

TABLE 1
FORMER BRIGGS AGGREGATE 1-25 TANK BATTERY
SOIL ANALYTICAL RESULTS SUMMARY TABLE
ORGANIC COMPOUNDS

Sample ID	Date Sampled	Depth	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1, 2, 4-TMB (mg/kg)	1, 3, 5-TMB (mg/kg)	Naphthalene (mg/kg)	TPH ⁽⁴⁾ (mg/kg)
Residential SSL ^(1,2)			1.2	490	5.8	58	30	27	2	500
Protection of Groundwater SSL ^(1,2,3)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500
SL01-06-B @ 7'	08/30/2023	7 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
SL01-06-S @ 6'	08/30/2023	6 ft. bgs	0.037	<0.0050	0.31	<0.010	3.9	0.041	0.68	650.00

Notes:

- Compounds referenced from the COGCC 2 CCR 404-1, Table 915-1, effective January 15, 2021.
- Soil Screening Levels (SSL) referenced from EPA Regional Screening Levels (EPA RSLs) for Chemical Contaminants at Superfund Sites, effective November 2020.
- SSLs are applicable if a pathway for communication with groundwater is present.
- Value calculated by adding TPH-GRO, TPH-DRO, and TPH-ORO concentrations.

COGCC = Colorado Oil and Gas Conservation Commission

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

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

mg/kg = Milligrams per kilogram

TMB = Trimethylbenzene

ft. = Feet

bgs = Below ground surface

BOLD = Analytical result is in exceedance of applicable standard.

TABLE 2
FORMER BRIGGS AGGREGATE 1-25 TANK BATTERY
FIELD DATA SUMMARY TABLE

Sample ID	Date Sampled	Depth	GPS Data ⁽¹⁾ Latitude / Longitude		PDOP Value	VOC Concentration ⁽²⁾ (ppm)
SL01-06-B @ 7'	08/30/2023	7 ft. bgs	40.018609	-104.843987	0.7	2.3
SL01-06-S @ 6'	08/30/2023	6 ft. bgs	40.018608	-104.843988	0.9	591.4
SL01-06-N @ 6'	08/30/2023	6 ft. bgs	40.018631	-104.843974	0.8	10.1
SL01-06-W @ 6'	08/30/2023	6 ft. bgs	40.018620	-104.843988	0.7	178.1
SL01-06-E @ 6'	08/30/2023	6 ft. bgs	40.018617	-104.843979	0.9	111.5

Notes:

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum 1983 (NAD83) UTM Zone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

ft. = Feet

bgs = Below ground surface

ATTACHMENT A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 31, 2023

Mark Longhurst

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: PDC - Briggs Aggregate I-25 Facility & Wellhead

Work Order #2308689

Enclosed are the results of analyses for samples received by Summit Scientific on 08/30/23 17:37. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

DRAFT REPORT

DATA SUBJECT TO CHANGE



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

Project: PDC - Briggs Aggregate I-25 Facility & Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 07:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SL01-06-B@7'	2308689-01	Soil	08/30/23 10:00	08/30/23 17:37
SL01-06-S@6'	2308689-04	Soil	08/30/23 10:15	08/30/23 17:37
GW01	2308689-06	Water	08/30/23 12:29	08/30/23 17:37
SS01@13'	2308689-07	Soil	08/30/23 14:42	08/30/23 17:37

DRAFT REPORT

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.

Client: PDC PDC / Tasman				Send Data To:				Send Invoice To:			
Address: 6855 W 119th Ave				Project Manager: Mark Longhurst				Company: PDC Energy			
City/State/Zip: Broomfield / CO / 80220				E-Mail: mark.longhurst@PDCE.com				Project Name/Location:			
Phone: 303-487-1228				Project Name: Briggs Aggregate 1-25 Facility & Wellhead				AFE#:			
Sampler Name: Jordan Hestmark				Project Number:				PO/Billing Codes:			
Contact: Mark Longhurst											

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested										Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEXN - 8260B	TPH - (C6 - C36)	1,2,4 & 1,3,5 - TMB	Boron - HWS	pH, EC, SAR	PAHs	Metals	TDS, SO4, Cl			
1	SL01-06-B @ 7'	8/30/23	1000	2			X			X			X	X	X	X	X	X	X	X			
2	SL01-06-N @ 6'		1005	1																	X		
3	SL01-06-W @ 6'		1016	1																	X		
4	SL01-06-S @ 6'		1015	1									X	X	X	X	X	X	X				
5	SL01-06-E @ 6'		1020	1																	X		
6	GW01		1229	3	X				X				X		X								
7	SS01 @ 13'		1442	2			X			X			X	X	X								
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							

Relinquished by: <u>Jordan Hestmark</u>	Date/Time: <u>8/30/23 1634</u>	Received by: <u>Tasman Lockbox</u>	Date/Time: <u>8/30/23 1634</u>	TAT Business Days	Field DO	Notes: Inorganics & PAHs on 48 hr. TAT
Relinquished by: <u>Tasman Lockbox</u>	Date/Time: <u>8/30/23 1737</u>	Received by: <u>Jordan Hestmark</u>	Date/Time: <u>8/30/23 1737</u>	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>9.1</u>	Corrected Temperature: <u>6</u>	IR gun #: <u>1</u>	HNO3 lot #: _____
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S₂

Sample Receipt Checklist

S2 Work Order# 2308689Client: Perfasman

Client Project ID:

Briggs Aggregate L25 Facility

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

Airbill #:

	-			
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Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

9.1

Thermometer #

1

	Yes	No	N/A	Comments (If any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ATJAE
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 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Custodian Printed Name

Date/Time

4456



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

Project: PDC - Briggs Aggregate I-25 Facility & Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 07:16

SL01-06-B@7'
2308689-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/30/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGH1235	08/30/23	08/31/23	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: **08/30/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0261	65.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0354	88.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0302	75.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/30/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGH1236	"	08/31/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/30/23 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.8	110 %	30-150		"	"	"	"	

DRAFT REPORT

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

Project: PDC - Briggs Aggregate I-25 Facility & Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 07:16

SL01-06-S@6'
2308689-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/30/23 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.037	0.0020	mg/kg	1	BGH1235	08/30/23	08/31/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.31	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	3.9	0.050	"	10	"	"	08/31/23	"	
1,3,5-Trimethylbenzene	0.041	0.0050	"	1	"	"	08/31/23	"	
Naphthalene	0.68	0.0038	"	"	"	"	"	"	E
Gasoline Range Hydrocarbons	530	5.0	"	10	"	"	08/31/23	"	

Date Sampled: **08/30/23 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0380	95.1 %	50-150		"	"	08/31/23	"	
<i>Surrogate: Toluene-d8</i>	0.0310	77.5 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0526	131 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/30/23 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	120	50	mg/kg	1	BGH1236	"	08/31/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/30/23 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	13.2	105 %	30-150		"	"	"	"	

DRAFT REPORT

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

Project: PDC - Briggs Aggregate I-25 Facility & Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 07:16

GW01
2308689-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/30/23 12:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	26	1.0		ug/l	1	BGH1241	08/30/23	08/31/23	EPA 8260B	
Toluene	20	1.0		"	"	"	"	"	"	
Ethylbenzene	89	1.0		"	"	"	"	"	"	
Xylenes (total)	370	2.0		"	"	"	"	"	"	
Naphthalene	69	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	85	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	23	1.0		"	"	"	"	"	"	

Date Sampled: **08/30/23 12:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	16.2	121 %		23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	13.4	101 %		20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	12.8	95.7 %		21-167		"	"	"	"	

DRAFT REPORT

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

Project: PDC - Briggs Aggregate I-25 Facility & Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 07:16

SS01@13'
2308689-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/30/23 14:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGH1235	08/30/23	08/31/23	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: **08/30/23 14:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0263	65.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0364	91.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0298	74.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/30/23 14:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGH1236	"	08/31/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/30/23 14:42**

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

DRAFT REPORT

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

Project: PDC - Briggs Aggregate I-25 Facility & Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 07:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGH1235 - EPA 5030 Soil MS

Blank (BGH1235-BLK1)

Prepared: 08/30/23 Analyzed: 08/31/23

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	0.0261		"	0.0400		65.2	50-150			
Surrogate: Toluene-d8	0.0359		"	0.0400		89.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0306		"	0.0400		76.4	50-150			

LCS (BGH1235-BS1)

Prepared: 08/30/23 Analyzed: 08/31/23

Benzene	0.0873	0.0020	mg/kg	0.100		87.3	70-130			
Toluene	0.0895	0.0050	"	0.100		89.5	70-130			
Ethylbenzene	0.0955	0.0050	"	0.100		95.5	70-130			
m,p-Xylene	0.174	0.010	"	0.200		87.1	70-130			
o-Xylene	0.0711	0.0050	"	0.100		71.1	70-130			
1,2,4-Trimethylbenzene	0.0770	0.0050	"	0.100		77.0	70-130			
1,3,5-Trimethylbenzene	0.0700	0.0050	"	0.100		70.0	70-130			
Naphthalene	0.102	0.0038	"	0.100		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0272		"	0.0400		67.9	50-150			
Surrogate: Toluene-d8	0.0379		"	0.0400		94.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0311		"	0.0400		77.8	50-150			

Matrix Spike (BGH1235-MS1)

Source: 2308682-01

Prepared: 08/30/23 Analyzed: 08/31/23

Benzene	0.713	0.0020	mg/kg	0.100	ND	713	70-130			QM-07
Toluene	0.0808	0.0050	"	0.100	ND	80.8	70-130			
Ethylbenzene	0.538	0.0050	"	0.100	ND	538	70-130			QM-07
m,p-Xylene	1.54	0.010	"	0.200	ND	770	70-130			QM-07
o-Xylene	0.297	0.0050	"	0.100	ND	297	70-130			QM-07
1,2,4-Trimethylbenzene	0.282	0.0050	"	0.100	ND	282	70-130			QM-07
1,3,5-Trimethylbenzene	0.180	0.0050	"	0.100	ND	180	70-130			QM-07
Naphthalene	0.108	0.0038	"	0.100	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0400		90.4	50-150			
Surrogate: Toluene-d8	0.0419		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0349		"	0.0400		87.2	50-150			

DRAFT REPORT

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

Project: PDC - Briggs Aggregate I-25 Facility & Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 07:16

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

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

Batch BGH1235 - EPA 5030 Soil MS

Matrix Spike Dup (BGH1235-MSD1)		Source: 2308682-01		Prepared: 08/30/23 Analyzed: 08/31/23						
Benzene	0.772	0.0020	mg/kg	0.100	ND	772	70-130	7.85	30	QM-07
Toluene	0.0835	0.0050	"	0.100	ND	83.5	70-130	3.25	30	
Ethylbenzene	0.634	0.0050	"	0.100	ND	634	70-130	16.4	30	QM-07
m,p-Xylene	1.78	0.010	"	0.200	ND	891	70-130	14.6	30	QM-07
o-Xylene	0.353	0.0050	"	0.100	ND	353	70-130	17.0	30	QM-07
1,2,4-Trimethylbenzene	0.332	0.0050	"	0.100	ND	332	70-130	16.2	30	QM-07
1,3,5-Trimethylbenzene	0.207	0.0050	"	0.100	ND	207	70-130	13.6	30	QM-07
Naphthalene	0.116	0.0038	"	0.100	ND	116	70-130	7.02	30	
Surrogate: 1,2-Dichloroethane-d4	0.0364		"	0.0400		91.1	50-150			
Surrogate: Toluene-d8	0.0426		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0352		"	0.0400		88.0	50-150			

Batch BGH1241 - EPA 5030 Water MS

Blank (BGH1241-BLK1)		Prepared: 08/30/23 Analyzed: 08/31/23								
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	16.9		"	13.3		126	23-173			
Surrogate: Toluene-d8	13.0		"	13.3		97.6	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

LCS (BGH1241-BS1)		Prepared: 08/30/23 Analyzed: 08/31/23								
Benzene	13.4	1.0	ug/l	21.7		62.1	51-132			
Toluene	14.5	1.0	"	21.7		66.7	51-138			
Ethylbenzene	15.9	1.0	"	21.7		73.2	58-146			
m,p-Xylene	31.5	2.0	"	43.3		72.6	57-144			
o-Xylene	12.8	1.0	"	21.7		59.2	53-146			
Naphthalene	16.0	1.0	"	21.7		73.8	70-130			
1,2,4-Trimethylbenzene	23.7	1.0	"	21.7		109	70-130			
1,3,5-Trimethylbenzene	23.2	1.0	"	21.7		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	17.0		"	13.3		128	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		94.1	21-167			

DRAFT REPORT

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

Project: PDC - Briggs Aggregate I-25 Facility & Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 07:16

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

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

Batch BGH1241 - EPA 5030 Water MS

Matrix Spike (BGH1241-MS1)		Source: 2308685-01			Prepared: 08/30/23		Analyzed: 08/31/23			
Benzene	8.24	1.0	ug/l	21.7	ND	38.0	34-141			
Toluene	9.31	1.0	"	21.7	ND	43.0	27-151			
Ethylbenzene	12.0	1.0	"	21.7	ND	55.3	29-160			
m,p-Xylene	24.4	2.0	"	43.3	ND	56.2	20-166			
o-Xylene	9.43	1.0	"	21.7	ND	43.5	33-159			
Naphthalene	13.0	1.0	"	21.7	ND	60.2	70-130			QM-07
1,2,4-Trimethylbenzene	10.7	1.0	"	21.7	ND	49.5	70-130			QM-07
1,3,5-Trimethylbenzene	10.3	1.0	"	21.7	ND	47.5	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4		17.3	"	13.3		130	23-173			
Surrogate: Toluene-d8		13.7	"	13.3		103	20-170			
Surrogate: 4-Bromofluorobenzene		12.9	"	13.3		96.5	21-167			

Matrix Spike Dup (BGH1241-MSD1)		Source: 2308685-01			Prepared: 08/30/23		Analyzed: 08/31/23			
Benzene	16.9	1.0	ug/l	21.7	ND	77.8	34-141	68.7	30	QR-03
Toluene	19.2	1.0	"	21.7	ND	88.8	27-151	69.6	30	QR-03
Ethylbenzene	22.5	1.0	"	21.7	ND	104	29-160	60.9	30	QR-03
m,p-Xylene	44.0	2.0	"	43.3	ND	102	20-166	57.6	30	QR-03
o-Xylene	18.0	1.0	"	21.7	ND	83.0	33-159	62.4	30	QR-03
Naphthalene	25.7	1.0	"	21.7	ND	119	70-130	65.3	30	QR-03
1,2,4-Trimethylbenzene	20.0	1.0	"	21.7	ND	92.5	70-130	60.5	30	QR-03
1,3,5-Trimethylbenzene	19.5	1.0	"	21.7	ND	89.9	70-130	61.7	30	QR-03
Surrogate: 1,2-Dichloroethane-d4		17.2	"	13.3		129	23-173			
Surrogate: Toluene-d8		14.2	"	13.3		106	20-170			
Surrogate: 4-Bromofluorobenzene		12.4	"	13.3		93.1	21-167			

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

Project: PDC - Briggs Aggregate I-25 Facility & Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 07:16

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGH1236 - EPA 3550A

Blank (BGH1236-BLK1)

Prepared: 08/30/23 Analyzed: 08/31/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	13.7		"	12.5	110		30-150			

LCS (BGH1236-BS1)

Prepared: 08/30/23 Analyzed: 08/31/23

C10-C28 (DRO)	512	50	mg/kg	500	102		70-130			
Surrogate: o-Terphenyl	13.8		"	12.5	110		30-150			

Matrix Spike (BGH1236-MS1)

Source: 2308679-01

Prepared: 08/30/23 Analyzed: 08/31/23

C10-C28 (DRO)	498	50	mg/kg	500	6.41	98.4	70-130			
Surrogate: o-Terphenyl	13.2		"	12.5	106		30-150			

Matrix Spike Dup (BGH1236-MSD1)

Source: 2308679-01

Prepared: 08/30/23 Analyzed: 08/31/23

C10-C28 (DRO)	497	50	mg/kg	500	6.41	98.2	70-130	0.242	20	
Surrogate: o-Terphenyl	13.4		"	12.5	107		30-150			

DRAFT REPORT

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

Project: PDC - Briggs Aggregate I-25 Facility & Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 07:16

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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