

**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:

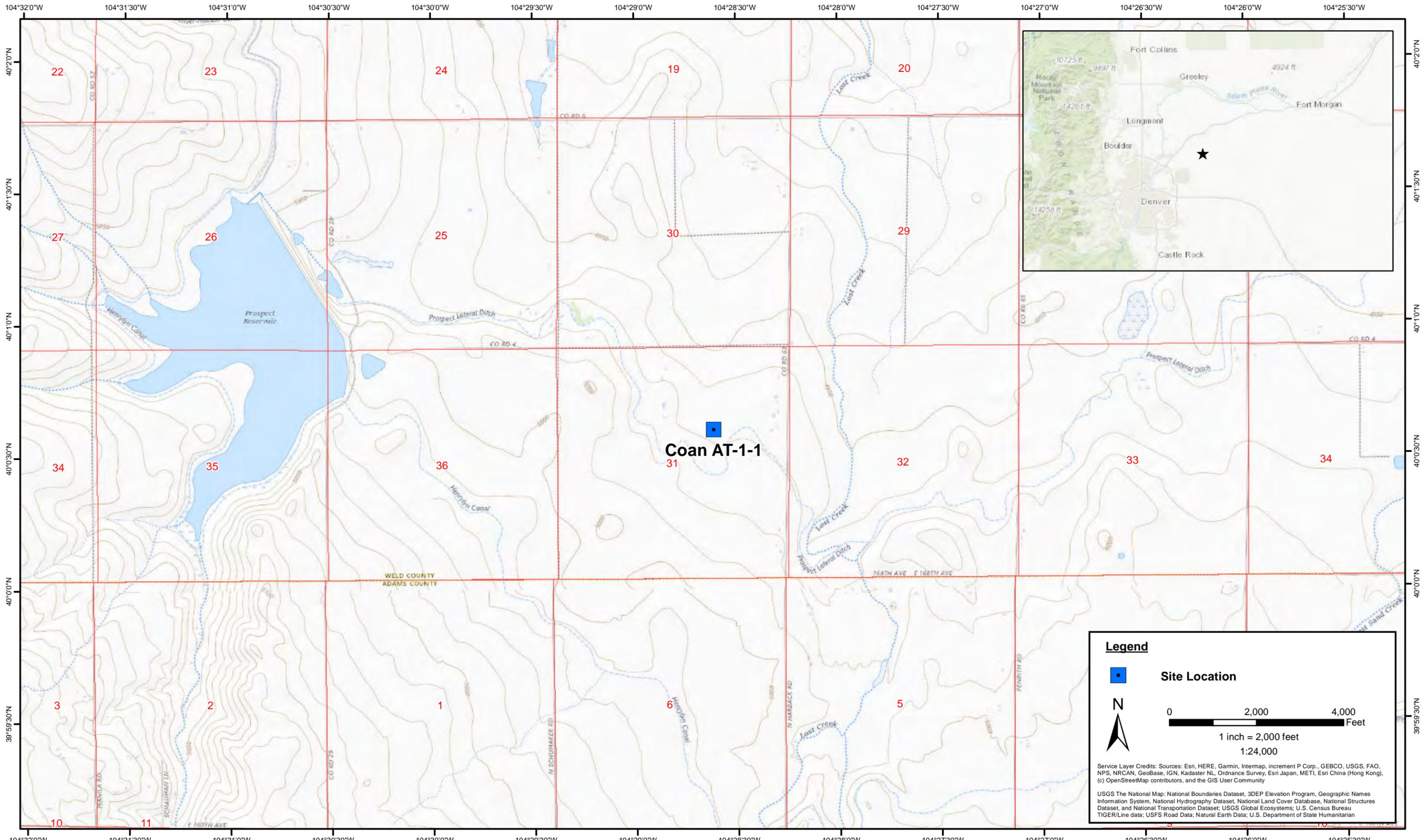
1.) The environmental cleanup standards that are applicable to the site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 915-1 of the COGCC 900 Series Rule for E&P Waste Management.

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

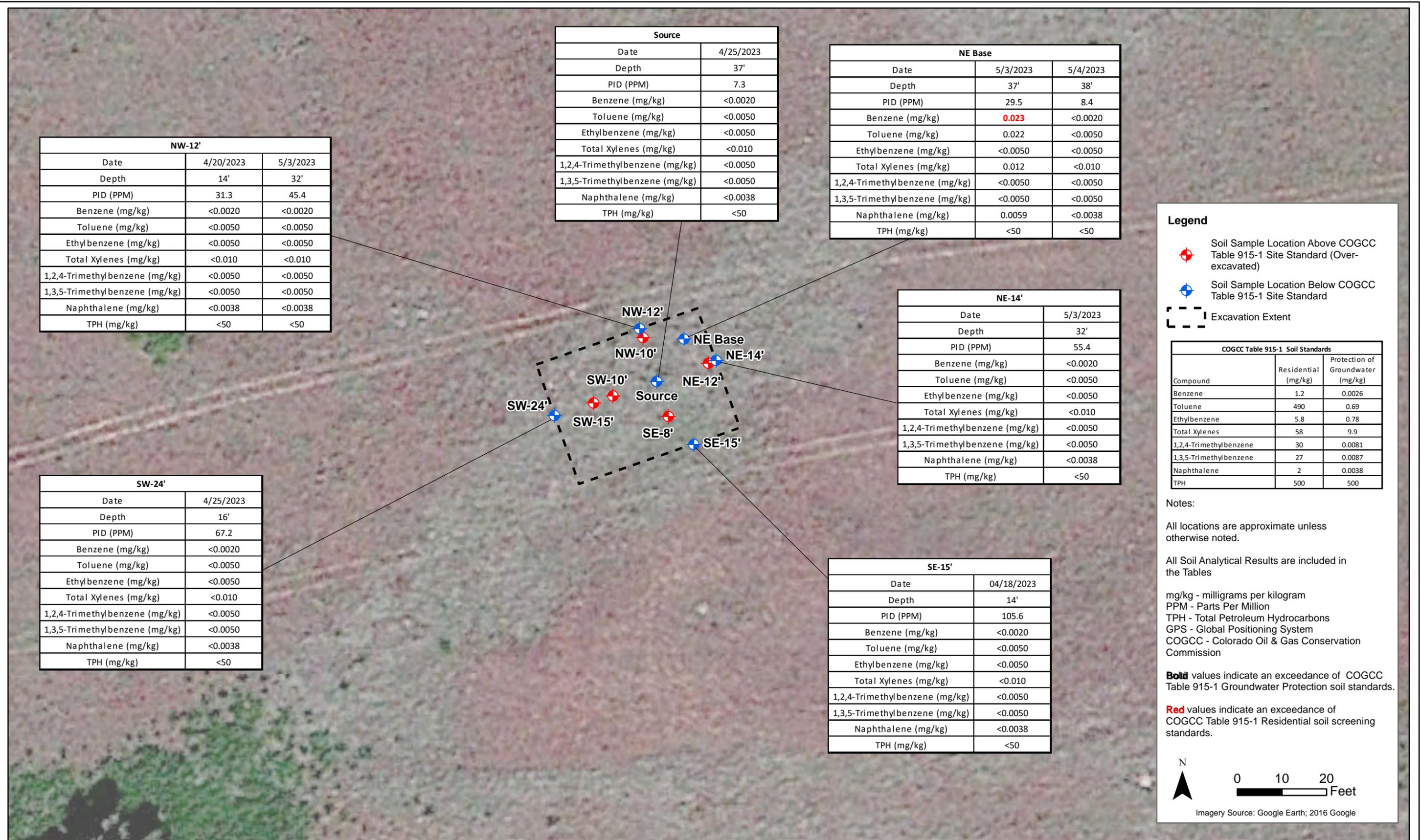


Tasman, Inc.
 6855 W. 119th Ave
 Broomfield, CO 80020

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

Site Location Map

Figure
1



NW-12'		
Date	4/20/2023	5/3/2023
Depth	14'	32'
PID (PPM)	31.3	45.4
Benzene (mg/kg)	<0.0020	<0.0020
Toluene (mg/kg)	<0.0050	<0.0050
Ethylbenzene (mg/kg)	<0.0050	<0.0050
Total Xylenes (mg/kg)	<0.010	<0.010
1,2,4-Trimethylbenzene (mg/kg)	<0.0050	<0.0050
1,3,5-Trimethylbenzene (mg/kg)	<0.0050	<0.0050
Naphthalene (mg/kg)	<0.0038	<0.0038
TPH (mg/kg)	<50	<50

Source	
Date	4/25/2023
Depth	37'
PID (PPM)	7.3
Benzene (mg/kg)	<0.0020
Toluene (mg/kg)	<0.0050
Ethylbenzene (mg/kg)	<0.0050
Total Xylenes (mg/kg)	<0.010
1,2,4-Trimethylbenzene (mg/kg)	<0.0050
1,3,5-Trimethylbenzene (mg/kg)	<0.0050
Naphthalene (mg/kg)	<0.0038
TPH (mg/kg)	<50

NE Base		
Date	5/3/2023	5/4/2023
Depth	37'	38'
PID (PPM)	29.5	8.4
Benzene (mg/kg)	0.023	<0.0020
Toluene (mg/kg)	0.022	<0.0050
Ethylbenzene (mg/kg)	<0.0050	<0.0050
Total Xylenes (mg/kg)	0.012	<0.010
1,2,4-Trimethylbenzene (mg/kg)	<0.0050	<0.0050
1,3,5-Trimethylbenzene (mg/kg)	<0.0050	<0.0050
Naphthalene (mg/kg)	0.0059	<0.0038
TPH (mg/kg)	<50	<50

NE-14'	
Date	5/3/2023
Depth	32'
PID (PPM)	55.4
Benzene (mg/kg)	<0.0020
Toluene (mg/kg)	<0.0050
Ethylbenzene (mg/kg)	<0.0050
Total Xylenes (mg/kg)	<0.010
1,2,4-Trimethylbenzene (mg/kg)	<0.0050
1,3,5-Trimethylbenzene (mg/kg)	<0.0050
Naphthalene (mg/kg)	<0.0038
TPH (mg/kg)	<50

SW-24'	
Date	4/25/2023
Depth	16'
PID (PPM)	67.2
Benzene (mg/kg)	<0.0020
Toluene (mg/kg)	<0.0050
Ethylbenzene (mg/kg)	<0.0050
Total Xylenes (mg/kg)	<0.010
1,2,4-Trimethylbenzene (mg/kg)	<0.0050
1,3,5-Trimethylbenzene (mg/kg)	<0.0050
Naphthalene (mg/kg)	<0.0038
TPH (mg/kg)	<50

SE-15'	
Date	04/18/2023
Depth	14'
PID (PPM)	105.6
Benzene (mg/kg)	<0.0020
Toluene (mg/kg)	<0.0050
Ethylbenzene (mg/kg)	<0.0050
Total Xylenes (mg/kg)	<0.010
1,2,4-Trimethylbenzene (mg/kg)	<0.0050
1,3,5-Trimethylbenzene (mg/kg)	<0.0050
Naphthalene (mg/kg)	<0.0038
TPH (mg/kg)	<50

Legend

- Soil Sample Location Above COGCC Table 915-1 Site Standard (Over-excavated)
- Soil Sample Location Below COGCC Table 915-1 Site Standard
- Excavation Extent

COGCC Table 915-1 Soil Standards		
Compound	Residential (mg/kg)	Protection of Groundwater (mg/kg)
Benzene	1.2	0.0026
Toluene	490	0.69
Ethylbenzene	5.8	0.78
Total Xylenes	58	9.9
1,2,4-Trimethylbenzene	30	0.0081
1,3,5-Trimethylbenzene	27	0.0087
Naphthalene	2	0.0038
TPH	500	500

Notes:

All locations are approximate unless otherwise noted.

All Soil Analytical Results are included in the Tables

mg/kg - milligrams per kilogram
 PPM - Parts Per Million
 TPH - Total Petroleum Hydrocarbons
 GPS - Global Positioning System
 COGCC - Colorado Oil & Gas Conservation Commission

Bold values indicate an exceedance of COGCC Table 915-1 Groundwater Protection soil standards.

Red values indicate an exceedance of COGCC Table 915-1 Residential soil screening standards.

N

0 10 20 Feet

Imagery Source: Google Earth: 2016 Google

DATE: May 2023

DESIGNED BY: J. Watts

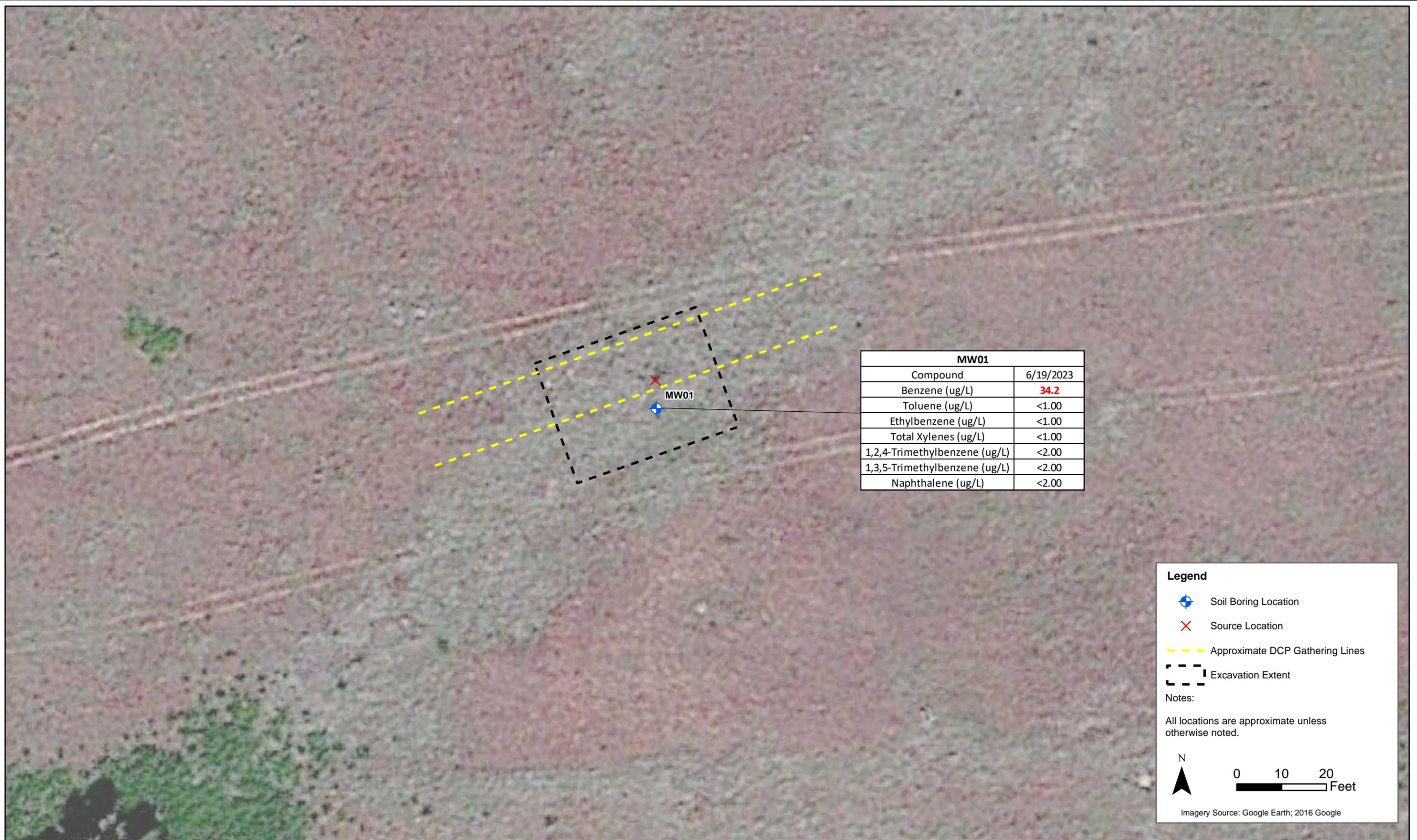
DRAWN BY: L. Reed

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

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

Excavation Extents & Analytical Results

Figure 2



Legend

-  Soil Boring Location
-  Source Location
-  Approximate DCP Gathering Lines
-  Excavation Extent

Notes:

All locations are approximate unless otherwise noted.

N

0 10 20 Feet

Imagery Source: Google Earth; 2016 Google

DATE: June 2023

DESIGNED BY: J. Watts

DRAWN BY: L. Reed

 **TASMAN**
 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



Legend

- Monitoring Well Location
- Proposed Monitoring Well Location
- Source Location
- Approximate DCP Gathering Lines
- Excavation Extent

Notes:

All locations are approximate unless otherwise noted.

N

0 10 20 Feet

Imagery Source: Google Earth; 2016 Google

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

 **TASMAN**
 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,



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 2304355 Page 1 of 1

Client: <u>DCP / Tasman</u>		Project Manager: <u>Chandler Cole / Job Watts</u>		Company: <u>DCP</u>	
Address: <u>6855 W. 119th Ave.</u>		E-Mail: <u>ccole@dcpsolutions.com; jwatts@dcpsolutions.com</u>		Project Name/Location: <u>COAN AT-1-1</u>	
City/State/Zip: <u>Broomfield CO 80070</u>		Phone: <u>303 487 1228</u>		AFE#:	
Sampler Name: <u>Vadp Scroggs</u>		Project Name: <u>COAN AT-1-1</u>		PO/Billing Codes:	
		Project Number:		Contact: <u>Chandler Cole</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915 VOCs + TPH	915 PAHs	915 Inorganics		
1	Source @ 4.5'	4/18/23	0823	2			X						X	X	H	H = HOLD	
2	Source @ 16'	4/18/23	1223	2			X						X	H	H		
3	SF-15' @ 14'	4/18/23	1257	2			X						X	H	H		
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>4/18/23 1708</u>	Received by: <u>[Signature]</u>	Date/Time: <u>17:10 4/18/23</u>	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:	Corrected Temperature <u>17.1</u>	IR gun #: <u>02</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2304355

Client: DCP / Tasman Client Project ID: COAN AT-1-1

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other [] Airbill #: []

[x] [] [] [] []

Matrix (Check all that apply) Air [] Soil/Solid [x] Water [] Other []

Temp (°C) 12.1 Thermometer # 02

Table with 5 columns: Question, Yes, No, N/A, Comments (if any). Rows include questions about cooling, custody seals, sample due dates, water samples, COC forms, sample integrity, volume, labels, volatiles, preservation, pH, and field filtering.

Additional Comments (if any):

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

GAC Custodian Printed Name

4/18/23 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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.00	%		40-150	"	"	"	"	S-01
Surrogate: Fluoranthene-d10	0.00	%		40-150	"	"	"	"	S-01

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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

Source@16'
2304355-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

Extractable Petroleum Hydrocarbons by 8015

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

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

Summit Scientific

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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

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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0235	70.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0288	86.4 %	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:
04/26/23 12:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0425		"	0.0400		106	50-150			
<i>Surrogate: Toluene-d8</i>	0.0401		"	0.0400		100	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0337		"	0.0400		84.2	50-150			
<i>Surrogate: Toluene-d8</i>	0.0396		"	0.0400		98.9	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0367		"	0.0400		91.7	50-150			
<i>Surrogate: Toluene-d8</i>	0.0473		"	0.0400		118	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0315		"	0.0400		78.8	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: 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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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		

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

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0385</i>		"	<i>0.0333</i>		<i>115</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0390</i>		"	<i>0.0333</i>		<i>117</i>		<i>40-150</i>		

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
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0350</i>		"	<i>0.0333</i>	<i>105</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0362</i>		"	<i>0.0333</i>	<i>109</i>	<i>40-150</i>

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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0287</i>		<i>"</i>	<i>0.0333</i>		<i>86.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0260</i>		<i>"</i>	<i>0.0333</i>		<i>78.0</i>	<i>40-150</i>			

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	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0248</i>		<i>"</i>	<i>0.0333</i>		<i>74.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0225</i>		<i>"</i>	<i>0.0333</i>		<i>67.6</i>	<i>40-150</i>			

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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0331</i>		"	<i>0.0333</i>		<i>99.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0347</i>		"	<i>0.0333</i>		<i>104</i>	<i>40-150</i>			

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			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0262</i>		"	<i>0.0333</i>		<i>78.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0301</i>		"	<i>0.0333</i>		<i>90.2</i>	<i>40-150</i>			

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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0199</i>		<i>"</i>	<i>0.0333</i>		<i>59.8</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0226</i>		<i>"</i>	<i>0.0333</i>		<i>67.7</i>	<i>40-150</i>					

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			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0208</i>		<i>"</i>	<i>0.0333</i>		<i>62.3</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0245</i>		<i>"</i>	<i>0.0333</i>		<i>73.5</i>	<i>40-150</i>					

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,



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

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

Lab ID	Page / of /
2304392	

Send Data To:		Send Invoice To:	
Client: DCP/Tasman	Project Manager: Chandler Cole; Job Watts	Company: DCP	
Address: 6855 W. 119th Ave	E-Mail: ccole@depudstrom.com; jwatts@depudstrom.com	Project Name/Location: COAN AT-1-1	
City/State/Zip: Broomfield, CO, 80020	jwatts@tasman-pro.com - uscr4550@tasman-pro.com	AFE#:	
Phone: (303) 487-1228	Project Name: COAN AT-1-1	PO/Billing Codes:	
Sampler Name: Wade Scruggs	Project Number:	Contact: Chandler Cole	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested			Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915	915		915
1	NW-10' @ 6'	4/19/23	1132	2			X			X			X	H	H	H=Hold
2	NE-12' @ 12'	4/19/23	1149	2			X			X			X	H	H	
3	SE-8' @ 14'	4/19/23	1212	2			X			X			X	H	H	
4	SW-10' @ 6'	4/19/23	1259	2			X			X			X	H	H	
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

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# 23641392

Client: DCP Tasmania Client Project ID: COAN AT-1-1

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other [] Airbill #: []

Matrix (Check all that apply) Air [] Soil/Solid [X] Water [] Other []

Temp (°C) 13.3 Thermometer # 02

Table with 5 columns: Question, Yes, No, N/A, Comments (if any). Rows include: If samples require cooling, is the temperature < 6°C? (1), If custody seals are present, are they intact? (1), Are samples due within 48 hours present?, Are water samples with short hold times present?, Is a chain-of-custody (COC) form present and filled out Completely? (1), Is the COC properly relinquished by the client w/ date and time recorded? (1), Were all samples received intact? (1), Was adequate sample volume provided? (1), Does the COC agree with the number and type of sample bottles received? (1), Do the sample IDs on the bottle labels match the COC?(1), For volatiles in water - is there headspace present? If yes, contact client and note in narrative., Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column - HCl, H2SO4, NaOH, HNO3, etc., If samples are acid preserved for metals, is the pH <= 2? (1) Record the pH in Comments., If dissolved metals are requested, were samples field filtered?

Additional Comments (if any):

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

Cecilia Youhane Custodian Printed Name

04-10-23 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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	13.3	106 %	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

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

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0418		"	0.0400		104	50-150			
<i>Surrogate: Toluene-d8</i>	0.0380		"	0.0400		95.0	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0328		"	0.0400		81.9	50-150			
<i>Surrogate: Toluene-d8</i>	0.0304		"	0.0400		76.1	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0357		"	0.0400		89.3	50-150			
<i>Surrogate: Toluene-d8</i>	0.0391		"	0.0400		97.6	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

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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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

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -Terphenyl	18.4		"	12.5		147		30-150			

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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

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0331</i>		"	<i>0.0333</i>		<i>99.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0347</i>		"	<i>0.0333</i>		<i>104</i>	<i>40-150</i>			

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
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0262</i>		"	<i>0.0333</i>	<i>78.6</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0301</i>		"	<i>0.0333</i>	<i>90.2</i>	<i>40-150</i>

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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

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

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

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 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,



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	Project Manager: JEB WATTS / CHANDLER COLE	Company: DCP
Address: 6855 W. 119th Ave.	E-Mail: jeb.watts@dep.wy.gov; stephan.w.watts@p66.com	Project Name/Location: COAN AT-1-1
City/State/Zip: Broomfield, CO, 80020	vscruggs@frazar-jpa.com; jwatts@frazar-jpa.com	AFE#:
Phone: 303-487-1228	Project Name: COAN AT-1-1	PO/Billing Codes:
Sampler Name: VADE SCRUGGS	Project Number:	Contact: Chandler Cole

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915 VOCs + TPH	915 PAHs	915 Inorganics	
1	Source @ 20'	4/20/23	0738	2			X			X			X	X	H	* 915 PAHs only: Benzo(a)pyrene Benzo(b)fluoranthene Chrysene Fluoranthene Fluorene Pyrene 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	
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-1-1

Shipped 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		"	"	"	"	

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

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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0448	112 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0363	90.8 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	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
<i>Surrogate: o-Terphenyl</i>	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

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

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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 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 09:09**

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

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

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0256	76.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0228	68.4 %	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:
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0399	99.8 %	50-150	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0412	103 %	50-150	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0475	119 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

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 09:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	10.2	81.8 %	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

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

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

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0424		"	0.0400		106	50-150				
<i>Surrogate: Toluene-d8</i>	0.0403		"	0.0400		101	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	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				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0458		"	0.0400		114	50-150				
<i>Surrogate: Toluene-d8</i>	0.0389		"	0.0400		97.3	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	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				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0427		"	0.0400		107	50-150				
<i>Surrogate: Toluene-d8</i>	0.0411		"	0.0400		103	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0460</i>		<i>"</i>	<i>0.0400</i>		<i>115</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>		<i>98.8</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>98.9</i>	<i>50-150</i>			

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

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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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

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

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0351</i>		"	<i>0.0333</i>		<i>105</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0327</i>		"	<i>0.0333</i>		<i>98.0</i>		<i>40-150</i>		

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		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0325</i>		"	<i>0.0333</i>		<i>97.4</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0376</i>		"	<i>0.0333</i>		<i>113</i>		<i>40-150</i>		

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	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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

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
S17	

Client: <u>DCP/Tasman</u>		Project Manager: <u>Chandler Cole / Jpb Watts</u>		Company: <u>DCP</u>	
Address: <u>6857 W. 119th Ave</u>		E-Mail: <u>ccole@dcponline.com; jpwatts@dcponline.com</u>		Project Name/Location: <u>COAN AT-1-1</u>	
City/State/Zip: <u>Broomfield CO 80020</u>		E-Mail: <u>jwatts@tasman-sc.com; lscruggs@tasman-sc.com</u>		AFE#:	
Phone: <u>303 487 1228</u>		Project Name: <u>COAN AT-1-1</u>		PO/Billing Codes:	
Sampler Name: <u>VAD SCRUGGS</u>		Project Number:		Contact: <u>Chandler Cole</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915 VOCs & TPH	915 PAHs	915 Inorganics	
1	Source @ 35'	4/24/23	1356	2			X			X			X	I	I	H= Hold
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1742 4/24/23</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4/24/23 1743</u>	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.	
				Standard <input type="checkbox"/>	Field Turb.	
Temperature Upon Receipt: <u>7.1</u>	Corrected Temperature: <u>5.4/2.7/23</u>	IR gun #: <u>02</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2304517

Client: DCP/Tasman Client Project ID: 541413 ~~GOAT~~ Coau AT-1-1

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other [] Airbill #: []

Matrix (Check all that apply) Air [] Soil/Solid [x] 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.	[x]	[]	[]	On Ice
If custody seals are present, are they intact? ⁽¹⁾	[]	[]	[x]	
Are samples due within 48 hours present?	[x]	[]	[]	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	[]	[]	[x]	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	[x]	[]	[]	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	[x]	[]	[]	
Were all samples received intact? ⁽¹⁾	[x]	[]	[]	
Was adequate sample volume provided? ⁽¹⁾	[x]	[]	[]	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	[x]	[]	[]	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	[x]	[]	[]	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	[]	[]	[x]	
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.	[]	[]	[x]	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	[]	[]	[x]	
If dissolved metals are requested, were samples field filtered?	[]	[]	[x]	

Additional Comments (if any):

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

AS
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0566	141 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0338	84.4 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0390	97.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0399		"	0.0400		99.7	50-150			
<i>Surrogate: Toluene-d8</i>	0.0392		"	0.0400		97.9	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0351		"	0.0400		87.8	50-150			
<i>Surrogate: Toluene-d8</i>	0.0386		"	0.0400		96.4	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0350		"	0.0400		87.4	50-150			
<i>Surrogate: Toluene-d8</i>	0.0392		"	0.0400		97.9	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0328</i>		<i>"</i>	<i>0.0400</i>		<i>82.1</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0475</i>		<i>"</i>	<i>0.0400</i>		<i>119</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0378</i>		<i>"</i>	<i>0.0400</i>		<i>94.6</i>	<i>50-150</i>			

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

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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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,



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	

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

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915	915	915	
1	Source @ 37"	4/25/23	1115	2			X						X	I	F	H = hold
2	SW-24' @ 16"	4/25/23	1318	2			X		X				X	F	F	
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

Relinquished by: <i>Vadole Scruggs</i>	Date/Time: 4/25/23 1557	Received by: <i>Scott Sleight</i>	Date/Time: 4/25/23 1558	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	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: 3.8	Corrected Temperature: —	IR gun #: 02	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2304529

Client: DCP/Tasman Client Project ID: Coah AT-1-1

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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.

[Signature]
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0244	73.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0268	80.4 %	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:
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.7	133 %	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: 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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0422		"	0.0400		105	50-150				
<i>Surrogate: Toluene-d8</i>	0.0403		"	0.0400		101	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	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				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0342		"	0.0400		85.6	50-150				
<i>Surrogate: Toluene-d8</i>	0.0389		"	0.0400		97.2	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	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				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0313		"	0.0400		78.2	50-150				
<i>Surrogate: Toluene-d8</i>	0.0525		"	0.0400		131	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0335</i>		<i>"</i>	<i>0.0400</i>		<i>83.8</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0363</i>		<i>"</i>	<i>0.0400</i>		<i>90.8</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0437</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>50-150</i>			

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

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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -Terphenyl	13.8		"	12.5		111		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: Jeb Watts

Reported:
05/02/23 14:41

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0257</i>		"	<i>0.0333</i>		<i>77.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0366</i>		"	<i>0.0333</i>		<i>110</i>	<i>40-150</i>			

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			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0292</i>		"	<i>0.0333</i>		<i>87.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0356</i>		"	<i>0.0333</i>		<i>107</i>	<i>40-150</i>			

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	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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,

A handwritten signature in blue ink, appearing to read "Scott Sheely".

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: <u>John Watts / Chandler Cole</u>		Company:	
City/State/Zip: <u>Broomfield / CO / 80029</u>		E-Mail: <u>jwatts@tasman-geo.com</u>		Project Name/Location:	
Phone: <u>303-487-1228</u>		<u>chandler.E.cole@p66.com / bgabel@tasman-geo.com</u>		AFE#:	
Sampler Name: <u>Brian Gabel</u>		Project Name: <u>Coan AT-1-1</u>		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	915	915	915	
1	NW-12 @ 32'	5/3/23	1154	2			X			X			X	X	X	H = HOLD PARTS ONLY: Benzo (a) pyrene Benzo (b) fluoranthene Chrysene Fluoranthene Pyrene 1,2,4-methyl phenol
2	SW-14 @ 26'	5/3/23	1154	2			X			X			X	X	X	
3	NE-14 @ 32'		1206	2			X			X			X	X	X	
4	NE Base @ 37'		1535	2			X			X			X	X	X	
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

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

S₂

Sample Receipt Checklist

S2 Work Order# _____

Client: Tasman Client Project ID: Coan AT-1-1

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OK
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0137	41.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0176	52.7 %	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

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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0416		"	0.0400		104	50-150			
<i>Surrogate: Toluene-d8</i>	0.0422		"	0.0400		105	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0408		"	0.0400		102	50-150			
<i>Surrogate: Toluene-d8</i>	0.0432		"	0.0400		108	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0416		"	0.0400		104	50-150			
<i>Surrogate: Toluene-d8</i>	0.0405		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0397		"	0.0400		99.2	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: 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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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			

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

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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -Terphenyl	11.9		"	12.5		95.5	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 12:50

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0238		"	0.0333		71.5	40-150			
<i>Surrogate: Fluoranthene-d10</i>	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			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0273		"	0.0333		81.8	40-150			
<i>Surrogate: Fluoranthene-d10</i>	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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0149</i>		<i>"</i>	<i>0.0333</i>		<i>44.7</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0150</i>		<i>"</i>	<i>0.0333</i>		<i>45.0</i>	<i>40-150</i>			

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	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0175</i>		<i>"</i>	<i>0.0333</i>		<i>52.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0196</i>		<i>"</i>	<i>0.0333</i>		<i>58.7</i>	<i>40-150</i>			

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 blue ink, appearing to read "Scott Sheely".

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

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SUMMIT SCIENTIFIC

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

Lab ID	Page of
2305114	

Send Data To:		Send Invoice To:	
Client: DCP / Tasman	Project Manager: Jeb Watts / Chandler Cole	Company: DCP	
Address: 6855 W 119th Ave	E-Mail: jwatts@tasman-seo.com bscabel@tasman-seo.com	Project Name/Location: Coq1 AT-1-1	
City/State/Zip: Broomfield / CO / 80020	chandler.E.Cole@p66.com	AFE#:	
Phone: 303-467-1228	Project Name: Coq1 AT-1-1	PO/Billing Codes:	
Sampler Name: Brian Gabel	Project Number:	Contact: Chandler Cole	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions				
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915	VOCs & TPH	915	PAHs		915	Inorganics		
1	NE Base p 38'	3/4/23	1142	2			X			X				X	X	H					H = HOLD PAHs only: Benzo(a)Pyrene Benzo(b)fluoranthene Chrysen Fluoranthene Fluorene 1+2 methyl naphthalene
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: <i>Ri Lull</i>	Date/Time: 5/4/23 1530	Received by: <i>Tasman Lockbox</i>	Date/Time: 5/4/23 1530	TAT Business Days	Field DO	Notes:
				Same Day	X Field EC	
Relinquished by: <i>Tasman Lockbox</i>	Date/Time: 5423 1800	Received by: <i>[Signature]</i>	Date/Time: 5423 1800	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: 0.1	Corrected Temperature: <i>0</i>	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2305114

Client: Deftasman Client Project ID: Coan AT-1-1

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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.

[Signature]
Custodian Printed Name

5.4.23
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 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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0322</i>		<i>"</i>	<i>0.0400</i>		<i>80.6</i>	<i>50-150</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0385</i>		<i>"</i>	<i>0.0400</i>		<i>96.2</i>	<i>50-150</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.2</i>	<i>50-150</i>		

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

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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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		3.98	70-130	20
Surrogate: <i>o</i> -Terphenyl	11.6		"	12.5		92.4			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: Chandler Cole

Reported:
05/10/23 13:51

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0314</i>		"	<i>0.0333</i>		<i>94.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0344</i>		"	<i>0.0333</i>		<i>103</i>	<i>40-150</i>			

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
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0265</i>		"	<i>0.0333</i>	<i>79.5</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0311</i>		"	<i>0.0333</i>	<i>93.2</i>	<i>40-150</i>

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	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0150</i>		<i>"</i>	<i>0.0333</i>		<i>45.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0181</i>		<i>"</i>	<i>0.0333</i>		<i>54.3</i>	<i>40-150</i>			

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	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0152</i>		<i>"</i>	<i>0.0333</i>		<i>45.7</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0174</i>		<i>"</i>	<i>0.0333</i>		<i>52.3</i>	<i>40-150</i>			

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 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



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.

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
 Date/time completed: 6/19/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 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⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	/	/		
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)	/			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: JB (Project Manager) Date/Time Reviewed: 6-20-23

Origins Laboratory, Inc.

J. Bynon

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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

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			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

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
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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			

Origins Laboratory, Inc.



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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
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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			

Origins Laboratory, Inc.



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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
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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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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
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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			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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.



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