). The environmental cleanup standards for soil that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in soil according to Table 915-1 of the COGCC 900 Series Rule for E&P Waste Management.

2). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021. If there is no pathway for communication with Groundwater, then residential soil screening levels apply for organic compounds and metals. If the Director determines that a pathway to Groundwater exists, then the protection of Groundwater soil screening levels will apply, secondary to actual measured concentrations of the contaminants of concern in Groundwater.

GRO - Gas Range Organics

DRO - Diesel Range Organics

ORO - Oil Range Organics

TPH - Total volatile (C₆ - C₁₀) and extractable (C₁₀ - C₃₀) petroleum hydrocarbons.

Concentrations (mg/kg) Risk Based and MCL Based.

mg/kg= Milligrams per kilogram.

ppm - Parts per million

Bold values indicate an exceedance of COGCC Protection of Groundwater Standards

Bold red values indicate an exceedance of COGCC Residential Soil Standards

Table 2
Coan AT-1-1
Polyaromatic Hydrocarbon (PAHs) Soil Sample Results
Weld County, Colorado

Sample ID	Date Sampled	Lab Report	PID Reading (PPM)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benz(a)anthracene (mg/kg)	Benzo(a)pyrene (mg/kg)	Benzo(b)fluoranthene (mg/kg)	Benzo(k)fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3-cd)pyrene (mg/kg)	Pyrene (mg/kg)	1-methylnaphthalene (mg/kg)	2-methylnaphthalene (mg/kg)	Comments
COGCC Residential Soil Screening Level Standards (mg/kg) ⁽³⁾	-	-	-	360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24	
COGCC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based ⁽¹⁾ (mg/kg)	-	-	-	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019	
Source@4.5'	04/18/2023	2304355	620.7	<0.500	<0.500	<0.500	5.16	2.39	<0.500	4.73	<0.500	2.87	14.2	<0.500	2.06	54.0	85.4	Source Sample
Source@16'	04/18/2023	2304355	619.2	-	-	-	0.0223	0.00798	-	0.0243	-	0.0114	0.0681	-	0.0225	0.444	0.192	Overexcavated
Source@20'	4/20/2023	2304446	742.7	-	-	-	0.661	0.273	-	0.892	-	0.547	1.57	-	0.800	9.24	16.7	Overexcavated
Source@26'	4/20/2023	2304446	62.3	-	-	-	<0.00500	<0.00500	-	<0.00500	-	<0.00500	<0.00500	-	<0.00500	<0.00500	<0.00500	Overexcavated
Source@35'	4/24/2023	2304517	141.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Overexcavated
Source@37'	4/25/2023	2304529	7.3	-	-	-	<0.00500	<0.00500	-	<0.00500	-	<0.00500	<0.00500	-	<0.00500	<0.00500	<0.00500	Base Sample
SE-8'@14'	04/19/2023	2304392	161.2	-	-	-	<0.00500	<0.00500	-	<0.00500	-	<0.00500	0.00556	-	<0.00500	0.0212	0.0322	Overexcavated
SE-15'@14'	04/18/2023	2304355	105.6	-	-	-	<0.00500	<0.00500	-	<0.00500	-	<0.00500	<0.00500	-	<0.00500	<0.00500	<0.00500	Southeast Sidewall (Originally Test Pit)
NE-12'@12'	04/19/2023	2304392	113.2	-	-	-	<0.00500	<0.00500	-	<0.00500	-	<0.00500	<0.00500	-	<0.00500	0.0127	0.0166	Overexcavated
NE-14'@32'	5/3/2023	2305077	55.4	-	-	-	<0.00500	<0.00500	-	<0.00500	-	<0.00500	<0.00500	-	<0.00500	<0.00500	<0.00500	Northeast Sidewall
NW-10'@6'	04/19/2023	2304392	313.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Overexcavated
NW-12'@14'	4/20/2023	2304446	31.3	-	-	-	<0.00500	<0.00500	-	<0.00500	-	<0.00500	<0.00500	-	<0.00500	<0.00500	<0.00500	Northwest Sidewall
NW-12'@32'	5/3/2023	2305077	45.4	-	-	-	<0.00500	<0.00500	-	<0.00500	-	<0.00500	<0.00500	-	<0.00500	<0.00500	<0.00500	Northwest Sidewall
SW-10'@6'	04/19/2023	2304392	303.6	-	-	-	0.0155	0.00624	-	0.0131	-	<0.00500	0.0550	-	0.00969	0.500	0.369	Overexcavated
SW-15'@8'	4/20/2023	2304446	41.3	-	-	-	<0.00500	<0.00500	-	<0.00500	-	<0.00500	<0.00500	-	<0.00500	0.0235	0.0202	Overexcavated
SW-24'@16'	4/25/2023	2304529	67.2	-	-	-	<0.00500	<0.00500	-	<0.00500	-	<0.00500	<0.00500	-	<0.00500	<0.00500	<0.00500	Southwest Sidewall
NE Base@37'	5/3/2023	2305077	29.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Overexcavated
NE Base@38'	5/4/2023	2305114	8.4	-	-	-	<0.00500	<0.00500	-	<0.00500	-	<0.00500	<0.00500	-	<0.00500	<0.00500	<0.00500	Additional Base Sample

Notes:

1). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021.

mg/kg= Milligrams per kilogram.

PPM - Parts per million

PID - Photoionization Detector

Bold values indicate an exceedance of the COGCC soil standards for the Site.

Bold red values indicate an exceedance of COGCC Protection of Groundwater Soil Standards

TABLE 3
SITE SPECIFIC SOIL SAMPLING AND ANALYSIS PLAN
DCP MIDSTREAM - Coan AT-1-1

Site Specific Constituent of Concern for Soil Analysis	COGCC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based ⁽¹⁾
Benzene (mg/kg)	0.0026
Toluene (mg/kg)	0.69
Ethylbenzene (mg/kg)	0.78
Total Xylenes (mg/kg)	9.9
1,2,4-Trimethylbenzene (mg/kg)	0.0081
1,3,5-Trimethylbenzene (mg/kg)	0.0087
Naphthalene (mg/kg)	0.0038
TPH (mg/kg)	500
Benzo(b)fluoranthene (mg/kg)	0.3
Benzo(a)pyrene (mg/kg)	0.24
Chrysene (mg/kg)	9
Fluoranthene (mg/kg)	8.9
Fluorene (mg/kg)	0.54
1-methylnaphthalene (mg/kg)	0.006
2-methylnaphthalene (mg/kg)	0.019
Pyrene (mg/kg)	1.3

1). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021.

TPH - Total volatile (C₆ - C₁₀) and extractable (C₁₀ - C₃₆) hydrocarbons

mg/kg= Milligrams per kilogram.

Table 4
Summary of 915-1 Organic Concentrations in Groundwater
DCP Coan AT-1-1 Release
(June 19, 2023)
Weld County, Colorado

Location Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Naphthalene (µg/L)	Comments
Colorado Oil and Gas Conservation Commission Groundwater Standards (mg/L) ⁽¹⁾		5	560	700	1,400	67	67	140	
MW01	6/19/2023	34.2	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	

Notes:

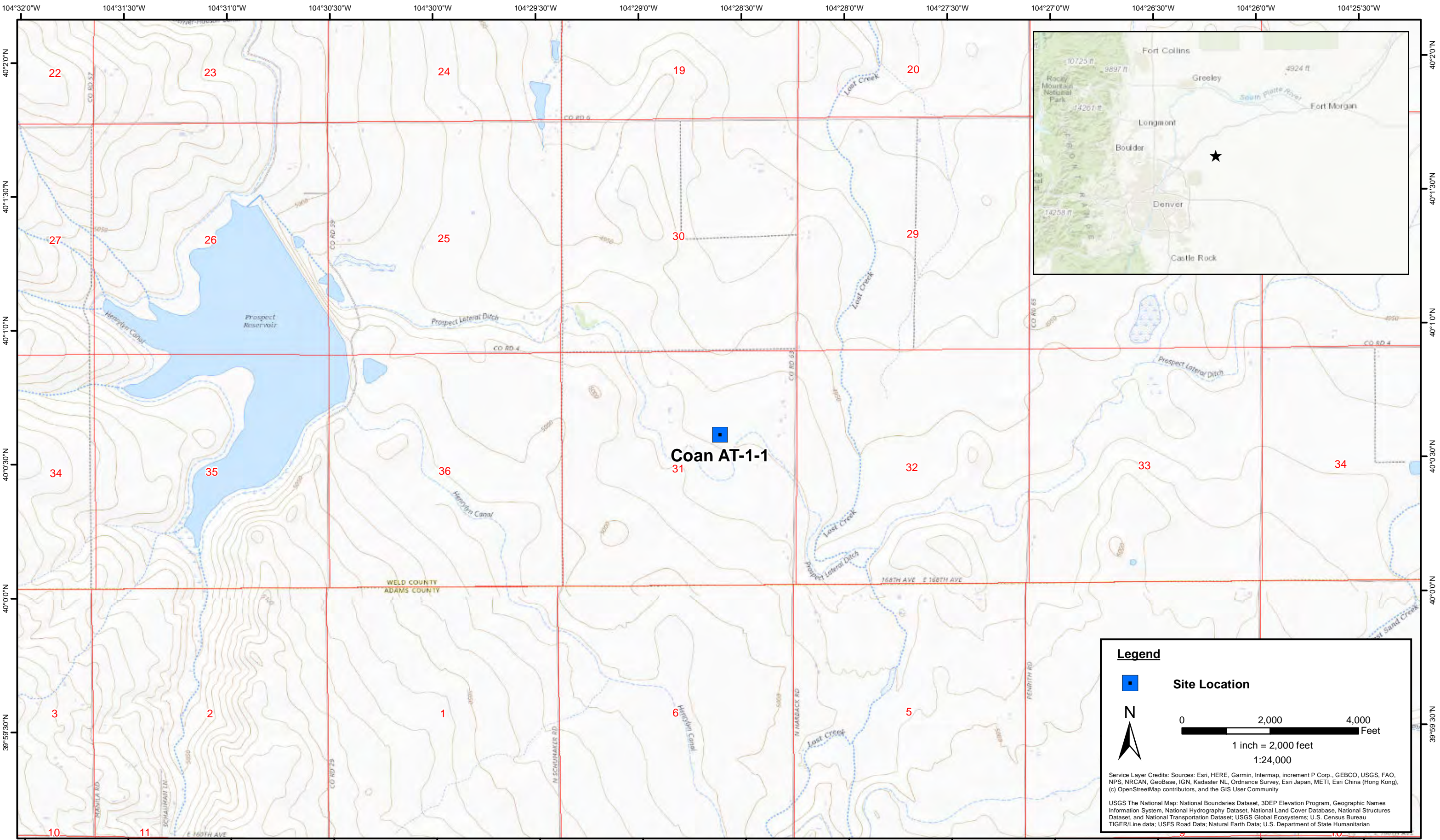
1.) The environmental cleanup standards that are applicable to the site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 915-1 of the COGCC 900 Series Rule for E&P Waste Management.

Bold red values indicate an exceedance of the COGCC groundwater standards for the Site.

LNAPL = light Non-Aqueous Phase Liquid

NS = not sampled

µg/L = micrograms per liter.



DATE:	April 2023
DESIGNED BY:	J. Watts
DRAWN BY:	J. Clonts

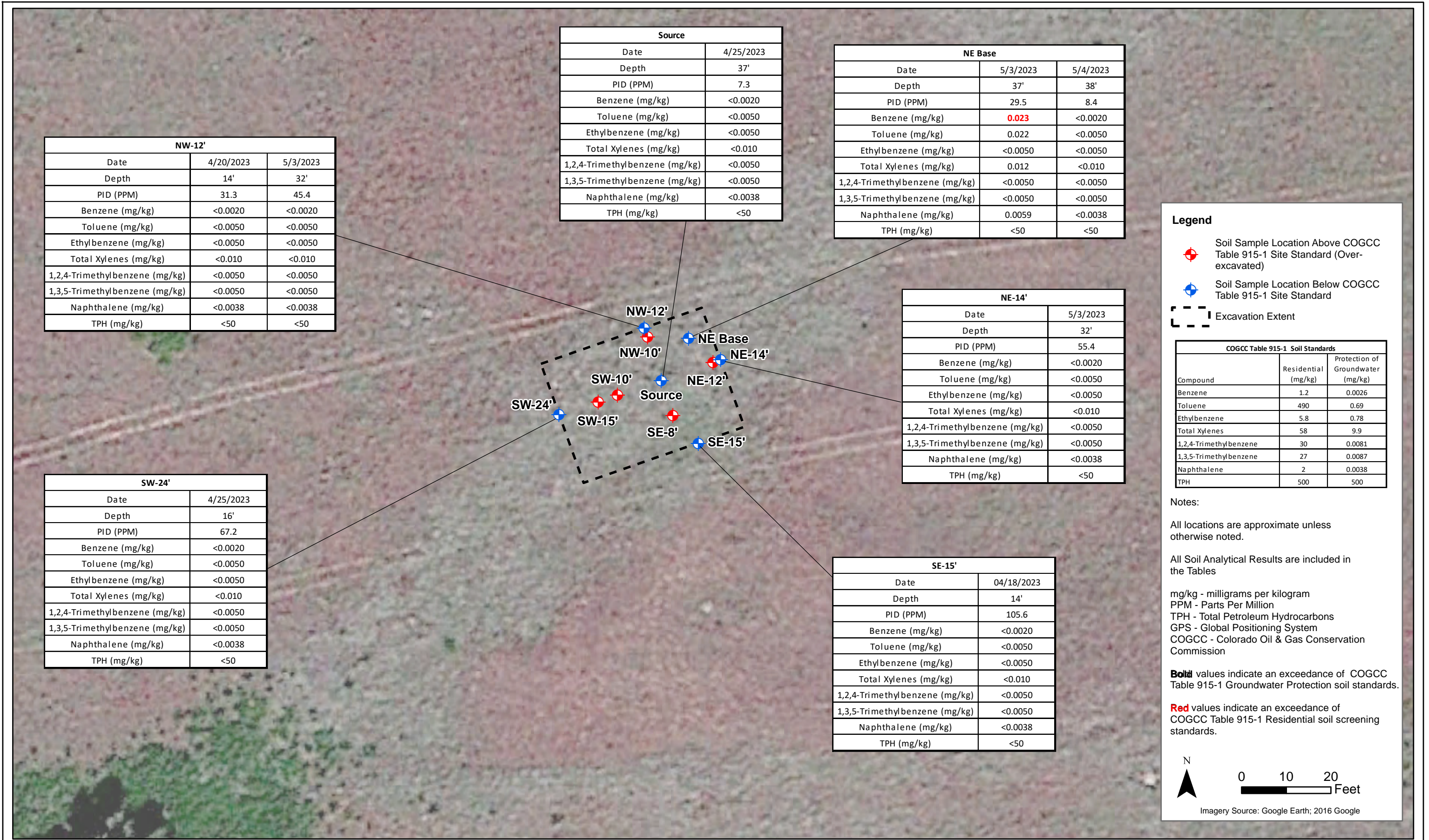


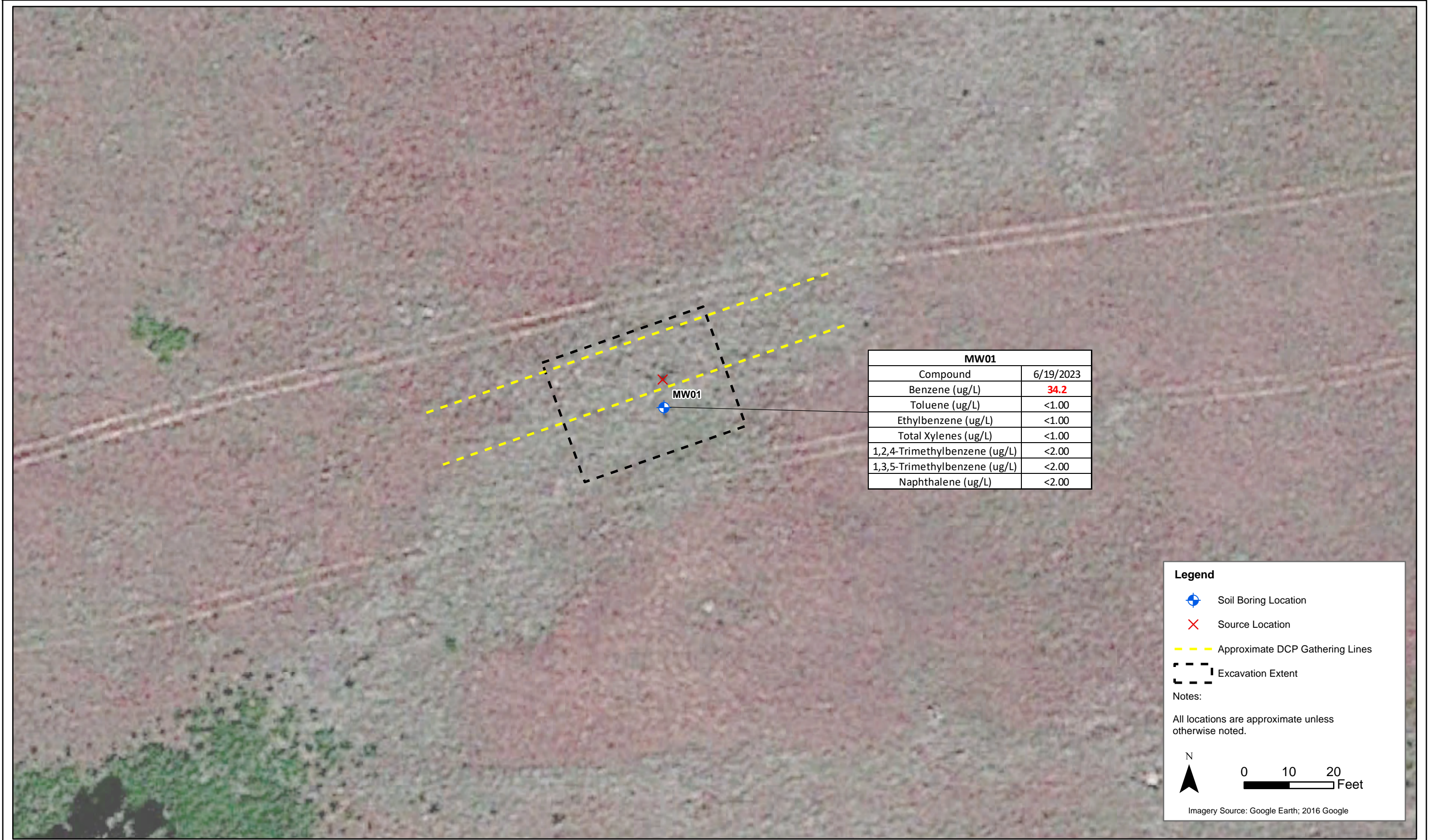
Tasman, Inc.
6855 W. 119th Ave
Broomfield, CO 80020

DCP Midstream
Coan AT-1-1
SWNE Sec. 31-T1N-R63W
Weld County, Colorado

Site Location Map

Figure
1





DATE: June 2023

DESIGNED BY: J. Watts

DRAWN BY: L. Reed

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

DCP Midstream
Coan AT-1-1
SWNE Sec. 31-T1N-R63W
Weld County, Colorado

Groundwater Analytical Map
(06/19/2023)

Figure
3



DATE:	June 2023
DESIGNED BY:	J. Watts
DRAWN BY:	L. Reed



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

DCP Midstream
Coan AT-1-1
SWNE Sec. 31-T1N-R63W
Weld County, Colorado

Proposed Well
Location Map

Figure
4

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 26, 2023

Jeb Watts

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: DCP - COAN AT-1-1

Work Order #2304355

Enclosed are the results of analyses for samples received by Summit Scientific on 04/18/23 17:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely", is written over a light blue rectangular background.

Scott Sheely For Paul Shrewsbury

President



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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 12:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Source@4.5'	2304355-01	Soil	04/18/23 08:23	04/18/23 17:10
Source@16'	2304355-02	Soil	04/18/23 12:23	04/18/23 17:10
SE-15'@14'	2304355-03	Soil	04/18/23 12:57	04/18/23 17:10

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

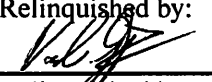
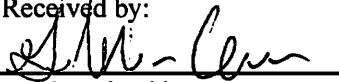
SUMMIT SCIENTIFIC

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

Lab ID	Page / of /
2304.355	

Client: DCP / Tasman		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave.		Project Manager: Chandler Cole / Jeb Watts		Company: DCP	
City/State/Zip: Broomfield CO 80070		E-Mail: ccrolp@dcpsystems.com; jwatts@dcpsystems.com		Project Name/Location: COAN AT-1-1	
Phone: 303 487 1228		Project Name: COAN AT-1-1		AFE#:	
Sampler Name: Vdp Scroggs		Project Number:		PO/Billing Codes:	
				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 _____									H = HOLD
1	Source @ 4.5'	4/18/23	0823	2			X			X			915 VOCs + TPH								
2	Source @ 16'	4/18/23	1223	2			X			X			915 PAHs								
3	SF-15' @ 14'	4/18/23	1257	2			X			X			915 Inorganic								
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: 	Date/Time: 4/18/23 1708	Received by: 	Date/Time: 17:10 4/18/23	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt:	Corrected Temperature: 12.1	IR gun #: 02	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2304355Client: DGP / Tasman Client Project ID: COAN AT-1-1Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #:
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 12.1Thermometer # 02

	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"/>	<u>on ice</u>
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Same Day</u>
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.GAC
Custodian Printed Name4/18/23 17:10
Date/Time



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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 12:50

Source@4.5'
2304355-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/18/23 08:23**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	23	0.020	mg/kg	10	BGD0585	04/18/23	04/18/23	EPA 8260B	E
Toluene	34	0.050	"	"	"	"	"	"	E
Ethylbenzene	7.3	0.050	"	"	"	"	"	"	E
Xylenes (total)	60	0.10	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	15	0.050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	6.2	0.050	"	"	"	"	"	"	E
Naphthalene	3.3	0.038	"	"	"	"	"	"	E
Gasoline Range Hydrocarbons	1700	5.0	"	"	"	"	"	"	E

Date Sampled: **04/18/23 08:23**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0302	75.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.110	275 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.0697	174 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/18/23 08:23**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	120	50	mg/kg	1	BGD0586	04/18/23	04/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/18/23 08:23**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.4	82.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 12:50

Source@4.5'
2304355-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/18/23 08:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.500	mg/kg	100	BGD0597	04/19/23	04/19/23	EPA 8270D SIM	
Anthracene	ND	0.500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.500	"	"	"	"	"	"	
Benzo (a) pyrene	5.16	0.500	"	"	"	"	"	"	
Benzo (b) fluoranthene	2.39	0.500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.500	"	"	"	"	"	"	
Chrysene	4.73	0.500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.500	"	"	"	"	"	"	
Fluoranthene	2.87	0.500	"	"	"	"	"	"	
Fluorene	14.2	0.500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.500	"	"	"	"	"	"	
Pyrene	2.06	0.500	"	"	"	"	"	"	
1-Methylnaphthalene	54.0	0.500	"	"	"	"	"	"	E
2-Methylnaphthalene	85.4	0.500	"	"	"	"	"	"	E

Date Sampled: **04/18/23 08:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.00	%	40-150		"	"	"	"	S-01
Surrogate: Fluoranthene-d10	0.00	%	40-150		"	"	"	"	S-01

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 12:50

Source@16'
2304355-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/18/23 12:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.044	0.0020	mg/kg	1	BGD0585	04/18/23	04/18/23	EPA 8260B	
Toluene	0.30	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.090	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.26	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.56	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.18	0.0050	"	"	"	"	"	"	
Naphthalene	0.13	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	19	0.50	"	"	"	"	"	"	

Date Sampled: **04/18/23 12:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0374	93.5 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0468	117 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0440	110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/18/23 12:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0586	04/18/23	04/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/18/23 12:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>	10.4	83.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 12:50

Source@16'
2304355-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/18/23 12:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) pyrene	0.0223	0.00500	mg/kg	1	BGD0751	04/24/23	04/24/23	EPA 8270D SIM	
Benzo (b) fluoranthene	0.00798	0.00500	"	"	"	"	"	"	
Chrysene	0.0243	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0114	0.00500	"	"	"	"	"	"	
Fluorene	0.0681	0.00500	"	"	"	"	"	"	
Pyrene	0.0225	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.444	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.192	0.00500	"	"	"	"	"	"	E

Date Sampled: **04/18/23 12:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0378	113 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0273	81.8 %	40-150		"	"	"	"	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 12:50

SE-15'@14'
2304355-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/18/23 12:57**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGD0585	04/18/23	04/18/23	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	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/18/23 12:57**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0390	97.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/18/23 12:57**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0586	04/18/23	04/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/18/23 12:57**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.3	90.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 12:50

SE-15'@14'
2304355-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/18/23 12:57**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) pyrene	ND	0.00500	mg/kg	1	BGD0751	04/24/23	04/24/23	EPA 8270D SIM	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/18/23 12:57**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0235	70.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0288	86.4 %	40-150		"	"	"	"	

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Tasman Geosciences
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Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 12:50

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 BGD0585 - EPA 5030 Soil MS

Blank (BGD0585-BLK1)

Prepared: 04/18/23 Analyzed: 04/19/23

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	0.0425		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0413		"	0.0400		103	50-150			

LCS (BGD0585-BS1)

Prepared: 04/18/23 Analyzed: 04/19/23

Benzene	0.0871	0.0020	mg/kg	0.100		87.1	70-130			
Toluene	0.0963	0.0050	"	0.100		96.3	70-130			
Ethylbenzene	0.110	0.0050	"	0.100		110	70-130			
m,p-Xylene	0.218	0.010	"	0.200		109	70-130			
o-Xylene	0.103	0.0050	"	0.100		103	70-130			
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.100		111	70-130			
Naphthalene	0.0818	0.0038	"	0.100		81.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0337		"	0.0400		84.2	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		98.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.2	50-150			

Matrix Spike (BGD0585-MS1)

Source: 2304355-02

Prepared: 04/18/23 Analyzed: 04/19/23

QM-07

Benzene	0.139	0.0020	mg/kg	0.100	0.0444	95.1	70-130			
Toluene	0.794	0.0050	"	0.100	0.296	498	70-130			
Ethylbenzene	0.394	0.0050	"	0.100	0.0897	304	70-130			
m,p-Xylene	2.14	0.010	"	0.200	0.627	757	70-130			
o-Xylene	0.908	0.0050	"	0.100	0.264	644	70-130			
1,2,4-Trimethylbenzene	1.39	0.0050	"	0.100	0.560	829	70-130			
1,3,5-Trimethylbenzene	0.490	0.0050	"	0.100	0.177	313	70-130			
Naphthalene	0.386	0.0038	"	0.100	0.133	253	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0367		"	0.0400		91.7	50-150			
Surrogate: Toluene-d8	0.0473		"	0.0400		118	50-150			
Surrogate: 4-Bromofluorobenzene	0.0315		"	0.0400		78.8	50-150			

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 12:50

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 BGD0585 - EPA 5030 Soil MS

Matrix Spike Dup (BGD0585-MSD1)	Source: 2304355-02			Prepared: 04/18/23 Analyzed: 04/19/23						QM-07
Benzene	0.118	0.0020	mg/kg	0.100	0.0444	73.9	70-130	16.5	30	
Toluene	0.532	0.0050	"	0.100	0.296	236	70-130	39.5	30	
Ethylbenzene	0.307	0.0050	"	0.100	0.0897	218	70-130	24.7	30	
m,p-Xylene	1.62	0.010	"	0.200	0.627	496	70-130	27.7	30	
o-Xylene	0.697	0.0050	"	0.100	0.264	433	70-130	26.3	30	
1,2,4-Trimethylbenzene	1.22	0.0050	"	0.100	0.560	660	70-130	12.9	30	
1,3,5-Trimethylbenzene	0.411	0.0050	"	0.100	0.177	234	70-130	17.5	30	
Naphthalene	0.392	0.0038	"	0.100	0.133	259	70-130	1.68	30	
Surrogate: 1,2-Dichloroethane-d4	0.0371		"	0.0400		92.7	50-150			
Surrogate: Toluene-d8	0.0432		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0485		"	0.0400		121	50-150			

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 12:50

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 BGD0586 - EPA 3550A

Blank (BGD0586-BLK1)

Prepared: 04/18/23 Analyzed: 04/19/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	10.0		"	12.5		80.2	30-150			

LCS (BGD0586-BS1)

Prepared: 04/18/23 Analyzed: 04/19/23

C10-C28 (DRO)	395	50	mg/kg	500		79.0	70-130			
Surrogate: o-Terphenyl	8.89		"	12.5		71.1	30-150			

Matrix Spike (BGD0586-MS1)

Source: 2304355-02

Prepared: 04/18/23 Analyzed: 04/19/23

C10-C28 (DRO)	392	50	mg/kg	500	32.9	71.9	70-130			
Surrogate: o-Terphenyl	6.49		"	12.5		51.9	30-150			

Matrix Spike Dup (BGD0586-MSD1)

Source: 2304355-02

Prepared: 04/18/23 Analyzed: 04/19/23

C10-C28 (DRO)	399	50	mg/kg	500	32.9	73.2	70-130	1.64	20	
Surrogate: o-Terphenyl	7.43		"	12.5		59.4	30-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 12:50

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0597 - EPA 5030 Soil MS

Blank (BGD0597-BLK1)

Prepared & Analyzed: 04/19/23

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	0.0385		"	0.0333		115	40-150			
Surrogate: Fluoranthene-d10	0.0390		"	0.0333		117	40-150			

LCS (BGD0597-BS1)

Prepared & Analyzed: 04/19/23

Acenaphthene	0.0384	0.00500	mg/kg	0.0333		115	31-137			
Anthracene	0.0368	0.00500	"	0.0333		110	30-120			
Benzo (a) anthracene	0.0300	0.00500	"	0.0333		90.0	30-120			
Benzo (a) pyrene	0.0303	0.00500	"	0.0333		90.8	30-120			
Benzo (b) fluoranthene	0.0384	0.00500	"	0.0333		115	30-120			
Benzo (k) fluoranthene	0.0328	0.00500	"	0.0333		98.4	30-120			
Chrysene	0.0300	0.00500	"	0.0333		89.9	30-120			
Dibenz (a,h) anthracene	0.0343	0.00500	"	0.0333		103	30-120			
Fluoranthene	0.0378	0.00500	"	0.0333		114	30-120			
Fluorene	0.0399	0.00500	"	0.0333		120	30-120			
Indeno (1,2,3-cd) pyrene	0.0315	0.00500	"	0.0333		94.6	30-120			
Pyrene	0.0364	0.00500	"	0.0333		109	35-142			
1-Methylnaphthalene	0.0382	0.00500	"	0.0333		115	35-142			
2-Methylnaphthalene	0.0365	0.00500	"	0.0333		110	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0350		"	0.0333		105	40-150			
Surrogate: Fluoranthene-d10	0.0362		"	0.0333		109	40-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 12:50

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 BGD0597 - EPA 5030 Soil MS

Matrix Spike (BGD0597-MS1)

Source: 2304373-01

Prepared & Analyzed: 04/19/23

Acenaphthene	0.0249	0.00500	mg/kg	0.0333	ND	74.8	31-137				
Anthracene	0.0264	0.00500	"	0.0333	ND	79.2	30-120				
Benzo (a) anthracene	0.0208	0.00500	"	0.0333	ND	62.5	30-120				
Benzo (a) pyrene	0.0226	0.00500	"	0.0333	ND	67.8	30-120				
Benzo (b) fluoranthene	0.0245	0.00500	"	0.0333	ND	73.4	30-120				
Benzo (k) fluoranthene	0.0220	0.00500	"	0.0333	ND	66.1	30-120				
Chrysene	0.0212	0.00500	"	0.0333	ND	63.5	30-120				
Dibenz (a,h) anthracene	0.0248	0.00500	"	0.0333	ND	74.3	30-120				
Fluoranthene	0.0245	0.00500	"	0.0333	ND	73.5	30-120				
Fluorene	0.0270	0.00500	"	0.0333	ND	81.0	30-120				
Indeno (1,2,3-cd) pyrene	0.0259	0.00500	"	0.0333	ND	77.6	30-120				
Pyrene	0.0342	0.00500	"	0.0333	ND	103	35-142				
1-Methylnaphthalene	0.0269	0.00500	"	0.0333	ND	80.8	15-130				
2-Methylnaphthalene	0.0280	0.00500	"	0.0333	ND	84.0	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0287		"	0.0333		86.1	40-150				
Surrogate: Fluoranthene-d10	0.0260		"	0.0333		78.0	40-150				

Matrix Spike Dup (BGD0597-MSD1)

Source: 2304373-01

Prepared & Analyzed: 04/19/23

Acenaphthene	0.0257	0.00500	mg/kg	0.0333	ND	77.2	31-137	3.11	30		
Anthracene	0.0214	0.00500	"	0.0333	ND	64.1	30-120	21.1	30		
Benzo (a) anthracene	0.0175	0.00500	"	0.0333	ND	52.5	30-120	17.4	30		
Benzo (a) pyrene	0.0216	0.00500	"	0.0333	ND	64.8	30-120	4.50	30		
Benzo (b) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.9	30-120	21.9	30		
Benzo (k) fluoranthene	0.0200	0.00500	"	0.0333	ND	60.0	30-120	9.67	30		
Chrysene	0.0199	0.00500	"	0.0333	ND	59.8	30-120	5.95	30		
Dibenz (a,h) anthracene	0.0216	0.00500	"	0.0333	ND	64.9	30-120	13.5	30		
Fluoranthene	0.0221	0.00500	"	0.0333	ND	66.3	30-120	10.2	30		
Fluorene	0.0218	0.00500	"	0.0333	ND	65.5	30-120	21.1	30		
Indeno (1,2,3-cd) pyrene	0.0207	0.00500	"	0.0333	ND	62.0	30-120	22.2	30		
Pyrene	0.0275	0.00500	"	0.0333	ND	82.6	35-142	21.7	30		
1-Methylnaphthalene	0.0229	0.00500	"	0.0333	ND	68.6	15-130	16.3	50		
2-Methylnaphthalene	0.0230	0.00500	"	0.0333	ND	69.0	15-130	19.6	50		
Surrogate: 2-Methylnaphthalene-d10	0.0248		"	0.0333		74.2	40-150				
Surrogate: Fluoranthene-d10	0.0225		"	0.0333		67.6	40-150				

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: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 12:50

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0751 - EPA 5030 Soil MS

Blank (BGD0751-BLK1)

Prepared & Analyzed: 04/24/23

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	0.0331		"	0.0333		99.2	40-150			
Surrogate: Fluoranthene-d10	0.0347		"	0.0333		104	40-150			

LCS (BGD0751-BS1)

Prepared & Analyzed: 04/24/23

Acenaphthene	0.0308	0.00500	mg/kg	0.0333		92.4	31-137			
Anthracene	0.0299	0.00500	"	0.0333		89.6	30-120			
Benzo (a) anthracene	0.0287	0.00500	"	0.0333		86.1	30-120			
Benzo (a) pyrene	0.0294	0.00500	"	0.0333		88.3	30-120			
Benzo (b) fluoranthene	0.0331	0.00500	"	0.0333		99.2	30-120			
Benzo (k) fluoranthene	0.0315	0.00500	"	0.0333		94.5	30-120			
Chrysene	0.0345	0.00500	"	0.0333		103	30-120			
Dibenz (a,h) anthracene	0.0326	0.00500	"	0.0333		97.7	30-120			
Fluoranthene	0.0296	0.00500	"	0.0333		88.8	30-120			
Fluorene	0.0295	0.00500	"	0.0333		88.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0352	0.00500	"	0.0333		106	30-120			
Pyrene	0.0379	0.00500	"	0.0333		114	35-142			
1-Methylnaphthalene	0.0267	0.00500	"	0.0333		80.1	35-142			
2-Methylnaphthalene	0.0308	0.00500	"	0.0333		92.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0262		"	0.0333		78.6	40-150			
Surrogate: Fluoranthene-d10	0.0301		"	0.0333		90.2	40-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 12:50

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0751 - EPA 5030 Soil MS

Matrix Spike (BGD0751-MS1)

Source: 2304475-01

Prepared & Analyzed: 04/24/23

Acenaphthene	0.0184	0.00500	mg/kg	0.0333	ND	55.3	31-137			
Anthracene	0.0186	0.00500	"	0.0333	ND	55.7	30-120			
Benzo (a) anthracene	0.0281	0.00500	"	0.0333	0.00208	78.0	30-120			
Benzo (a) pyrene	0.0186	0.00500	"	0.0333	ND	55.9	30-120			
Benzo (b) fluoranthene	0.0166	0.00500	"	0.0333	ND	49.8	30-120			
Benzo (k) fluoranthene	0.0183	0.00500	"	0.0333	ND	54.8	30-120			
Chrysene	0.0267	0.00500	"	0.0333	0.000537	78.4	30-120			
Dibenz (a,h) anthracene	0.0154	0.00500	"	0.0333	ND	46.3	30-120			
Fluoranthene	0.0203	0.00500	"	0.0333	ND	61.0	30-120			
Fluorene	0.0190	0.00500	"	0.0333	ND	57.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0166	0.00500	"	0.0333	ND	49.9	30-120			
Pyrene	0.0272	0.00500	"	0.0333	ND	81.7	35-142			
1-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.6	15-130			
2-Methylnaphthalene	0.0151	0.00500	"	0.0333	ND	45.3	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0199		"	0.0333		59.8	40-150			
Surrogate: Fluoranthene-d10	0.0226		"	0.0333		67.7	40-150			

Matrix Spike Dup (BGD0751-MSD1)

Source: 2304475-01

Prepared & Analyzed: 04/24/23

Acenaphthene	0.0209	0.00500	mg/kg	0.0333	ND	62.8	31-137	12.7	30	
Anthracene	0.0218	0.00500	"	0.0333	ND	65.5	30-120	16.1	30	
Benzo (a) anthracene	0.0334	0.00500	"	0.0333	0.00208	93.9	30-120	17.3	30	
Benzo (a) pyrene	0.0183	0.00500	"	0.0333	ND	54.8	30-120	1.98	30	
Benzo (b) fluoranthene	0.0232	0.00500	"	0.0333	ND	69.7	30-120	33.3	30	QR-02
Benzo (k) fluoranthene	0.0217	0.00500	"	0.0333	ND	65.0	30-120	17.0	30	
Chrysene	0.0290	0.00500	"	0.0333	0.000537	85.3	30-120	8.21	30	
Dibenz (a,h) anthracene	0.0176	0.00500	"	0.0333	ND	52.8	30-120	13.2	30	
Fluoranthene	0.0218	0.00500	"	0.0333	ND	65.5	30-120	7.04	30	
Fluorene	0.0210	0.00500	"	0.0333	ND	63.0	30-120	9.82	30	
Indeno (1,2,3-cd) pyrene	0.0244	0.00500	"	0.0333	ND	73.2	30-120	37.9	30	QR-02
Pyrene	0.0349	0.00500	"	0.0333	ND	105	35-142	24.6	30	
1-Methylnaphthalene	0.0202	0.00500	"	0.0333	ND	60.6	15-130	14.2	50	
2-Methylnaphthalene	0.0178	0.00500	"	0.0333	ND	53.5	15-130	16.7	50	
Surrogate: 2-Methylnaphthalene-d10	0.0208		"	0.0333		62.3	40-150			
Surrogate: Fluoranthene-d10	0.0245		"	0.0333		73.5	40-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 12:50

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
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/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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 26, 2023

Jeb Watts

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: DCP - COAN AT-1-1

Work Order #2304392

Enclosed are the results of analyses for samples received by Summit Scientific on 04/19/23 14:36. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely", is written over a light blue rectangular background.

Scott Sheely For Paul Shrewsbury

President



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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 13:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NW-10'@6'	2304392-01	Soil	04/19/23 11:32	04/19/23 14:36
NE-12'@12'	2304392-02	Soil	04/19/23 11:49	04/19/23 14:36
SE-8'@14'	2304392-03	Soil	04/19/23 12:12	04/19/23 14:36
SW-10'@6'	2304392-04	Soil	04/19/23 12:59	04/19/23 14:36

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SUMMIT SCIENTIFIC

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

Lab ID	Page / of /
2304392	

Client: DCP/Tasman		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave		Project Manager: Chandler Cole; Jeb Watts		Company: DCP	
City/State/Zip: Broomfield, CO, 80020		E-Mail: ccd@dcpudstrom.com; jw@watedpudstrom.com		Project Name/Location: COAN AT-1-1	
Phone: (303) 487-1228		jwatts@dcpudstrom.com - user4550@tasman-gsa.com		AFE#:	
Sampler Name: Wade Scruggs		Project Name: COAN AT-1-1		PO/Billing Codes:	
		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 _____	915 VOLs + TPH	915 PAHs	915 Inorganics																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 13.3	Corrected Temperature	IR gun #: 02	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2364/392Client: DCP Tasman Client Project ID: COAN AT-1-1Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 13.3 Thermometer # 02

	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"/>	
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 checked="" type="checkbox"/>	<input 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.

Levin Joubert
Custodian Printed Name

24-11-23 14
Date/Time



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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 13:28

NW-10'@6'
2304392-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/23 11:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	0.69	0.020	mg/kg	10	BGD0625	04/19/23	04/19/23	EPA 8260B	
Toluene	7.0	0.050	"	"	"	"	"	"	E
Ethylbenzene	7.6	0.050	"	"	"	"	"	"	E
Xylenes (total)	59	0.10	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	21	0.050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	8.9	0.050	"	"	"	"	"	"	E
Naphthalene	5.3	0.038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1000	5.0	"	"	"	"	"	"	

Date Sampled: **04/19/23 11:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0398	99.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0651	163 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.0692	173 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/23 11:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	750	50	mg/kg	1	BGD0626	04/19/23	04/19/23	EPA 8015M	
C28-C36 (ORO)	54	50	"	"	"	"	"	"	

Date Sampled: **04/19/23 11:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	11.9	94.8 %	30-150		"	"	"	"	

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 13:28

NE-12'@12'
2304392-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/23 11:49**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGD0625	04/19/23	04/19/23	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	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/23 11:49**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/23 11:49**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0626	04/19/23	04/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/19/23 11:49**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.5	100 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 13:28

NE-12'@12'
2304392-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/19/23 11:49**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) pyrene	ND	0.00500	mg/kg	1	BGD0751	04/24/23	04/24/23	EPA 8270D SIM	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0127	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0166	0.00500	"	"	"	"	"	"	

Date Sampled: **04/19/23 11:49**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0231	69.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0282	84.5 %	40-150		"	"	"	"	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 13:28

SE-8'@14'
2304392-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/23 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGD0625	04/19/23	04/19/23	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	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/23 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0381	95.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/23 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0626	04/19/23	04/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/19/23 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	14.1	113 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 13:28

SE-8'@14'
2304392-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/19/23 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) pyrene	ND	0.00500	mg/kg	1	BGD0751	04/24/23	04/24/23	EPA 8270D SIM	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.00556	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0212	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0322	0.00500	"	"	"	"	"	"	

Date Sampled: **04/19/23 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0241	72.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0270	81.0 %	40-150		"	"	"	"	

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Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 13:28

SW-10'@6'
2304392-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/23 12:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.41	0.0020	mg/kg	1	BGD0625	04/19/23	04/19/23	EPA 8260B	
Toluene	2.2	0.050	"	10	"	"	"	"	
Ethylbenzene	0.62	0.050	"	"	"	"	"	"	
Xylenes (total)	7.2	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	2.9	0.050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	1.7	0.050	"	"	"	"	"	"	
Naphthalene	1.1	0.038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	230	5.0	"	"	"	"	"	"	

Date Sampled: **04/19/23 12:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0360	90.1 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0422	105 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0328	81.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/23 12:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	77	50	mg/kg	1	BGD0626	04/19/23	04/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/19/23 12:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>	13.3	106 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 13:28

SW-10'@6'
2304392-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/19/23 12:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) pyrene	0.0155	0.00500	mg/kg	1	BGD0751	04/24/23	04/24/23	EPA 8270D SIM	
Benzo (b) fluoranthene	0.00624	0.00500	"	"	"	"	"	"	
Chrysene	0.0131	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0550	0.00500	"	"	"	"	"	"	
Pyrene	0.00969	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.500	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.369	0.00500	"	"	"	"	"	"	E

Date Sampled: **04/19/23 12:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0243	72.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0233	69.9 %	40-150		"	"	"	"	

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Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 13:28

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 BGD0625 - EPA 5030 Soil MS

Blank (BGD0625-BLK1)

Prepared: 04/19/23 Analyzed: 04/20/23

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	0.0418		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0380		"	0.0400		95.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		101	50-150			

LCS (BGD0625-BS1)

Prepared: 04/19/23 Analyzed: 04/20/23

Benzene	0.0775	0.0020	mg/kg	0.100		77.5	70-130			
Toluene	0.0718	0.0050	"	0.100		71.8	70-130			
Ethylbenzene	0.105	0.0050	"	0.100		105	70-130			
m,p-Xylene	0.211	0.010	"	0.200		105	70-130			
o-Xylene	0.0842	0.0050	"	0.100		84.2	70-130			
1,2,4-Trimethylbenzene	0.113	0.0050	"	0.100		113	70-130			
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.100		104	70-130			
Naphthalene	0.0733	0.0038	"	0.100		73.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0328		"	0.0400		81.9	50-150			
Surrogate: Toluene-d8	0.0304		"	0.0400		76.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0316		"	0.0400		79.0	50-150			

Matrix Spike (BGD0625-MS1)

Source: 2304392-03

Prepared: 04/19/23 Analyzed: 04/20/23

Benzene	0.0858	0.0020	mg/kg	0.100	ND	85.8	70-130			
Toluene	0.0997	0.0050	"	0.100	ND	99.7	70-130			
Ethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130			
m,p-Xylene	0.243	0.010	"	0.200	ND	122	70-130			
o-Xylene	0.114	0.0050	"	0.100	ND	114	70-130			
1,2,4-Trimethylbenzene	0.121	0.0050	"	0.100	ND	121	70-130			
1,3,5-Trimethylbenzene	0.122	0.0050	"	0.100	ND	122	70-130			
Naphthalene	0.114	0.0038	"	0.100	ND	114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0357		"	0.0400		89.3	50-150			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	50-150			

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Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 13:28

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 BGD0625 - EPA 5030 Soil MS

Matrix Spike Dup (BGD0625-MSD1)	Source: 2304392-03			Prepared: 04/19/23 Analyzed: 04/20/23						
Benzene	0.0850	0.0020	mg/kg	0.100	ND	85.0	70-130	0.914	30	
Toluene	0.100	0.0050	"	0.100	ND	100	70-130	0.630	30	
Ethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130	4.68	30	
m,p-Xylene	0.227	0.010	"	0.200	ND	114	70-130	6.89	30	
o-Xylene	0.109	0.0050	"	0.100	ND	109	70-130	4.77	30	
1,2,4-Trimethylbenzene	0.125	0.0050	"	0.100	ND	125	70-130	3.15	30	
1,3,5-Trimethylbenzene	0.116	0.0050	"	0.100	ND	116	70-130	5.87	30	
Naphthalene	0.110	0.0038	"	0.100	ND	110	70-130	4.26	30	
Surrogate: 1,2-Dichloroethane-d4	0.0349		"	0.0400		87.2	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.1	50-150			

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Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 13:28

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 BGD0626 - EPA 3550A

Blank (BGD0626-BLK1)

Prepared: 04/19/23 Analyzed: 04/20/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	15.4		"	12.5		123	30-150			

LCS (BGD0626-BS1)

Prepared: 04/19/23 Analyzed: 04/20/23

C10-C28 (DRO)	450	50	mg/kg	500		89.9	70-130			
Surrogate: o-Terphenyl	12.0		"	12.5		96.4	30-150			

Matrix Spike (BGD0626-MS1)

Source: 2304392-03

Prepared: 04/19/23 Analyzed: 04/20/23

C10-C28 (DRO)	412	50	mg/kg	500	47.9	72.7	70-130			
Surrogate: o-Terphenyl	17.0		"	12.5		136	30-150			

Matrix Spike Dup (BGD0626-MSD1)

Source: 2304392-03

Prepared: 04/19/23 Analyzed: 04/20/23

C10-C28 (DRO)	412	50	mg/kg	500	47.9	72.9	70-130	0.154	20	
Surrogate: o-Terphenyl	18.4		"	12.5		147	30-150			

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Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 13:28

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0751 - EPA 5030 Soil MS

Blank (BGD0751-BLK1)

Prepared & Analyzed: 04/24/23

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	0.0331		"	0.0333		99.2	40-150			
Surrogate: Fluoranthene-d10	0.0347		"	0.0333		104	40-150			

LCS (BGD0751-BS1)

Prepared & Analyzed: 04/24/23

Acenaphthene	0.0308	0.00500	mg/kg	0.0333		92.4	31-137			
Anthracene	0.0299	0.00500	"	0.0333		89.6	30-120			
Benzo (a) anthracene	0.0287	0.00500	"	0.0333		86.1	30-120			
Benzo (a) pyrene	0.0294	0.00500	"	0.0333		88.3	30-120			
Benzo (b) fluoranthene	0.0331	0.00500	"	0.0333		99.2	30-120			
Benzo (k) fluoranthene	0.0315	0.00500	"	0.0333		94.5	30-120			
Chrysene	0.0345	0.00500	"	0.0333		103	30-120			
Dibenz (a,h) anthracene	0.0326	0.00500	"	0.0333		97.7	30-120			
Fluoranthene	0.0296	0.00500	"	0.0333		88.8	30-120			
Fluorene	0.0295	0.00500	"	0.0333		88.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0352	0.00500	"	0.0333		106	30-120			
Pyrene	0.0379	0.00500	"	0.0333		114	35-142			
1-Methylnaphthalene	0.0267	0.00500	"	0.0333		80.1	35-142			
2-Methylnaphthalene	0.0308	0.00500	"	0.0333		92.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0262		"	0.0333		78.6	40-150			
Surrogate: Fluoranthene-d10	0.0301		"	0.0333		90.2	40-150			

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Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 13:28

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0751 - EPA 5030 Soil MS

Matrix Spike (BGD0751-MS1)

Source: 2304475-01

Prepared & Analyzed: 04/24/23

Acenaphthene	0.0184	0.00500	mg/kg	0.0333	ND	55.3	31-137			
Anthracene	0.0186	0.00500	"	0.0333	ND	55.7	30-120			
Benzo (a) anthracene	0.0281	0.00500	"	0.0333	0.00208	78.0	30-120			
Benzo (a) pyrene	0.0186	0.00500	"	0.0333	ND	55.9	30-120			
Benzo (b) fluoranthene	0.0166	0.00500	"	0.0333	ND	49.8	30-120			
Benzo (k) fluoranthene	0.0183	0.00500	"	0.0333	ND	54.8	30-120			
Chrysene	0.0267	0.00500	"	0.0333	0.000537	78.4	30-120			
Dibenz (a,h) anthracene	0.0154	0.00500	"	0.0333	ND	46.3	30-120			
Fluoranthene	0.0203	0.00500	"	0.0333	ND	61.0	30-120			
Fluorene	0.0190	0.00500	"	0.0333	ND	57.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0166	0.00500	"	0.0333	ND	49.9	30-120			
Pyrene	0.0272	0.00500	"	0.0333	ND	81.7	35-142			
1-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.6	15-130			
2-Methylnaphthalene	0.0151	0.00500	"	0.0333	ND	45.3	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0199		"	0.0333		59.8	40-150			
Surrogate: Fluoranthene-d10	0.0226		"	0.0333		67.7	40-150			

Matrix Spike Dup (BGD0751-MSD1)

Source: 2304475-01

Prepared & Analyzed: 04/24/23

Acenaphthene	0.0209	0.00500	mg/kg	0.0333	ND	62.8	31-137	12.7	30	
Anthracene	0.0218	0.00500	"	0.0333	ND	65.5	30-120	16.1	30	
Benzo (a) anthracene	0.0334	0.00500	"	0.0333	0.00208	93.9	30-120	17.3	30	
Benzo (a) pyrene	0.0183	0.00500	"	0.0333	ND	54.8	30-120	1.98	30	
Benzo (b) fluoranthene	0.0232	0.00500	"	0.0333	ND	69.7	30-120	33.3	30	QR-02
Benzo (k) fluoranthene	0.0217	0.00500	"	0.0333	ND	65.0	30-120	17.0	30	
Chrysene	0.0290	0.00500	"	0.0333	0.000537	85.3	30-120	8.21	30	
Dibenz (a,h) anthracene	0.0176	0.00500	"	0.0333	ND	52.8	30-120	13.2	30	
Fluoranthene	0.0218	0.00500	"	0.0333	ND	65.5	30-120	7.04	30	
Fluorene	0.0210	0.00500	"	0.0333	ND	63.0	30-120	9.82	30	
Indeno (1,2,3-cd) pyrene	0.0244	0.00500	"	0.0333	ND	73.2	30-120	37.9	30	QR-02
Pyrene	0.0349	0.00500	"	0.0333	ND	105	35-142	24.6	30	
1-Methylnaphthalene	0.0202	0.00500	"	0.0333	ND	60.6	15-130	14.2	50	
2-Methylnaphthalene	0.0178	0.00500	"	0.0333	ND	53.5	15-130	16.7	50	
Surrogate: 2-Methylnaphthalene-d10	0.0208		"	0.0333		62.3	40-150			
Surrogate: Fluoranthene-d10	0.0245		"	0.0333		73.5	40-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
04/26/23 13:28

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
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.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 26, 2023

Chandler Cole

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: DCP - COAN AT-1-1

Work Order #2304446

Enclosed are the results of analyses for samples received by Summit Scientific on 04/20/23 15:51. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mikayla Axtell", is written over a light gray rectangular background.

Mikayla Axtell For Paul Shrewsbury

President



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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/26/23 16:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Source@20'	2304446-01	Soil	04/20/23 07:38	04/20/23 15:51
Source@26'	2304446-02	Soil	04/20/23 08:27	04/20/23 15:51
NW-12'@14'	2304446-03	Soil	04/20/23 09:09	04/20/23 15:51
SW-15'@8'	2304446-04	Soil	04/20/23 09:38	04/20/23 15:51

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

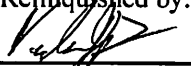
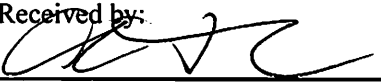
SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2304446	

Client: DCP/TASMAN		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave.		Project Manager: JEB WATTS / CHANDLER COLE		Company: DCP	
City/State/Zip: Broomfield, CO, 80020		E-Mail: jeb.watts@dcpsummit.com; stephen.w.watts@p66.com		Project Name/Location: COAN AT-1-1	
Phone: 303-487-1228		vscruggs@tasmangpa.com; jwatts@tasmangpa.com		AFE#:	
Sampler Name: VADE SCRUGGS		Project Name: COAN AT-1-1		PO/Billing Codes:	
		Project Number:		Contact: Chandler Cole	

					Preservative				Matrix			Analysis Requested						Special Instructions
ID	Sample Description	Date Sampled 4/20/23	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915 VOCs + TPH	915 PAHs	915 Inorganics			
1	Source @ 20'	0738	0738	2			X			X			X	X	H			★ 915 PAHs only: Benz(a)pyrene Benz(b)fluoranthene Chrysene Fluoranthene Phenanthrene 1+2-methyl naphthalene
2	Source @ 26'	4/20/23	0827	2			X			X			X	X	H			
3	NW-12' @ 14'	4/20/23	0909	2			X			X			X	X	H			@ 14'
4	SW-15' @ 8'	4/20/23	0938	2			X			X			X	X	H			
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: 	Date/Time: 4/20/23 1551	Received by:	Date/Time:	TAT Business Days	Field DO	Notes: Data requested by 7 am 4/24 (Monday)
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days <input checked="" type="checkbox"/>	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by: 	Date/Time: 4-20-23 1551	Standard	Field Turb.	
Temperature Upon Receipt: 4.2	Corrected Temperature	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 230444b

Client: DXP/tasman Client Project ID: Coan AT-1-1Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 4.2 Thermometer # 2

	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"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2+ 48hr
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 type="checkbox"/>	<input checked="" 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.
AT
Custodian Printed Name

4.20.23
Date/Time



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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/26/23 16:50

Source@20'
2304446-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/20/23 07:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	4.3	0.020		mg/kg	10	BGD0690	04/21/23	04/22/23	EPA 8260B	
Toluene	27	0.050		"	"	"	"	"	"	E
Ethylbenzene	8.5	0.050		"	"	"	"	"	"	E
Xylenes (total)	44	0.10		"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	22	0.050		"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	7.0	0.050		"	"	"	"	"	"	E
Naphthalene	5.1	0.038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1400	5.0		"	"	"	"	"	"	E

Date Sampled: **04/20/23 07:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0597	149 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0358	89.5 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0759	190 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/20/23 07:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	4300	50		mg/kg	1	BGD0693	04/21/23	04/22/23	EPA 8015M	
C28-C36 (ORO)	260	50		"	"	"	"	"	"	

Date Sampled: **04/20/23 07:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	19.8	159 %		30-150		"	"	"	"	S-02

PAH by EPA Method 8270D SIM

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: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/26/23 16:50

Source@20'
2304446-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/20/23 07:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) pyrene	0.661	0.0500	mg/kg	10	BGD0704	04/21/23	04/22/23	EPA 8270D SIM	
Benzo (b) fluoranthene	0.273	0.0500	"	"	"	"	"	"	
Chrysene	0.892	0.0500	"	"	"	"	"	"	
Fluoranthene	0.547	0.0500	"	"	"	"	"	"	
Fluorene	1.57	0.0500	"	"	"	"	"	"	
Pyrene	0.800	0.0500	"	"	"	"	"	"	
1-Methylnaphthalene	9.24	0.0500	"	"	"	"	"	"	E
2-Methylnaphthalene	16.7	0.0500	"	"	"	"	"	"	E

Date Sampled: **04/20/23 07:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0316	94.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0387	116 %	40-150		"	"	"	"	

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/26/23 16:50

Source@26'
2304446-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/20/23 08:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.026	0.0020	mg/kg	1	BGD0690	04/21/23	04/22/23	EPA 8260B	
Toluene	0.023	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.029	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0077	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.020	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.69	0.50	"	"	"	"	"	"	

Date Sampled: **04/20/23 08:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0448	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0363	90.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0511	128 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/20/23 08:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0693	04/21/23	04/22/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/20/23 08:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.1	97.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/26/23 16:50

Source@26'
2304446-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/20/23 08:27**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) pyrene	ND	0.00500	mg/kg	1	BGD0704	04/21/23	04/22/23	EPA 8270D SIM	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/20/23 08:27**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0313	94.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0248	74.5 %	40-150		"	"	"	"	

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/26/23 16:50

NW-12'@14'
2304446-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/20/23 09:09**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGD0690	04/21/23	04/22/23	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	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/20/23 09:09**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0442	110 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0380	95.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0437	109 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/20/23 09:09**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0693	04/21/23	04/22/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/20/23 09:09**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.2	89.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/26/23 16:50

NW-12'@14'
2304446-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/20/23 09:09**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) pyrene	ND	0.00500	mg/kg	1	BGD0704	04/21/23	04/22/23	EPA 8270D SIM	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/20/23 09:09**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0256	76.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0228	68.4 %	40-150		"	"	"	"	

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/26/23 16:50

SW-15'@8'
2304446-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/20/23 09:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.0068	0.0020	mg/kg	1	BGD0690	04/21/23	04/22/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.028	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.035	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.038	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/20/23 09:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0475	119 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/20/23 09:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0693	04/21/23	04/22/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/20/23 09:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.2	81.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/26/23 16:50

SW-15'@8'
2304446-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/20/23 09:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) pyrene	ND	0.00500	mg/kg	1	BGD0704	04/21/23	04/22/23	EPA 8270D SIM	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0235	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0202	0.00500	"	"	"	"	"	"	

Date Sampled: **04/20/23 09:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0270	80.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0256	76.9 %	40-150		"	"	"	"	

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/26/23 16:50

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 BGD0690 - EPA 5030 Soil MS

Blank (BGD0690-BLK1)

Prepared & Analyzed: 04/21/23

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	0.0424		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0423		"	0.0400		106	50-150			

LCS (BGD0690-BS1)

Prepared & Analyzed: 04/21/23

Benzene	0.0963	0.0020	mg/kg	0.100		96.3	70-130			
Toluene	0.0892	0.0050	"	0.100		89.2	70-130			
Ethylbenzene	0.0836	0.0050	"	0.100		83.6	70-130			
m,p-Xylene	0.191	0.010	"	0.200		95.4	70-130			
o-Xylene	0.0804	0.0050	"	0.100		80.4	70-130			
1,2,4-Trimethylbenzene	0.0947	0.0050	"	0.100		94.7	70-130			
1,3,5-Trimethylbenzene	0.0920	0.0050	"	0.100		92.0	70-130			
Naphthalene	0.0870	0.0038	"	0.100		87.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0458		"	0.0400		114	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	50-150			

Matrix Spike (BGD0690-MS1)

Source: 2304401-01

Prepared & Analyzed: 04/21/23

Benzene	0.0950	0.0020	mg/kg	0.100	ND	95.0	70-130			
Toluene	0.0919	0.0050	"	0.100	ND	91.9	70-130			
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130			
m,p-Xylene	0.216	0.010	"	0.200	ND	108	70-130			
o-Xylene	0.107	0.0050	"	0.100	ND	107	70-130			
1,2,4-Trimethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130			
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130			
Naphthalene	0.117	0.0038	"	0.100	ND	117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0427		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/26/23 16:50

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 BGD0690 - EPA 5030 Soil MS

Matrix Spike Dup (BGD0690-MSD1)		Source: 2304401-01			Prepared & Analyzed: 04/21/23					
Benzene	0.0939	0.0020	mg/kg	0.100	ND	93.9	70-130	1.21	30	
Toluene	0.0885	0.0050	"	0.100	ND	88.5	70-130	3.76	30	
Ethylbenzene	0.112	0.0050	"	0.100	ND	112	70-130	5.83	30	
m,p-Xylene	0.207	0.010	"	0.200	ND	104	70-130	3.93	30	
o-Xylene	0.113	0.0050	"	0.100	ND	113	70-130	5.37	30	
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	10.6	30	
1,3,5-Trimethylbenzene	0.0987	0.0050	"	0.100	ND	98.7	70-130	4.66	30	
Naphthalene	0.0977	0.0038	"	0.100	ND	97.7	70-130	18.0	30	
Surrogate: 1,2-Dichloroethane-d4		0.0460	"	0.0400		115	50-150			
Surrogate: Toluene-d8		0.0395	"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene		0.0396	"	0.0400		98.9	50-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/26/23 16:50

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 BGD0693 - EPA 3550A

Blank (BGD0693-BLK1)

Prepared & Analyzed: 04/21/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	13.2		"	12.5		106	30-150			

LCS (BGD0693-BS1)

Prepared & Analyzed: 04/21/23

C10-C28 (DRO)	474	50	mg/kg	500		94.8	70-130			
Surrogate: o-Terphenyl	14.8		"	12.5		118	30-150			

Matrix Spike (BGD0693-MS1)

Source: 2304401-01

Prepared & Analyzed: 04/21/23

C10-C28 (DRO)	471	50	mg/kg	500	ND	94.2	70-130			
Surrogate: o-Terphenyl	11.2		"	12.5		89.6	30-150			

Matrix Spike Dup (BGD0693-MSD1)

Source: 2304401-01

Prepared & Analyzed: 04/21/23

C10-C28 (DRO)	512	50	mg/kg	500	ND	102	70-130	8.31	20	
Surrogate: o-Terphenyl	11.8		"	12.5		94.6	30-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/26/23 16:50

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0704 - EPA 5030 Soil MS

Blank (BGD0704-BLK1)

Prepared: 04/21/23 Analyzed: 04/22/23

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	0.0351		"	0.0333		105	40-150			
Surrogate: Fluoranthene-d10	0.0327		"	0.0333		98.0	40-150			

LCS (BGD0704-BS1)

Prepared: 04/21/23 Analyzed: 04/22/23

Acenaphthene	0.0314	0.00500	mg/kg	0.0333	94.2	31-137
Anthracene	0.0341	0.00500	"	0.0333	102	30-120
Benzo (a) anthracene	0.0290	0.00500	"	0.0333	86.9	30-120
Benzo (a) pyrene	0.0260	0.00500	"	0.0333	78.1	30-120
Benzo (b) fluoranthene	0.0321	0.00500	"	0.0333	96.3	30-120
Benzo (k) fluoranthene	0.0382	0.00500	"	0.0333	114	30-120
Chrysene	0.0316	0.00500	"	0.0333	94.8	30-120
Dibenz (a,h) anthracene	0.0176	0.00500	"	0.0333	52.8	30-120
Fluoranthene	0.0358	0.00500	"	0.0333	107	30-120
Fluorene	0.0335	0.00500	"	0.0333	101	30-120
Indeno (1,2,3-cd) pyrene	0.0173	0.00500	"	0.0333	51.9	30-120
Pyrene	0.0373	0.00500	"	0.0333	112	35-142
1-Methylnaphthalene	0.0305	0.00500	"	0.0333	91.5	35-142
2-Methylnaphthalene	0.0351	0.00500	"	0.0333	105	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0325		"	0.0333	97.4	40-150
Surrogate: Fluoranthene-d10	0.0376		"	0.0333	113	40-150

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/26/23 16:50

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0704 - EPA 5030 Soil MS

Matrix Spike (BGD0704-MS1)

Source: 2304258-02

Prepared: 04/21/23 Analyzed: 04/22/23

Acenaphthene	0.0225	0.00500	mg/kg	0.0333	ND	67.4	31-137		
Anthracene	0.0266	0.00500	"	0.0333	ND	79.9	30-120		
Benzo (a) anthracene	0.0233	0.00500	"	0.0333	ND	70.0	30-120		
Benzo (a) pyrene	0.0234	0.00500	"	0.0333	ND	70.2	30-120		
Benzo (b) fluoranthene	0.0253	0.00500	"	0.0333	ND	76.0	30-120		
Benzo (k) fluoranthene	0.0354	0.00500	"	0.0333	ND	106	30-120		
Chrysene	0.0249	0.00500	"	0.0333	ND	74.7	30-120		
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.8	30-120		
Fluoranthene	0.0280	0.00500	"	0.0333	ND	84.1	30-120		
Fluorene	0.0249	0.00500	"	0.0333	ND	74.8	30-120		
Indeno (1,2,3-cd) pyrene	0.0139	0.00500	"	0.0333	ND	41.8	30-120		
Pyrene	0.0299	0.00500	"	0.0333	ND	89.7	35-142		
1-Methylnaphthalene	0.0267	0.00500	"	0.0333	ND	80.2	15-130		
2-Methylnaphthalene	0.0286	0.00500	"	0.0333	ND	85.8	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0285		"	0.0333		85.6	40-150		
Surrogate: Fluoranthene-d10	0.0300		"	0.0333		90.0	40-150		

Matrix Spike Dup (BGD0704-MSD1)

Source: 2304258-02

Prepared: 04/21/23 Analyzed: 04/22/23

Acenaphthene	0.0264	0.00500	mg/kg	0.0333	ND	79.3	31-137	16.3	30
Anthracene	0.0277	0.00500	"	0.0333	ND	83.0	30-120	3.83	30
Benzo (a) anthracene	0.0237	0.00500	"	0.0333	ND	71.2	30-120	1.70	30
Benzo (a) pyrene	0.0208	0.00500	"	0.0333	ND	62.4	30-120	11.8	30
Benzo (b) fluoranthene	0.0262	0.00500	"	0.0333	ND	78.6	30-120	3.39	30
Benzo (k) fluoranthene	0.0359	0.00500	"	0.0333	ND	108	30-120	1.62	30
Chrysene	0.0254	0.00500	"	0.0333	ND	76.3	30-120	2.11	30
Dibenz (a,h) anthracene	0.0139	0.00500	"	0.0333	ND	41.8	30-120	11.3	30
Fluoranthene	0.0291	0.00500	"	0.0333	ND	87.3	30-120	3.75	30
Fluorene	0.0266	0.00500	"	0.0333	ND	79.7	30-120	6.45	30
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	6.45	30
Pyrene	0.0305	0.00500	"	0.0333	ND	91.5	35-142	2.00	30
1-Methylnaphthalene	0.0290	0.00500	"	0.0333	ND	87.0	15-130	8.13	50
2-Methylnaphthalene	0.0293	0.00500	"	0.0333	ND	87.8	15-130	2.31	50
Surrogate: 2-Methylnaphthalene-d10	0.0298		"	0.0333		89.4	40-150		
Surrogate: Fluoranthene-d10	0.0295		"	0.0333		88.4	40-150		

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/26/23 16:50

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 25, 2023

Chandler Cole

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: DCP - COAN AT-1-1

Work Order #2304517

Enclosed are the results of analyses for samples received by Summit Scientific on 04/24/23 17:43. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury

President



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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/25/23 06:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Source@35'	2304517-01	Soil	04/24/23 13:56	04/24/23 17:43

Summit Scientific

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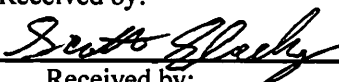
SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
517	

Client: DCP/Tasman		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave		Project Manager: Chandler Cole / Jpb Watts		Company: DCP	
City/State/Zip: Broomfield CO 80020		E-Mail: cecole@dcponline.com; jpwatts@dcponline.com		Project Name/Location: CO94 AT-1-1	
Phone: 303 487 1128		Project Name: CO94 AT-1-1		AFE#:	
Sampler Name: VADE SCRUGGS		Project Number:		PO/Billing Codes:	
				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 _____	915 VOCs & TPH	915 PAHs	915 Inorganics																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

Relinquished by: 	Date/Time: 1742 4/24/23	Received by: 	Date/Time: 4/24/23 1743	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day <input type="checkbox"/>	Field ORP	
				2 Days <input type="checkbox"/>	Field pH	
				3 Days <input type="checkbox"/>	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard <input type="checkbox"/>	Field Turb.	
Temperature Upon Receipt: 7.1	Corrected Temperature: 5.4/23	IR gun #: 02	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2304517Client: DCP/Tasman Client Project ID: 541413
GOAT COAU AT-1-1Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐☒ ☐ ☐ ☐ ☐Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐

Temp (°C)

7.1

Thermometer #

02

	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"/>	<u>On Ice</u>
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Same day</u>
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 type="checkbox"/>	<input checked="" 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.				


 Custodian Printed Name

4/24/23 1743
 Date/Time



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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/25/23 06:17

Source@35'
2304517-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/24/23 13:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	0.016	0.0020		mg/kg	1	BGD0807	04/24/23	04/24/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	0.026	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		"	"	"	"	"	"	

Date Sampled: **04/24/23 13:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0566	141 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0338	84.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.5 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/24/23 13:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGD0808	04/24/23	04/24/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/24/23 13:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.4	90.8 %		30-150		"	"	"	"	

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: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/25/23 06:17

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 BGD0807 - EPA 5030 Soil MS

Blank (BGD0807-BLK1)

Prepared: 04/24/23 Analyzed: 04/25/23

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	0.0399		"	0.0400		99.7	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		97.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	50-150			

LCS (BGD0807-BS1)

Prepared: 04/24/23 Analyzed: 04/25/23

Benzene	0.0789	0.0020	mg/kg	0.100		78.9	70-130			
Toluene	0.0900	0.0050	"	0.100		90.0	70-130			
Ethylbenzene	0.108	0.0050	"	0.100		108	70-130			
m,p-Xylene	0.219	0.010	"	0.200		110	70-130			
o-Xylene	0.130	0.0050	"	0.100		130	70-130			
1,2,4-Trimethylbenzene	0.112	0.0050	"	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.115	0.0050	"	0.100		115	70-130			
Naphthalene	0.0934	0.0038	"	0.100		93.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0351		"	0.0400		87.8	50-150			
Surrogate: Toluene-d8	0.0386		"	0.0400		96.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		101	50-150			

Matrix Spike (BGD0807-MS1)

Source: 2304514-01

Prepared: 04/24/23 Analyzed: 04/25/23

Benzene	0.0926	0.0020	mg/kg	0.100	ND	92.6	70-130			
Toluene	0.102	0.0050	"	0.100	ND	102	70-130			
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130			
m,p-Xylene	0.222	0.010	"	0.200	ND	111	70-130			
o-Xylene	0.105	0.0050	"	0.100	ND	105	70-130			
1,2,4-Trimethylbenzene	0.112	0.0050	"	0.100	ND	112	70-130			
1,3,5-Trimethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130			
Naphthalene	0.0785	0.0038	"	0.100	ND	78.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0350		"	0.0400		87.4	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		97.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0370		"	0.0400		92.6	50-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/25/23 06:17

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 BGD0807 - EPA 5030 Soil MS

Matrix Spike Dup (BGD0807-MSD1)		Source: 2304514-01			Prepared: 04/24/23 Analyzed: 04/25/23					
Benzene	0.0882	0.0020	mg/kg	0.100	ND	88.2	70-130	4.81	30	
Toluene	0.124	0.0050	"	0.100	ND	124	70-130	19.2	30	
Ethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130	2.30	30	
m,p-Xylene	0.225	0.010	"	0.200	ND	113	70-130	1.40	30	
o-Xylene	0.106	0.0050	"	0.100	ND	106	70-130	0.912	30	
1,2,4-Trimethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130	0.836	30	
1,3,5-Trimethylbenzene	0.115	0.0050	"	0.100	ND	115	70-130	1.98	30	
Naphthalene	0.0807	0.0038	"	0.100	ND	80.7	70-130	2.79	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0328		"	0.0400		82.1	50-150			
Surrogate: Toluene-d8	0.0475		"	0.0400		119	50-150			
Surrogate: 4-Bromofluorobenzene	0.0378		"	0.0400		94.6	50-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/25/23 06:17

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 BGD0808 - EPA 3550A

Blank (BGD0808-BLK1)

Prepared: 04/24/23 Analyzed: 04/25/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	16.4		"	12.5		132	30-150			

LCS (BGD0808-BS1)

Prepared: 04/24/23 Analyzed: 04/25/23

C10-C28 (DRO)	514	50	mg/kg	500		103	70-130			
Surrogate: o-Terphenyl	15.8		"	12.5		126	30-150			

Matrix Spike (BGD0808-MS1)

Source: 2304514-01

Prepared: 04/24/23 Analyzed: 04/25/23

C10-C28 (DRO)	506	50	mg/kg	500	47.2	91.8	70-130			
Surrogate: o-Terphenyl	17.4		"	12.5		139	30-150			

Matrix Spike Dup (BGD0808-MSD1)

Source: 2304514-01

Prepared: 04/24/23 Analyzed: 04/25/23

C10-C28 (DRO)	559	50	mg/kg	500	47.2	102	70-130	9.94	20	
Surrogate: o-Terphenyl	12.8		"	12.5		103	30-150			

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: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
04/25/23 06:17

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 02, 2023

Jeb Watts

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: DCP - COAN AT-1-1

Work Order #2304529

Enclosed are the results of analyses for samples received by Summit Scientific on 04/25/23 15:58. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely", is written over a light blue rectangular background.

Scott Sheely For Paul Shrewsbury

President



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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
05/02/23 14:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Source@37'	2304529-01	Soil	04/25/23 11:15	04/25/23 15:58
SW-24'@16'	2304529-02	Soil	04/25/23 13:18	04/25/23 15:58

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2304529	

Client: DCP/Tasman		Send Data To:		Send Invoice To:	
Address: 6895 W. 119th Ave.		Project Manager: Jpb Watters/Chandler Gole		Company: DCP	
City/State/Zip: Broomfield CO 80020		E-Mail: DCP/Tasman dfto list		Project Name/Location: Coan AT-1-1	
Phone: 303 487 1228		Project Name: Coan AT-1-1		AFE#:	
Sampler Name: Vadole Scruggs		Project Number:		PO/Billing Codes:	
				Contact: Chandler Gole	

				Preservative				Matrix				Analysis Requested				Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915	915	915	H = hold
1	Source @ 37'	4/12/23	1115	2			X			X			X	H	H	
2	SW-24' @ 16'	4/12/23	1318	2			X			X			X	H	H	
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

Relinquished by: <i>Vadole</i>	Date/Time: 4/12/23 1557	Received by: <i>Scott Shuck</i>	Date/Time: 4/12/23 1558	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 3.8	Corrected Temperature	IR gun #: 02	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2304529Client: DCP/Tasman Client Project ID: Coah AT-1-1Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 3.8 Thermometer # 02

	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"/>	<i>on Ice</i>
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>same day</i>
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 type="checkbox"/>	<input checked="" 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.

 Custodian Printed Name

4/25/23 1558
 Date/Time



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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
05/02/23 14:41

Source@37'
2304529-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/25/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGD0848	04/25/23	04/25/23	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	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/25/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0434	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0414	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0422	106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/25/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0849	"	04/25/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/25/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	16.7	133 %	30-150		"	"	04/25/23	"	

PAH by EPA Method 8270D SIM

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: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
05/02/23 14:41

Source@37'
2304529-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/25/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) pyrene	ND	0.00500	mg/kg	1	BGD0910	04/27/23	04/27/23	EPA 8270D SIM	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/25/23 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0244	73.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0268	80.4 %	40-150		"	"	"	"	

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
05/02/23 14:41

SW-24'@16'
2304529-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/25/23 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGD0848	04/25/23	04/25/23	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	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/25/23 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0382	95.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0384	96.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/25/23 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGD0849	"	04/25/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/25/23 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	16.7	133 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
05/02/23 14:41

SW-24'@16'
2304529-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/25/23 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) pyrene	ND	0.00500	mg/kg	1	BGD0910	04/27/23	04/27/23	EPA 8270D SIM	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/25/23 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0180	54.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0204	61.1 %	40-150		"	"	"	"	

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
05/02/23 14:41

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 BGD0848 - EPA 5030 Soil MS

Blank (BGD0848-BLK1)

Prepared: 04/25/23 Analyzed: 04/26/23

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	0.0422		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0438		"	0.0400		110	50-150			

LCS (BGD0848-BS1)

Prepared: 04/25/23 Analyzed: 04/26/23

Benzene	0.0803	0.0020	mg/kg	0.100		80.3	70-130			
Toluene	0.0851	0.0050	"	0.100		85.1	70-130			
Ethylbenzene	0.110	0.0050	"	0.100		110	70-130			
m,p-Xylene	0.256	0.010	"	0.200		128	70-130			
o-Xylene	0.113	0.0050	"	0.100		113	70-130			
1,2,4-Trimethylbenzene	0.126	0.0050	"	0.100		126	70-130			
1,3,5-Trimethylbenzene	0.118	0.0050	"	0.100		118	70-130			
Naphthalene	0.0970	0.0038	"	0.100		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0342		"	0.0400		85.6	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0364		"	0.0400		90.9	50-150			

Matrix Spike (BGD0848-MS1)

Source: 2304529-01

Prepared: 04/25/23 Analyzed: 04/26/23

Benzene	0.0768	0.0020	mg/kg	0.100	ND	76.8	70-130			
Toluene	0.118	0.0050	"	0.100	ND	118	70-130			
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130			
m,p-Xylene	0.216	0.010	"	0.200	ND	108	70-130			
o-Xylene	0.0901	0.0050	"	0.100	ND	90.1	70-130			
1,2,4-Trimethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130			
1,3,5-Trimethylbenzene	0.117	0.0050	"	0.100	ND	117	70-130			
Naphthalene	0.0982	0.0038	"	0.100	ND	98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0313		"	0.0400		78.2	50-150			
Surrogate: Toluene-d8	0.0525		"	0.0400		131	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	50-150			

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: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
05/02/23 14:41

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 BGD0848 - EPA 5030 Soil MS

Matrix Spike Dup (BGD0848-MSD1)	Source: 2304529-01			Prepared: 04/25/23 Analyzed: 04/26/23						
Benzene	0.0813	0.0020	mg/kg	0.100	ND	81.3	70-130	5.77	30	
Toluene	0.0976	0.0050	"	0.100	ND	97.6	70-130	19.1	30	
Ethylbenzene	0.121	0.0050	"	0.100	ND	121	70-130	14.3	30	
m,p-Xylene	0.241	0.010	"	0.200	ND	120	70-130	10.8	30	
o-Xylene	0.115	0.0050	"	0.100	ND	115	70-130	24.2	30	
1,2,4-Trimethylbenzene	0.0936	0.0050	"	0.100	ND	93.6	70-130	14.3	30	
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	15.0	30	
Naphthalene	0.0811	0.0038	"	0.100	ND	81.1	70-130	19.2	30	
Surrogate: 1,2-Dichloroethane-d4	0.0335		"	0.0400		83.8	50-150			
Surrogate: Toluene-d8	0.0363		"	0.0400		90.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0437		"	0.0400		109	50-150			

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: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
05/02/23 14:41

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 BGD0849 - EPA 3550A

Blank (BGD0849-BLK1)

Prepared: 04/25/23 Analyzed: 04/26/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	15.6		"	12.5		125	30-150			

LCS (BGD0849-BS1)

Prepared: 04/25/23 Analyzed: 04/26/23

C10-C28 (DRO)	541	50	mg/kg	500		108	70-130			
Surrogate: o-Terphenyl	16.6		"	12.5		132	30-150			

Matrix Spike (BGD0849-MS1)

Source: 2304529-01

Prepared: 04/25/23 Analyzed: 04/26/23

C10-C28 (DRO)	488	50	mg/kg	500	30.2	91.5	70-130			
Surrogate: o-Terphenyl	12.2		"	12.5		97.7	30-150			

Matrix Spike Dup (BGD0849-MSD1)

Source: 2304529-01

Prepared: 04/25/23 Analyzed: 04/26/23

C10-C28 (DRO)	579	50	mg/kg	500	30.2	110	70-130	17.1	20	
Surrogate: o-Terphenyl	13.8		"	12.5		111	30-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
05/02/23 14:41

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0910 - EPA 5030 Soil MS

Blank (BGD0910-BLK1)

Prepared & Analyzed: 04/27/23

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	0.0257		"	0.0333		77.2	40-150			
Surrogate: Fluoranthene-d10	0.0366		"	0.0333		110	40-150			

LCS (BGD0910-BS1)

Prepared & Analyzed: 04/27/23

Acenaphthene	0.0333	0.00500	mg/kg	0.0333		99.9	31-137			
Anthracene	0.0342	0.00500	"	0.0333		103	30-120			
Benzo (a) anthracene	0.0349	0.00500	"	0.0333		105	30-120			
Benzo (a) pyrene	0.0338	0.00500	"	0.0333		101	30-120			
Benzo (b) fluoranthene	0.0331	0.00500	"	0.0333		99.3	30-120			
Benzo (k) fluoranthene	0.0354	0.00500	"	0.0333		106	30-120			
Chrysene	0.0366	0.00500	"	0.0333		110	30-120			
Dibenz (a,h) anthracene	0.0301	0.00500	"	0.0333		90.3	30-120			
Fluoranthene	0.0352	0.00500	"	0.0333		106	30-120			
Fluorene	0.0337	0.00500	"	0.0333		101	30-120			
Indeno (1,2,3-cd) pyrene	0.0322	0.00500	"	0.0333		96.5	30-120			
Pyrene	0.0369	0.00500	"	0.0333		111	35-142			
1-Methylnaphthalene	0.0276	0.00500	"	0.0333		82.7	35-142			
2-Methylnaphthalene	0.0321	0.00500	"	0.0333		96.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0292		"	0.0333		87.6	40-150			
Surrogate: Fluoranthene-d10	0.0356		"	0.0333		107	40-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
05/02/23 14:41

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0910 - EPA 5030 Soil MS

Matrix Spike (BGD0910-MS1)

Source: 2304529-01

Prepared & Analyzed: 04/27/23

Acenaphthene	0.0215	0.00500	mg/kg	0.0333	ND	64.4	31-137		
Anthracene	0.0227	0.00500	"	0.0333	ND	68.2	30-120		
Benzo (a) anthracene	0.0235	0.00500	"	0.0333	ND	70.4	30-120		
Benzo (a) pyrene	0.0223	0.00500	"	0.0333	ND	67.0	30-120		
Benzo (b) fluoranthene	0.0214	0.00500	"	0.0333	ND	64.3	30-120		
Benzo (k) fluoranthene	0.0228	0.00500	"	0.0333	ND	68.4	30-120		
Chrysene	0.0244	0.00500	"	0.0333	ND	73.1	30-120		
Dibenz (a,h) anthracene	0.0189	0.00500	"	0.0333	ND	56.6	30-120		
Fluoranthene	0.0233	0.00500	"	0.0333	ND	69.8	30-120		
Fluorene	0.0220	0.00500	"	0.0333	ND	65.9	30-120		
Indeno (1,2,3-cd) pyrene	0.0208	0.00500	"	0.0333	ND	62.3	30-120		
Pyrene	0.0253	0.00500	"	0.0333	ND	75.9	35-142		
1-Methylnaphthalene	0.0193	0.00500	"	0.0333	ND	57.9	15-130		
2-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.8	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0191		"	0.0333		57.4	40-150		
Surrogate: Fluoranthene-d10	0.0244		"	0.0333		73.1	40-150		

Matrix Spike Dup (BGD0910-MSD1)

Source: 2304529-01

Prepared & Analyzed: 04/27/23

Acenaphthene	0.0228	0.00500	mg/kg	0.0333	ND	68.4	31-137	6.00	30
Anthracene	0.0248	0.00500	"	0.0333	ND	74.4	30-120	8.69	30
Benzo (a) anthracene	0.0250	0.00500	"	0.0333	ND	74.9	30-120	6.11	30
Benzo (a) pyrene	0.0242	0.00500	"	0.0333	ND	72.7	30-120	8.23	30
Benzo (b) fluoranthene	0.0227	0.00500	"	0.0333	ND	68.1	30-120	5.79	30
Benzo (k) fluoranthene	0.0246	0.00500	"	0.0333	ND	73.8	30-120	7.57	30
Chrysene	0.0260	0.00500	"	0.0333	ND	78.1	30-120	6.62	30
Dibenz (a,h) anthracene	0.0196	0.00500	"	0.0333	ND	58.8	30-120	3.67	30
Fluoranthene	0.0241	0.00500	"	0.0333	ND	72.4	30-120	3.62	30
Fluorene	0.0234	0.00500	"	0.0333	ND	70.1	30-120	6.16	30
Indeno (1,2,3-cd) pyrene	0.0225	0.00500	"	0.0333	ND	67.4	30-120	7.82	30
Pyrene	0.0261	0.00500	"	0.0333	ND	78.4	35-142	3.31	30
1-Methylnaphthalene	0.0245	0.00500	"	0.0333	ND	73.6	15-130	23.9	50
2-Methylnaphthalene	0.0252	0.00500	"	0.0333	ND	75.5	15-130	18.3	50
Surrogate: 2-Methylnaphthalene-d10	0.0247		"	0.0333		74.0	40-150		
Surrogate: Fluoranthene-d10	0.0251		"	0.0333		75.2	40-150		

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Jeb Watts

Reported:
05/02/23 14:41

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 10, 2023

Chandler Cole

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: DCP - COAN AT-1-1

Work Order #2305077

Enclosed are the results of analyses for samples received by Summit Scientific on 05/03/23 18:11. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury
President



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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 12:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NW-12'@32'	2305077-01	Soil	05/03/23 11:54	05/03/23 18:11
NE-14'@32'	2305077-02	Soil	05/03/23 12:06	05/03/23 18:11
NE-Base'@37'	2305077-03	Soil	05/03/23 15:35	05/03/23 18:11

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2305077	

Client:	Send Data To:	Send Invoice To:
Address: 6855 W 119 th Ave	Project Manager: J. Watts / Chandler Cole	Company:
City/State/Zip: Broomfield / CO / 80029	E-Mail: jwatts@tasman-geo.com	Project Name/Location:
Phone: 303-487-1228	chandler.E.Cole@P66.com / Bgabel@tasman-geo.com	AFE#:
Sampler Name: Brian Gabel	Project Name: Coan AT-1-1	PO/Billing Codes:
	Project Number:	Contact:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested										Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	q15	VOCs + TPH	q15	PAHs	q15	Inorganic				
1	NW-12 @ 32'	5/3/23	1154	2			X			X			X	X	X	X	X					H = HOLD PARTS Only: Benzo (a) pyrene Benzo (b) fluoranthene Chrysene Fluoranthene Pyrene 1,2,3-methylphenylene
2	SW-14 @ 32'	5/3/23	1154	2			X			X			X	X	X	X	X					
3	NE-14 @ 32'		1206	2			X			X			X	X	X	X	X					
4	NE Base @ 37'		1535	2			X			X			X	X	X	X	X					
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: <i>Dr. Lail</i>	Date/Time: 5/3/23 17:10	Received by: <i>Tasman Lockbox</i>	Date/Time: 5/3/23 17:12	TAT Business Days	Field DO	Notes: ID 4 = NE Base @ 37'
Relinquished by: <i>Tasman Lockbox</i>	Date/Time: 5/3/23 1811	Received by: <i>[Signature]</i>	Date/Time: 5/3/23 1811	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 11.3	Corrected Temperature: <i>6</i>	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# _____

Client: Tasman Client Project ID: Coan AT-1-1Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 11.3 Thermometer # 1

	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"/>	on ice
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	sent extra sample
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

5/3/23
Date/Time



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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 12:50

NW-12'@32'
2305077-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/03/23 11:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0127	05/03/23	05/04/23	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	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/03/23 11:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0401	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/03/23 11:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0129	05/03/23	05/03/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/03/23 11:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	14.6	117 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 12:50

NW-12'@32'
2305077-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/03/23 11:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) pyrene	ND	0.00500	mg/kg	1	BGE0133	05/04/23	05/04/23	EPA 8270D SIM	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/03/23 11:54**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0137	41.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0176	52.7 %	40-150		"	"	"	"	

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: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 12:50

NE-14'@32'
2305077-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/03/23 12:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0127	05/03/23	05/04/23	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	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/03/23 12:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0420	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/03/23 12:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0129	05/03/23	05/03/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/03/23 12:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.8	111 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 12:50

NE-14'@32'
2305077-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/03/23 12:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) pyrene	ND	0.00500	mg/kg	1	BGE0133	05/04/23	05/04/23	EPA 8270D SIM	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/03/23 12:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0246	73.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0153	45.8 %	40-150		"	"	"	"	

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 12:50

NE-Base'@37'
2305077-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/03/23 15:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.023	0.0020	mg/kg	1	BGE0127	05/03/23	05/04/23	EPA 8260B	
Toluene	0.022	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.012	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.0059	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/03/23 15:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0380	95.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/03/23 15:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0129	05/03/23	05/03/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/03/23 15:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.2	106 %	30-150		"	"	"	"	

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 12:50

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 BGE0127 - EPA 5030 Soil MS

Blank (BGE0127-BLK1)

Prepared: 05/03/23 Analyzed: 05/04/23

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	0.0416		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0422		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.3	50-150			

LCS (BGE0127-BS1)

Prepared: 05/03/23 Analyzed: 05/04/23

Benzene	0.117	0.0020	mg/kg	0.100		117	70-130			
Toluene	0.0970	0.0050	"	0.100		97.0	70-130			
Ethylbenzene	0.0845	0.0050	"	0.100		84.5	70-130			
m,p-Xylene	0.181	0.010	"	0.200		90.4	70-130			
o-Xylene	0.0840	0.0050	"	0.100		84.0	70-130			
1,2,4-Trimethylbenzene	0.0731	0.0050	"	0.100		73.1	70-130			
1,3,5-Trimethylbenzene	0.0788	0.0050	"	0.100		78.8	70-130			
Naphthalene	0.0789	0.0038	"	0.100		78.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0408		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0432		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.3	50-150			

Matrix Spike (BGE0127-MS1)

Source: 2305077-01

Prepared: 05/03/23 Analyzed: 05/04/23

Benzene	0.112	0.0020	mg/kg	0.100	ND	112	70-130			
Toluene	0.115	0.0050	"	0.100	ND	115	70-130			
Ethylbenzene	0.0915	0.0050	"	0.100	ND	91.5	70-130			
m,p-Xylene	0.196	0.010	"	0.200	ND	97.8	70-130			
o-Xylene	0.0979	0.0050	"	0.100	ND	97.9	70-130			
1,2,4-Trimethylbenzene	0.0783	0.0050	"	0.100	ND	78.3	70-130			
1,3,5-Trimethylbenzene	0.0878	0.0050	"	0.100	ND	87.8	70-130			
Naphthalene	0.0830	0.0038	"	0.100	ND	83.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	50-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 12:50

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 BGE0127 - EPA 5030 Soil MS

Matrix Spike Dup (BGE0127-MSD1)	Source: 2305077-01			Prepared: 05/03/23 Analyzed: 05/04/23						
Benzene	0.114	0.0020	mg/kg	0.100	ND	114	70-130	1.11	30	
Toluene	0.119	0.0050	"	0.100	ND	119	70-130	3.25	30	
Ethylbenzene	0.0981	0.0050	"	0.100	ND	98.1	70-130	6.96	30	
m,p-Xylene	0.208	0.010	"	0.200	ND	104	70-130	6.01	30	
o-Xylene	0.102	0.0050	"	0.100	ND	102	70-130	4.32	30	
1,2,4-Trimethylbenzene	0.0981	0.0050	"	0.100	ND	98.1	70-130	22.4	30	
1,3,5-Trimethylbenzene	0.0758	0.0050	"	0.100	ND	75.8	70-130	14.7	30	
Naphthalene	0.0893	0.0038	"	0.100	ND	89.3	70-130	7.42	30	
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.4	50-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 12:50

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 BGE0129 - EPA 3550A

Blank (BGE0129-BLK1)

Prepared: 05/03/23 Analyzed: 05/04/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.3		"	12.5		98.4	30-150			

LCS (BGE0129-BS1)

Prepared: 05/03/23 Analyzed: 05/04/23

C10-C28 (DRO)	525	50	mg/kg	500		105	70-130			
Surrogate: o-Terphenyl	13.2		"	12.5		106	30-150			

Matrix Spike (BGE0129-MS1)

Source: 2305077-01

Prepared: 05/03/23 Analyzed: 05/04/23

C10-C28 (DRO)	486	50	mg/kg	500	ND	97.1	70-130			
Surrogate: o-Terphenyl	12.3		"	12.5		98.6	30-150			

Matrix Spike Dup (BGE0129-MSD1)

Source: 2305077-01

Prepared: 05/03/23 Analyzed: 05/04/23

C10-C28 (DRO)	461	50	mg/kg	500	ND	92.2	70-130	5.20	20	
Surrogate: o-Terphenyl	11.9		"	12.5		95.5	30-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 12:50

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 BGE0133 - EPA 5030 Soil MS

Blank (BGE0133-BLK1)

Prepared & Analyzed: 05/04/23

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	0.0238		"	0.0333		71.5		40-150			
Surrogate: Fluoranthene-d10	0.0357		"	0.0333		107		40-150			

LCS (BGE0133-BS1)

Prepared & Analyzed: 05/04/23

Acenaphthene	0.0282	0.00500	mg/kg	0.0333		84.5		31-137			
Anthracene	0.0311	0.00500	"	0.0333		93.2		30-120			
Benzo (a) anthracene	0.0248	0.00500	"	0.0333		74.4		30-120			
Benzo (a) pyrene	0.0248	0.00500	"	0.0333		74.3		30-120			
Benzo (b) fluoranthene	0.0232	0.00500	"	0.0333		69.7		30-120			
Benzo (k) fluoranthene	0.0276	0.00500	"	0.0333		82.7		30-120			
Chrysene	0.0334	0.00500	"	0.0333		100		30-120			
Dibenz (a,h) anthracene	0.0180	0.00500	"	0.0333		54.0		30-120			
Fluoranthene	0.0299	0.00500	"	0.0333		89.7		30-120			
Fluorene	0.0275	0.00500	"	0.0333		82.6		30-120			
Indeno (1,2,3-cd) pyrene	0.0191	0.00500	"	0.0333		57.4		30-120			
Pyrene	0.0352	0.00500	"	0.0333		106		35-142			
1-Methylnaphthalene	0.0258	0.00500	"	0.0333		77.4		35-142			
2-Methylnaphthalene	0.0274	0.00500	"	0.0333		82.3		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0273		"	0.0333		81.8		40-150			
Surrogate: Fluoranthene-d10	0.0306		"	0.0333		91.7		40-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 12:50

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 BGE0133 - EPA 5030 Soil MS

Matrix Spike (BGE0133-MS1)

Source: 2305046-01

Prepared & Analyzed: 05/04/23

Acenaphthene	0.0159	0.00500	mg/kg	0.0333	ND	47.6	31-137				
Anthracene	0.0258	0.00500	"	0.0333	ND	77.3	30-120				
Benzo (a) anthracene	0.0242	0.00500	"	0.0333	ND	72.6	30-120				
Benzo (a) pyrene	0.0140	0.00500	"	0.0333	ND	41.9	30-120				
Benzo (b) fluoranthene	0.0151	0.00500	"	0.0333	ND	45.2	30-120				
Benzo (k) fluoranthene	0.0150	0.00500	"	0.0333	ND	44.9	30-120				
Chrysene	0.0138	0.00500	"	0.0333	ND	41.4	30-120				
Dibenz (a,h) anthracene	0.0178	0.00500	"	0.0333	ND	53.5	30-120				
Fluoranthene	0.0138	0.00500	"	0.0333	ND	41.3	30-120				
Fluorene	0.0150	0.00500	"	0.0333	ND	45.1	30-120				
Indeno (1,2,3-cd) pyrene	0.0173	0.00500	"	0.0333	ND	51.9	30-120				
Pyrene	0.0135	0.00500	"	0.0333	ND	40.5	35-142				
1-Methylnaphthalene	0.0150	0.00500	"	0.0333	ND	45.1	15-130				
2-Methylnaphthalene	0.0140	0.00500	"	0.0333	ND	41.9	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0149		"	0.0333		44.7	40-150				
Surrogate: Fluoranthene-d10	0.0150		"	0.0333		45.0	40-150				

Matrix Spike Dup (BGE0133-MSD1)

Source: 2305046-01

Prepared & Analyzed: 05/04/23

Acenaphthene	0.0172	0.00500	mg/kg	0.0333	ND	51.5	31-137	7.84	30		
Anthracene	0.0207	0.00500	"	0.0333	ND	62.2	30-120	21.7	30		
Benzo (a) anthracene	0.0182	0.00500	"	0.0333	ND	54.5	30-120	28.5	30		
Benzo (a) pyrene	0.0162	0.00500	"	0.0333	ND	48.8	30-120	15.1	30		
Benzo (b) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.9	30-120	26.4	30		
Benzo (k) fluoranthene	0.0160	0.00500	"	0.0333	ND	48.1	30-120	7.00	30		
Chrysene	0.0153	0.00500	"	0.0333	ND	46.0	30-120	10.7	30		
Dibenz (a,h) anthracene	0.0160	0.00500	"	0.0333	ND	47.9	30-120	11.0	30		
Fluoranthene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	24.3	30		
Fluorene	0.0173	0.00500	"	0.0333	ND	51.9	30-120	14.1	30		
Indeno (1,2,3-cd) pyrene	0.0140	0.00500	"	0.0333	ND	41.9	30-120	21.3	30		
Pyrene	0.0153	0.00500	"	0.0333	ND	45.8	35-142	12.2	30		
1-Methylnaphthalene	0.0150	0.00500	"	0.0333	ND	45.0	15-130	0.0866	50		
2-Methylnaphthalene	0.0214	0.00500	"	0.0333	ND	64.3	15-130	42.1	50		
Surrogate: 2-Methylnaphthalene-d10	0.0175		"	0.0333		52.6	40-150				
Surrogate: Fluoranthene-d10	0.0196		"	0.0333		58.7	40-150				

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 12:50

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 10, 2023

Chandler Cole

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: DCP - COAN AT-1-1

Work Order #2305114

Enclosed are the results of analyses for samples received by Summit Scientific on 05/04/23 18:06. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely", is written over a light blue rectangular background.

Scott Sheely For Paul Shrewsbury
President



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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 13:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NE Base@38'	2305114-01	Soil	05/04/23 11:42	05/04/23 18:06

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.

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

S₂

Sample Receipt Checklist

S2 Work Order# 2305114Client: DGP TasmannClient Project ID: Coan AT-1-1Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐Airbill #:

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

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"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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.				

Custodian Printed Name

Date/Time

5:4:23



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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 13:51

NE Base@38'
2305114-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/04/23 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0167	05/04/23	05/04/23	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	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/04/23 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0428	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/04/23 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0169	05/04/23	05/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/04/23 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.0	96.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 13:51

NE Base@38'
2305114-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/04/23 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) pyrene	ND	0.00500	mg/kg	1	BGE0170	05/05/23	05/06/23	EPA 8270D SIM	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/04/23 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0160	47.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0159	47.6 %	40-150		"	"	"	"	

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 13:51

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 BGE0167 - EPA 5030 Soil MS

Blank (BGE0167-BLK1)

Prepared: 05/04/23 Analyzed: 05/05/23

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	0.0423		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0418		"	0.0400		104	50-150			

LCS (BGE0167-BS1)

Prepared: 05/04/23 Analyzed: 05/05/23

Benzene	0.0778	0.0020	mg/kg	0.100		77.8	70-130			
Toluene	0.0897	0.0050	"	0.100		89.7	70-130			
Ethylbenzene	0.103	0.0050	"	0.100		103	70-130			
m,p-Xylene	0.209	0.010	"	0.200		105	70-130			
o-Xylene	0.0984	0.0050	"	0.100		98.4	70-130			
1,2,4-Trimethylbenzene	0.111	0.0050	"	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.112	0.0050	"	0.100		112	70-130			
Naphthalene	0.0930	0.0038	"	0.100		93.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0339		"	0.0400		84.7	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.4	50-150			

Matrix Spike (BGE0167-MS1)

Source: 2305114-01

Prepared: 05/04/23 Analyzed: 05/05/23

Benzene	0.0815	0.0020	mg/kg	0.100	ND	81.5	70-130			
Toluene	0.0946	0.0050	"	0.100	ND	94.6	70-130			
Ethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130			
m,p-Xylene	0.223	0.010	"	0.200	ND	111	70-130			
o-Xylene	0.104	0.0050	"	0.100	ND	104	70-130			
1,2,4-Trimethylbenzene	0.115	0.0050	"	0.100	ND	115	70-130			
1,3,5-Trimethylbenzene	0.117	0.0050	"	0.100	ND	117	70-130			
Naphthalene	0.0879	0.0038	"	0.100	ND	87.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0338		"	0.0400		84.5	50-150			
Surrogate: Toluene-d8	0.0386		"	0.0400		96.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	50-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 13:51

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 BGE0167 - EPA 5030 Soil MS

Matrix Spike Dup (BGE0167-MSD1)	Source: 2305114-01			Prepared: 05/04/23 Analyzed: 05/05/23						
Benzene	0.0830	0.0020	mg/kg	0.100	ND	83.0	70-130	1.79	30	
Toluene	0.0942	0.0050	"	0.100	ND	94.2	70-130	0.445	30	
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130	0.447	30	
m,p-Xylene	0.228	0.010	"	0.200	ND	114	70-130	2.05	30	
o-Xylene	0.106	0.0050	"	0.100	ND	106	70-130	2.23	30	
1,2,4-Trimethylbenzene	0.119	0.0050	"	0.100	ND	119	70-130	3.03	30	
1,3,5-Trimethylbenzene	0.119	0.0050	"	0.100	ND	119	70-130	1.77	30	
Naphthalene	0.0920	0.0038	"	0.100	ND	92.0	70-130	4.53	30	
Surrogate: 1,2-Dichloroethane-d4	0.0322		"	0.0400		80.6	50-150			
Surrogate: Toluene-d8	0.0385		"	0.0400		96.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	50-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 13:51

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 BGE0169 - EPA 3550A

Blank (BGE0169-BLK1)

Prepared: 05/04/23 Analyzed: 05/05/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.1		"	12.5		96.6	30-150			

LCS (BGE0169-BS1)

Prepared: 05/04/23 Analyzed: 05/05/23

C10-C28 (DRO)	604	50	mg/kg	500		121	70-130			
Surrogate: o-Terphenyl	11.3		"	12.5		90.1	30-150			

Matrix Spike (BGE0169-MS1)

Source: 2305114-01

Prepared: 05/04/23 Analyzed: 05/05/23

C10-C28 (DRO)	589	50	mg/kg	500	11.7	115	70-130			
Surrogate: o-Terphenyl	11.5		"	12.5		92.0	30-150			

Matrix Spike Dup (BGE0169-MSD1)

Source: 2305114-01

Prepared: 05/04/23 Analyzed: 05/05/23

C10-C28 (DRO)	566	50	mg/kg	500	11.7	111	70-130	3.98	20	
Surrogate: o-Terphenyl	11.6		"	12.5		92.4	30-150			

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 13:51

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGE0170 - EPA 5030 Soil MS

Blank (BGE0170-BLK1)

Prepared & Analyzed: 05/05/23

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	0.0314		"	0.0333		94.3	40-150			
Surrogate: Fluoranthene-d10	0.0344		"	0.0333		103	40-150			

LCS (BGE0170-BS1)

Prepared & Analyzed: 05/05/23

Acenaphthene	0.0337	0.00500	mg/kg	0.0333		101	31-137			
Anthracene	0.0319	0.00500	"	0.0333		95.6	30-120			
Benzo (a) anthracene	0.0276	0.00500	"	0.0333		82.7	30-120			
Benzo (a) pyrene	0.0204	0.00500	"	0.0333		61.2	30-120			
Benzo (b) fluoranthene	0.0179	0.00500	"	0.0333		53.6	30-120			
Benzo (k) fluoranthene	0.0235	0.00500	"	0.0333		70.6	30-120			
Chrysene	0.0366	0.00500	"	0.0333		110	30-120			
Dibenz (a,h) anthracene	0.0184	0.00500	"	0.0333		55.3	30-120			
Fluoranthene	0.0308	0.00500	"	0.0333		92.3	30-120			
Fluorene	0.0358	0.00500	"	0.0333		107	30-120			
Indeno (1,2,3-cd) pyrene	0.0195	0.00500	"	0.0333		58.6	30-120			
Pyrene	0.0375	0.00500	"	0.0333		113	35-142			
1-Methylnaphthalene	0.0256	0.00500	"	0.0333		76.9	35-142			
2-Methylnaphthalene	0.0263	0.00500	"	0.0333		78.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0265		"	0.0333		79.5	40-150			
Surrogate: Fluoranthene-d10	0.0311		"	0.0333		93.2	40-150			

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 13:51

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGE0170 - EPA 5030 Soil MS

Matrix Spike (BGE0170-MS1)

Source: 2305089-01

Prepared & Analyzed: 05/05/23

Acenaphthene	0.0185	0.00500	mg/kg	0.0333	ND	55.5	31-137		
Anthracene	0.0153	0.00500	"	0.0333	ND	46.0	30-120		
Benzo (a) anthracene	0.0149	0.00500	"	0.0333	ND	44.8	30-120		
Benzo (a) pyrene	0.0150	0.00500	"	0.0333	ND	45.1	30-120		
Benzo (b) fluoranthene	0.0178	0.00500	"	0.0333	ND	53.5	30-120		
Benzo (k) fluoranthene	0.0142	0.00500	"	0.0333	ND	42.5	30-120		
Chrysene	0.0190	0.00500	"	0.0333	ND	57.1	30-120		
Dibenz (a,h) anthracene	0.0135	0.00500	"	0.0333	ND	40.4	30-120		
Fluoranthene	0.0164	0.00500	"	0.0333	ND	49.3	30-120		
Fluorene	0.0209	0.00500	"	0.0333	ND	62.8	30-120		
Indeno (1,2,3-cd) pyrene	0.0135	0.00500	"	0.0333	ND	40.6	30-120		
Pyrene	0.0171	0.00500	"	0.0333	ND	51.3	35-142		
1-Methylnaphthalene	0.0153	0.00500	"	0.0333	ND	46.0	15-130		
2-Methylnaphthalene	0.0166	0.00500	"	0.0333	ND	49.8	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0150		"	0.0333		45.1	40-150		
Surrogate: Fluoranthene-d10	0.0181		"	0.0333		54.3	40-150		

Matrix Spike Dup (BGE0170-MSD1)

Source: 2305089-01

Prepared & Analyzed: 05/05/23

Acenaphthene	0.0170	0.00500	mg/kg	0.0333	ND	50.9	31-137	8.59	30
Anthracene	0.0159	0.00500	"	0.0333	ND	47.8	30-120	3.89	30
Benzo (a) anthracene	0.0167	0.00500	"	0.0333	ND	50.2	30-120	11.3	30
Benzo (a) pyrene	0.0162	0.00500	"	0.0333	ND	48.5	30-120	7.13	30
Benzo (b) fluoranthene	0.0168	0.00500	"	0.0333	ND	50.3	30-120	6.05	30
Benzo (k) fluoranthene	0.0143	0.00500	"	0.0333	ND	42.8	30-120	0.481	30
Chrysene	0.0184	0.00500	"	0.0333	ND	55.2	30-120	3.49	30
Dibenz (a,h) anthracene	0.0144	0.00500	"	0.0333	ND	43.2	30-120	6.55	30
Fluoranthene	0.0159	0.00500	"	0.0333	ND	47.8	30-120	3.14	30
Fluorene	0.0230	0.00500	"	0.0333	ND	69.0	30-120	9.49	30
Indeno (1,2,3-cd) pyrene	0.0147	0.00500	"	0.0333	ND	44.0	30-120	7.99	30
Pyrene	0.0178	0.00500	"	0.0333	ND	53.3	35-142	3.98	30
1-Methylnaphthalene	0.0151	0.00500	"	0.0333	ND	45.4	15-130	1.35	50
2-Methylnaphthalene	0.0143	0.00500	"	0.0333	ND	42.9	15-130	15.0	50
Surrogate: 2-Methylnaphthalene-d10	0.0152		"	0.0333		45.7	40-150		
Surrogate: Fluoranthene-d10	0.0174		"	0.0333		52.3	40-150		

Summit Scientific

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

Project: DCP - COAN AT-1-1

Project Number: [none]
Project Manager: Chandler Cole

Reported:
05/10/23 13:51

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



June 21, 2023

Tasman Geosciences

Jeb Watts

6855 West 119th Avenue

Broomfield CO 80020

Project Name - P66 - Coan AT-1-1

Project Number - [none]

Attached are your analytical results for P66 - Coan AT-1-1 received by Origins Laboratory, Inc. June 19, 2023. This project is associated with Origins project number Y306460-01.

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

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

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

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

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

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



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

Tasman Geosciences

6855 West 119th Avenue

Broomfield CO 80020

Jeb Watts

Project Number: [none]

Project: P66 - Coan AT-1-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y306460-01	Water	June 19, 2023 12:15	06/19/2023 15:04

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeb Watts
Project Number: [none]
Project: P66 - Coan AT-1-1

[illegible]

Origins Laboratory, Inc.

Byron

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Jeb Watts
Project Number: [none]
Project: P66 - Coan AT-1-1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4306460 Client: Tasman
Client Project ID: Coan AT-1-1

Checklist Completed by: EHS/DM Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 6/19/23 Airbill #: N/A

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

Cooler Number/Temperature: 110.5 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽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"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	not checked
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) JB Date/Time Reviewed 6-20-23

Origins Laboratory, Inc.

J. Bynon

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Jeb Watts
Project Number: [none]
Project: P66 - Coan AT-1-1

MW01

6/19/2023 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306460-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3F2030	JSM	06/20/2023	06/20/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	34.2	1.00	"	"	"	JSM	"	"	
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	76.4 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Jeb Watts
Project Number: [none]
Project: P66 - Coan AT-1-1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3F2030 - EPA 5030B (Water)										
Blank (B3F2030-BLK1)					Prepared: 06/20/2023 Analyzed: 06/20/2023					
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	49		"	62.5		78.1	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	70-130			

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Jeb Watts
Project Number: [none]
Project: P66 - Coan AT-1-1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3F2030 - EPA 5030B (Water)										
LCS (B3F2030-BS1)					Prepared: 06/20/2023 Analyzed: 06/20/2023					
1,2,4-Trimethylbenzene	47.8	2.00	ug/L	50.0		95.6	70-130			
1,3,5-Trimethylbenzene	48.3	2.00	"	50.0		96.6	70-130			
Benzene	52.6	1.00	"	50.0		105	70-130			
Ethylbenzene	48.4	1.00	"	50.0		96.7	70-130			
m,p-Xylene	107	2.00	"	100		107	70-130			
Naphthalene	55.3	2.00	"	50.0		111	70-130			
o-Xylene	51.5	1.00	"	50.0		103	70-130			
Toluene	52.2	1.00	"	50.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	50		"	62.5		79.2	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	70-130			

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Jeb Watts
Project Number: [none]
Project: P66 - Coan AT-1-1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3F2030 - EPA 5030B (Water)										
Matrix Spike (B3F2030-MS1)	Source: Y306460-01				Prepared: 06/20/2023 Analyzed: 06/20/2023					
1,2,4-Trimethylbenzene	47.0	2.00	ug/L	50.0	1.12	91.7	70-130			
1,3,5-Trimethylbenzene	47.9	2.00	"	50.0	0.710	94.3	70-130			
Benzene	62.8	1.00	"	50.0	34.2	57.0	70-130			QM-07
Ethylbenzene	44.2	1.00	"	50.0	0.190	88.1	70-130			
m,p-Xylene	98.1	2.00	"	100	ND	98.1	70-130			
Naphthalene	42.3	2.00	"	50.0	ND	84.5	70-130			
o-Xylene	47.2	1.00	"	50.0	0.760	93.0	70-130			
Toluene	47.6	1.00	"	50.0	ND	95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	42		"	62.5		67.6	70-130			S-GC
Surrogate: Toluene-d8	76		"	62.5		121	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

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Jeb Watts
Project Number: [none]
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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3F2030 - EPA 5030B (Water)										
Matrix Spike Dup (B3F2030-MSD1)	Source: Y306460-01				Prepared: 06/20/2023 Analyzed: 06/20/2023					
1,2,4-Trimethylbenzene	52.2	2.00	ug/L	50.0	1.12	102	70-130	10.5	20	
1,3,5-Trimethylbenzene	52.5	2.00	"	50.0	0.710	104	70-130	9.30	20	
Benzene	87.0	1.00	"	50.0	34.2	106	70-130	32.4	20	QM-07
Ethylbenzene	52.5	1.00	"	50.0	0.190	105	70-130	17.1	20	
m,p-Xylene	116	2.00	"	100	ND	116	70-130	16.6	20	
Naphthalene	49.1	2.00	"	50.0	ND	98.2	70-130	14.9	20	
o-Xylene	55.6	1.00	"	50.0	0.760	110	70-130	16.2	20	
Toluene	55.3	1.00	"	50.0	ND	111	70-130	14.9	20	
Surrogate: 1,2-Dichloroethane-d4	47		"	62.5		76.0	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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Jeb Watts
Project Number: [none]
Project: P66 - Coan AT-1-1

Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- 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 at a wet weight basis.

Origins Laboratory, Inc.

A handwritten signature in black ink, appearing to read "J. Bynon".

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