

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 24, 2022

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

RE: CR 42/13

Work Order #2201276

Enclosed are the results of analyses for samples received by Summit Scientific on 01/24/22 15:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



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

Project: CR 42/13
Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/24/22 13:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW49B@17.5'	2201276-01	Soil	01/24/22 10:35	01/24/22 15:10
MW49B@28'	2201276-02	Soil	01/24/22 11:20	01/24/22 15:10

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2201276

S₂

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Page 1 of 1

Client: DCP / TASMAN Project Manager: B. HUMPHREY / S. WESTER
 Address: 6855 W. 119TH ST. E-Mail: swest@dcpcapmidstream.com; bhumphrey@tasman-geo.com
 City/State/Zip: BROOMFIELD, CO john@tasman-geo.com
 Phone: 303-520-0298 Project Name: CR42/13
 Sampler Name: J. WATTS Project Number: 1219

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions				
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	TABLETS	DRUGS	PAHs	1,2,4-D	2-METHYLNAP						
1	MW49B@17.5'	1/24/22	1035	2			X			X				X	X	X							*PAH 1&2-METHYLNAP ONLY.
2	MW49D@28'	1/24/22	1120	2			X			X				X	X	X							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

Relinquished by: 	Date/Time: 1/29/22 15:10	Received by: 	Date/Time: 1/24/22 1510	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours Sample	Notes: B.11 TASMAN STANDARD TAT
Relinquished by:	Date/Time:	Received by:	Date/Time:	Integrity: 2.9 Temperature	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Upon Receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples Intact:	

S₂

2201276

Sample Receipt Checklist

S2 Work Order#

Client: DCP / Tasman Client Project ID: CR 42/13

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____ (Describe)

Temp (°C) 2.9

Thermometer ID: G86A9201901378

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On ice.
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<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"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽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, H2SO4, NaOH, HNO3, 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.

JB
Custodian Printed Name or Initials

1/24/22
Date/Time



Tasman Geosciences
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Broomfield CO, 80020

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/24/22 13:06

MW49B@17.5'
2201276-01 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/24/22 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFA0415	01/25/22	01/26/22	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: **01/24/22 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		128 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/24/22 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFA0416	01/25/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/24/22 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		83.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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MW49B@17.5'
2201276-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/24/22 10:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0421	01/26/22	01/27/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/24/22 10:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10		52.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		52.8 %	40-150		"	"	"	"	

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MW49B@28'
2201276-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/24/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0415	01/25/22	01/26/22	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: **01/24/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		138 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/24/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0416	01/25/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/24/22 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		79.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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MW49B@28'
2201276-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/24/22 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0421	01/26/22	01/27/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/24/22 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10		58.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		62.0 %	40-150		"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BFA0415 - EPA 5030 Soil MS

Blank (BFA0415-BLK1)

Prepared: 01/25/22 Analyzed: 01/26/22

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	0.0479		"	0.0400		120	23-173			
Surrogate: Toluene-d8	0.0410		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	21-167			

LCS (BFA0415-BS1)

Prepared: 01/25/22 Analyzed: 01/26/22

Benzene	0.0872	0.0020	mg/kg	0.100		87.2	70-130			
Toluene	0.0868	0.0050	"	0.100		86.8	70-130			
Ethylbenzene	0.0831	0.0050	"	0.100		83.1	70-130			
m,p-Xylene	0.161	0.010	"	0.200		80.7	70-130			
o-Xylene	0.0815	0.0050	"	0.100		81.5	70-130			
1,2,4-Trimethylbenzene	0.0872	0.0050	"	0.100		87.2	70-130			
1,3,5-Trimethylbenzene	0.0881	0.0050	"	0.100		88.1	70-130			
Naphthalene	0.104	0.0038	"	0.100		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0501		"	0.0400		125	23-173			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0430		"	0.0400		107	21-167			

Matrix Spike (BFA0415-MS1)

Source: 2201240-01

Prepared: 01/25/22 Analyzed: 01/26/22

Benzene	0.0846	0.0020	mg/kg	0.100	ND	84.6	70-130			
Toluene	0.0906	0.0050	"	0.100	ND	90.6	70-130			
Ethylbenzene	0.0858	0.0050	"	0.100	ND	85.8	70-130			
m,p-Xylene	0.166	0.010	"	0.200	ND	82.9	70-130			
o-Xylene	0.0826	0.0050	"	0.100	ND	82.6	70-130			
1,2,4-Trimethylbenzene	0.0900	0.0050	"	0.100	ND	90.0	70-130			
1,3,5-Trimethylbenzene	0.0912	0.0050	"	0.100	ND	91.2	70-130			
Naphthalene	0.110	0.0038	"	0.100	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0477		"	0.0400		119	23-173			
Surrogate: Toluene-d8	0.0432		"	0.0400		108	20-170			
Surrogate: 4-Bromofluorobenzene	0.0414		"	0.0400		104	21-167			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BFA0415 - EPA 5030 Soil MS

Matrix Spike Dup (BFA0415-MSD1)	Source: 2201240-01			Prepared: 01/25/22 Analyzed: 01/26/22						
Benzene	0.0826	0.0020	mg/kg	0.100	ND	82.6	70-130	2.37	30	
Toluene	0.0858	0.0050	"	0.100	ND	85.8	70-130	5.44	30	
Ethylbenzene	0.0838	0.0050	"	0.100	ND	83.8	70-130	2.37	30	
m,p-Xylene	0.161	0.010	"	0.200	ND	80.6	70-130	2.84	30	
o-Xylene	0.0823	0.0050	"	0.100	ND	82.3	70-130	0.400	30	
1,2,4-Trimethylbenzene	0.0874	0.0050	"	0.100	ND	87.4	70-130	2.98	30	
1,3,5-Trimethylbenzene	0.0875	0.0050	"	0.100	ND	87.5	70-130	4.13	30	
Naphthalene	0.119	0.0038	"	0.100	ND	119	70-130	8.10	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0472</i>		<i>"</i>	<i>0.0400</i>		<i>118</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0409</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>21-167</i>			

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control
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Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BFA0416 - EPA 3550A

Blank (BFA0416-BLK1)

Prepared: 01/25/22 Analyzed: 01/27/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BFA0416-BS1)

Prepared: 01/25/22 Analyzed: 01/27/22

C10-C28 (DRO)	477	50	mg/kg	500	95.4	70-130				
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Matrix Spike (BFA0416-MS1)

Source: 2201240-01

Prepared: 01/25/22 Analyzed: 01/27/22

C10-C28 (DRO)	409	50	mg/kg	500	11.2	79.5	70-130			
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Matrix Spike Dup (BFA0416-MSD1)

Source: 2201240-01

Prepared: 01/25/22 Analyzed: 01/27/22

C10-C28 (DRO)	389	50	mg/kg	500	11.2	75.5	70-130	5.03	20	
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PAH by EPA Method 8270D SIM - Quality Control
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Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BFA0421 - EPA 5030 Soil MS

Blank (BFA0421-BLK1)

Prepared: 01/26/22 Analyzed: 01/27/22

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>	0.0250		"	0.0333		75.0	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0246		"	0.0333		73.9	40-150			

LCS (BFA0421-BS1)

Prepared: 01/26/22 Analyzed: 01/27/22

Acenaphthene	0.0268	0.00500	mg/kg	0.0333		80.4	31-137			
Anthracene	0.0271	0.00500	"	0.0333		81.4	30-120			
Benzo (a) anthracene	0.0283	0.00500	"	0.0333		84.8	30-120			
Benzo (a) pyrene	0.0261	0.00500	"	0.0333		78.3	30-120			
Benzo (b) fluoranthene	0.0280	0.00500	"	0.0333		84.1	30-120			
Benzo (k) fluoranthene	0.0269	0.00500	"	0.0333		80.6	30-120			
Chrysene	0.0266	0.00500	"	0.0333		79.8	30-120			
Dibenz (a,h) anthracene	0.0170	0.00500	"	0.0333		51.0	30-120			
Fluoranthene	0.0259	0.00500	"	0.0333		77.7	30-120			
Fluorene	0.0268	0.00500	"	0.0333		80.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0160	0.00500	"	0.0333		48.0	30-120			
Pyrene	0.0241	0.00500	"	0.0333		72.4	35-142			
1-Methylnaphthalene	0.0287	0.00500	"	0.0333		86.1	35-142			
2-Methylnaphthalene	0.0274	0.00500	"	0.0333		82.2	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0295		"	0.0333		88.6	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0269		"	0.0333		80.8	40-150			

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PAH by EPA Method 8270D SIM - Quality Control

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

Batch BFA0421 - EPA 5030 Soil MS

Matrix Spike (BFA0421-MS1)	Source: 2201276-01			Prepared: 01/26/22 Analyzed: 01/27/22						
Acenaphthene	0.0163	0.00500	mg/kg	0.0333	ND	48.8	31-137			
Anthracene	0.0171	0.00500	"	0.0333	ND	51.3	30-120			
Benzo (a) anthracene	0.0179	0.00500	"	0.0333	ND	53.6	30-120			
Benzo (a) pyrene	0.0153	0.00500	"	0.0333	ND	45.9	30-120			
Benzo (b) fluoranthene	0.0193	0.00500	"	0.0333	ND	57.9	30-120			
Benzo (k) fluoranthene	0.0192	0.00500	"	0.0333	ND	57.5	30-120			
Chrysene	0.0166	0.00500	"	0.0333	ND	49.7	30-120			
Dibenz (a,h) anthracene	0.0101	0.00500	"	0.0333	ND	30.3	30-120			
Fluoranthene	0.0164	0.00500	"	0.0333	ND	49.3	30-120			
Fluorene	0.0163	0.00500	"	0.0333	ND	48.9	30-120			
Indeno (1,2,3-cd) pyrene	0.0175	0.00500	"	0.0333	ND	52.6	30-120			
Pyrene	0.0159	0.00500	"	0.0333	ND	47.6	35-142			
1-Methylnaphthalene	0.0170	0.00500	"	0.0333	ND	50.9	15-130			
2-Methylnaphthalene	0.0163	0.00500	"	0.0333	ND	48.8	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0165</i>		<i>"</i>	<i>0.0333</i>		<i>49.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0175</i>		<i>"</i>	<i>0.0333</i>		<i>52.4</i>	<i>40-150</i>			

Matrix Spike Dup (BFA0421-MSD1)	Source: 2201276-01			Prepared: 01/26/22 Analyzed: 01/27/22						
Acenaphthene	0.0209	0.00500	mg/kg	0.0333	ND	62.8	31-137	25.1	30	
Anthracene	0.0214	0.00500	"	0.0333	ND	64.1	30-120	22.3	30	
Benzo (a) anthracene	0.0227	0.00500	"	0.0333	ND	68.2	30-120	24.0	30	
Benzo (a) pyrene	0.0202	0.00500	"	0.0333	ND	60.6	30-120	27.6	30	
Benzo (b) fluoranthene	0.0219	0.00500	"	0.0333	ND	65.7	30-120	12.7	30	
Benzo (k) fluoranthene	0.0216	0.00500	"	0.0333	ND	64.7	30-120	11.7	30	
Chrysene	0.0214	0.00500	"	0.0333	ND	64.3	30-120	25.7	30	
Dibenz (a,h) anthracene	0.0127	0.00500	"	0.0333	ND	38.2	30-120	23.1	30	
Fluoranthene	0.0209	0.00500	"	0.0333	ND	62.7	30-120	23.9	30	
Fluorene	0.0214	0.00500	"	0.0333	ND	64.1	30-120	26.9	30	
Indeno (1,2,3-cd) pyrene	0.0159	0.00500	"	0.0333	ND	47.6	30-120	9.85	30	
Pyrene	0.0199	0.00500	"	0.0333	ND	59.7	35-142	22.6	30	
1-Methylnaphthalene	0.0220	0.00500	"	0.0333	ND	66.1	15-130	25.8	50	
2-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.2	15-130	24.1	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0212</i>		<i>"</i>	<i>0.0333</i>		<i>63.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0223</i>		<i>"</i>	<i>0.0333</i>		<i>67.0</i>	<i>40-150</i>			

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

Project: CR 42/13
Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/24/22 13:06

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

January 27, 2022

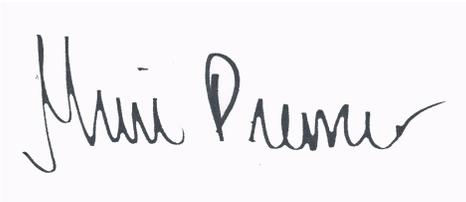
Brian Humphrey
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020

RE: CR 42/13

Work Order #2201293

Enclosed are the results of analyses for samples received by Summit Scientific on 01/25/22 14:04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



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

Project: CR 42/13

Project Number: 1219

Project Manager: Brian Humphrey

Reported:
01/27/22 15:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW51B@24'	2201293-01	Soil	01/25/22 10:40	01/25/22 14:04
MW51B@28-29'	2201293-02	Soil	01/25/22 10:45	01/25/22 14:04

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.

2701293

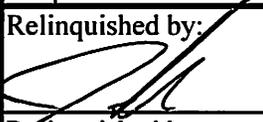
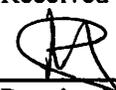
Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Client: DCP/TASMAN Project Manager: B. HUMPHREY / S. WEATHERS
 Address: 6885 W. 119TH ST. E-Mail: bhumphrey@tasman-gas.com; sweather@dep.midstream.com
 City/State/Zip: BROOMFIELD, CO 80002 just@dep-tasman-gas.com
 Phone: 303-520-0298 Project Name: CR42/13
 Sampler Name: J. WATS Project Number: 1219

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	TABLE 915	ORGANICS	DECOMPO	1&2 METHYL		METHANALS
1	MWSIB @ 24'	1/25/22	1040	2			X			X				X	X	X		*PAH'S = 1&2 METHYLNAPHTHALENE ONLY
2	MWSIB @ 28-29'	1/25/22	1045	2			X			X				X	X	X		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Relinquished by: 	Date/Time: 1/25/22 @ 14:34	Received by: 	Date/Time: 1-25-22 14:34	Turn Around Time (Check)	Notes: B: 11 TO TASMAN SAME DAY TAP.
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/> 72 hours 24 hours _____ Standard	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours _____ Sample Integrity: Temperature Upon Receipt: 4.3 Samples Intact: <input checked="" type="checkbox"/> Yes No	

S₂

Sample Receipt Checklist

S2 Work Order# 2201293

Client: DCP/Tasman Client Project ID: CR42/13

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C) 4.3

Thermometer ID: G86A9201901378

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ON ICE
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽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, H2SO4, NaOH, HNO3, 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 or Initials

1.25.22
Date/Time



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

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
01/27/22 15:40

MW51B@24'
2201293-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/25/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0419	01/25/22	01/26/22	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: **01/25/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/25/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0420	01/25/22	01/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/25/22 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		84.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
01/27/22 15:40

MW51B@24'
2201293-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/25/22 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.00500		mg/kg	1	BFA0421	01/26/22	01/27/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **01/25/22 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10		69.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		51.7 %		40-150		"	"	"	"	

Summit Scientific

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

Project: CR 42/13
Project Number: 1219
Project Manager: Brian Humphrey

Reported:
01/27/22 15:40

MW51B@28-29'
2201293-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/25/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0419	01/25/22	01/26/22	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: **01/25/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.7 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/25/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0420	01/25/22	01/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/25/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		103 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
01/27/22 15:40

MW51B@28-29'
2201293-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/25/22 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.00500		mg/kg	1	BFA0421	01/26/22	01/27/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **01/25/22 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10		52.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.0 %		40-150		"	"	"	"	

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

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
01/27/22 15:40

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 BFA0419 - EPA 5030 Soil MS

Blank (BFA0419-BLK1)

Prepared: 01/25/22 Analyzed: 01/26/22

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	0.0383		"	0.0400		95.8	23-173			
Surrogate: Toluene-d8	0.0396		"	0.0400		98.9	20-170			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.6	21-167			

LCS (BFA0419-BS1)

Prepared: 01/25/22 Analyzed: 01/26/22

Benzene	0.0937	0.0020	mg/kg	0.100		93.7	70-130			
Toluene	0.0933	0.0050	"	0.100		93.3	70-130			
Ethylbenzene	0.0955	0.0050	"	0.100		95.5	70-130			
m,p-Xylene	0.187	0.010	"	0.200		93.3	70-130			
o-Xylene	0.0968	0.0050	"	0.100		96.8	70-130			
1,2,4-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.0933	0.0050	"	0.100		93.3	70-130			
Naphthalene	0.0798	0.0038	"	0.100		79.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0379		"	0.0400		94.6	23-173			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	21-167			

Matrix Spike (BFA0419-MS1)

Source: 2201294-01

Prepared: 01/25/22 Analyzed: 01/26/22

Benzene	0.537	0.0020	mg/kg	0.100	0.426	111	70-130			
Toluene	0.604	0.0050	"	0.100	0.323	281	70-130			QM-07
Ethylbenzene	0.124	0.0050	"	0.100	0.0175	107	70-130			
m,p-Xylene	0.887	0.010	"	0.200	0.204	341	70-130			QM-07
o-Xylene	0.357	0.0050	"	0.100	0.0917	266	70-130			QM-07
1,2,4-Trimethylbenzene	0.394	0.0050	"	0.100	0.0942	300	70-130			QM-07
1,3,5-Trimethylbenzene	0.197	0.0050	"	0.100	0.0370	160	70-130			QM-07
Naphthalene	0.131	0.0038	"	0.100	0.0105	121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0389		"	0.0400		97.2	23-173			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0451		"	0.0400		113	21-167			

Summit Scientific

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

Project: CR 42/13
Project Number: 1219
Project Manager: Brian Humphrey

Reported:
01/27/22 15:40

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 BFA0419 - EPA 5030 Soil MS

Matrix Spike Dup (BFA0419-MSD1)	Source: 2201294-01			Prepared: 01/25/22 Analyzed: 01/26/22						
Benzene	0.689	0.0020	mg/kg	0.100	0.426	263	70-130	24.8	30	QM-07
Toluene	0.628	0.0050	"	0.100	0.323	304	70-130	3.82	30	QM-07
Ethylbenzene	0.102	0.0050	"	0.100	0.0175	84.7	70-130	19.3	30	
m,p-Xylene	0.670	0.010	"	0.200	0.204	233	70-130	27.9	30	QM-07
o-Xylene	0.295	0.0050	"	0.100	0.0917	203	70-130	19.1	30	QM-07
1,2,4-Trimethylbenzene	0.304	0.0050	"	0.100	0.0942	210	70-130	25.7	30	QM-07
1,3,5-Trimethylbenzene	0.159	0.0050	"	0.100	0.0370	122	70-130	21.6	30	
Naphthalene	0.123	0.0038	"	0.100	0.0105	112	70-130	6.80	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.4</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.1</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0417</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>21-167</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: CR 42/13
Project Number: 1219
Project Manager: Brian Humphrey

Reported:
01/27/22 15:40

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 BFA0420 - EPA 3550A

Blank (BFA0420-BLK1)

Prepared: 01/25/22 Analyzed: 01/26/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BFA0420-BS1)

Prepared: 01/25/22 Analyzed: 01/26/22

C10-C28 (DRO)	533	50	mg/kg	500	107	70-130				
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Matrix Spike (BFA0420-MS1)

Source: 2201294-01

Prepared: 01/25/22 Analyzed: 01/26/22

C10-C28 (DRO)	495	50	mg/kg	500	36.0	91.7	70-130			
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Matrix Spike Dup (BFA0420-MSD1)

Source: 2201294-01

Prepared: 01/25/22 Analyzed: 01/26/22

C10-C28 (DRO)	554	50	mg/kg	500	36.0	104	70-130	11.3	20	
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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: CR 42/13
Project Number: 1219
Project Manager: Brian Humphrey

Reported:
01/27/22 15:40

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 BFA0421 - EPA 5030 Soil MS

Blank (BFA0421-BLK1)

Prepared: 01/26/22 Analyzed: 01/27/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0250		"	0.0333		75.0	40-150			
Surrogate: Fluoranthene-d10	0.0246		"	0.0333		73.9	40-150			

LCS (BFA0421-BS1)

Prepared: 01/26/22 Analyzed: 01/27/22

Acenaphthene	0.0268	0.00500	mg/kg	0.0333		80.4	31-137			
Anthracene	0.0271	0.00500	"	0.0333		81.4	30-120			
Benzo (a) anthracene	0.0283	0.00500	"	0.0333		84.8	30-120			
Benzo (a) pyrene	0.0261	0.00500	"	0.0333		78.3	30-120			
Benzo (b) fluoranthene	0.0280	0.00500	"	0.0333		84.1	30-120			
Benzo (k) fluoranthene	0.0269	0.00500	"	0.0333		80.6	30-120			
Chrysene	0.0266	0.00500	"	0.0333		79.8	30-120			
Dibenz (a,h) anthracene	0.0170	0.00500	"	0.0333		51.0	30-120			
Fluoranthene	0.0259	0.00500	"	0.0333		77.7	30-120			
Fluorene	0.0268	0.00500	"	0.0333		80.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0160	0.00500	"	0.0333		48.0	30-120			
Pyrene	0.0241	0.00500	"	0.0333		72.4	35-142			
1-Methylnaphthalene	0.0287	0.00500	"	0.0333		86.1	35-142			
2-Methylnaphthalene	0.0274	0.00500	"	0.0333		82.2	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0295		"	0.0333		88.6	40-150			
Surrogate: Fluoranthene-d10	0.0269		"	0.0333		80.8	40-150			

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

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
01/27/22 15:40

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 BFA0421 - EPA 5030 Soil MS

Matrix Spike (BFA0421-MS1)	Source: 2201276-01			Prepared: 01/26/22 Analyzed: 01/27/22						
Acenaphthene	0.0163	0.00500	mg/kg	0.0333	ND	48.8	31-137			
Anthracene	0.0171	0.00500	"	0.0333	ND	51.3	30-120			
Benzo (a) anthracene	0.0179	0.00500	"	0.0333	ND	53.6	30-120			
Benzo (a) pyrene	0.0153	0.00500	"	0.0333	ND	45.9	30-120			
Benzo (b) fluoranthene	0.0193	0.00500	"	0.0333	ND	57.9	30-120			
Benzo (k) fluoranthene	0.0192	0.00500	"	0.0333	ND	57.5	30-120			
Chrysene	0.0166	0.00500	"	0.0333	ND	49.7	30-120			
Dibenz (a,h) anthracene	0.0101	0.00500	"	0.0333	ND	30.3	30-120			
Fluoranthene	0.0164	0.00500	"	0.0333	ND	49.3	30-120			
Fluorene	0.0163	0.00500	"	0.0333	ND	48.9	30-120			
Indeno (1,2,3-cd) pyrene	0.0175	0.00500	"	0.0333	ND	52.6	30-120			
Pyrene	0.0159	0.00500	"	0.0333	ND	47.6	35-142			
1-Methylnaphthalene	0.0170	0.00500	"	0.0333	ND	50.9	15-130			
2-Methylnaphthalene	0.0163	0.00500	"	0.0333	ND	48.8	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0165</i>		<i>"</i>	<i>0.0333</i>		<i>49.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0175</i>		<i>"</i>	<i>0.0333</i>		<i>52.4</i>	<i>40-150</i>			

Matrix Spike Dup (BFA0421-MSD1)	Source: 2201276-01			Prepared: 01/26/22 Analyzed: 01/27/22						
Acenaphthene	0.0209	0.00500	mg/kg	0.0333	ND	62.8	31-137	25.1	30	
Anthracene	0.0214	0.00500	"	0.0333	ND	64.1	30-120	22.3	30	
Benzo (a) anthracene	0.0227	0.00500	"	0.0333	ND	68.2	30-120	24.0	30	
Benzo (a) pyrene	0.0202	0.00500	"	0.0333	ND	60.6	30-120	27.6	30	
Benzo (b) fluoranthene	0.0219	0.00500	"	0.0333	ND	65.7	30-120	12.7	30	
Benzo (k) fluoranthene	0.0216	0.00500	"	0.0333	ND	64.7	30-120	11.7	30	
Chrysene	0.0214	0.00500	"	0.0333	ND	64.3	30-120	25.7	30	
Dibenz (a,h) anthracene	0.0127	0.00500	"	0.0333	ND	38.2	30-120	23.1	30	
Fluoranthene	0.0209	0.00500	"	0.0333	ND	62.7	30-120	23.9	30	
Fluorene	0.0214	0.00500	"	0.0333	ND	64.1	30-120	26.9	30	
Indeno (1,2,3-cd) pyrene	0.0159	0.00500	"	0.0333	ND	47.6	30-120	9.85	30	
Pyrene	0.0199	0.00500	"	0.0333	ND	59.7	35-142	22.6	30	
1-Methylnaphthalene	0.0220	0.00500	"	0.0333	ND	66.1	15-130	25.8	50	
2-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.2	15-130	24.1	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0212</i>		<i>"</i>	<i>0.0333</i>		<i>63.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0223</i>		<i>"</i>	<i>0.0333</i>		<i>67.0</i>	<i>40-150</i>			

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

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
01/27/22 15:40

Notes and Definitions

- 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.
- 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

February 03, 2022

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

RE: CR 42/13

Work Order #2201311

Enclosed are the results of analyses for samples received by Summit Scientific on 01/26/22 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large, stylized initial 'M'.

Muri Premer For Paul Shrewsbury
President



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

Project: CR 42/13

Project Number: 1219

Project Manager: Brian Humphrey

Reported:
02/03/22 14:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW52@28to28.5'	2201311-01	Soil	01/26/22 11:35	01/26/22 16:45
MW53@25to25.5'	2201311-02	Soil	01/26/22 14:46	01/26/22 16:45
MW53@27.5to28'	2201311-03	Soil	01/26/22 14:50	01/26/22 16:45

Summit Scientific

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Summit Scientific

S₂

2201311

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page | of |

Client: ACP - Tasman

Project Manager: B. Humphrey / S. Weathers

Address: 6855 W 119th Ave

E-Mail: sweathers@depnmidstream.com ; bhumphrey@tasman-geo.com

City/State/Zip: Broomfield CO 80020

jwatts@tasman-geo.com

Phone: 303-720-0298

Project Name: CR42/13

Sampler Name: Steve Casalegno

Project Number: 1219

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Table 915 Organics	PAH 1,2,3,4,5,6	PAH 1,2,3,4,5,6,7,8,9,10	PAH 1,2,3,4,5,6,7,8,9,10,11,12	
1	MW 52 @ 28 to 28.5'	1/20/22	11:35	2			X			X				X	X	X	* PAH's 1,2 - Methyl naphthalene Only
2	MW 53 @ 25 to 25.5'	1/26/22	14:46	2			X			X				X	X	X	Standard TAT
3	MW 53 @ 27.5 to 28'	1/26/22	14:50	2			X			X				X	X	X	Same Day TAT
4																	Same Day TAT
5																	
6																	
7																	
8																	
9																	
10																	

Relinquished by: [Signature] Date/Time: 1/26/22 16:45

Received by: Shree Bala Date/Time: 1/26/22 16:45

Turn Around Time (Check)
 Same Day 72 hours
 24 hours Standard
 48 hours (see notes)

Notes: Bill Tasman

Temperature Upon Receipt: 5.7
 IR gun correction: _____

Corrected Temperature _____
 IR gun #: _____
 HNO3 lot # _____

Sample Integrity:
 Samples Intact: Yes No

S₂

Sample Receipt Checklist

S2 Work Order# 2201311

Client: DCP - Tasman Client Project ID: CR42 SB CR42/13

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C)	<u>5.7</u>
-----------	------------

Thermometer ID: G86A9201901378

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°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>ice</i>
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>same day</i>
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽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, H2SO4, NaOH, HNO3, 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.

SB
Custodian Printed Name or Initials

4/26/22 10:45
Date/Time



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

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/03/22 14:37

MW52@28to28.5'
2201311-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/26/22 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFA0442	01/27/22	01/29/22	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: **01/26/22 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		114 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.0 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/26/22 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFA0443	01/27/22	01/28/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/26/22 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		134 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/03/22 14:37

MW52@28to28.5'
2201311-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/26/22 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.00500		mg/kg	1	BFA0506	01/31/22	02/01/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **01/26/22 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10		56.9 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		41.4 %		40-150		"	"	"	"	

Summit Scientific

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

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/03/22 14:37

MW53@25to25.5'
2201311-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/26/22 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0433	01/26/22	01/26/22	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: **01/26/22 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/26/22 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0434	01/26/22	01/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/26/22 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		39.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/03/22 14:37

MW53@25to25.5'
2201311-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/26/22 14:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.00500		mg/kg	1	BFA0438	01/27/22	01/28/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **01/26/22 14:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10		50.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		47.7 %		40-150		"	"	"	"	

Summit Scientific

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

Project: CR 42/13
Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/03/22 14:37

MW53@27.5to28'
2201311-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/26/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0433	01/26/22	01/26/22	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: **01/26/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		122 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/26/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0434	01/26/22	01/26/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/26/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		32.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/03/22 14:37

MW53@27.5to28'
2201311-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/26/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0438	01/27/22	01/28/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/26/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		42.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		50.9 %	40-150		"	"	"	"	

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

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/03/22 14:37

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 BFA0433 - EPA 5030 Soil MS

Blank (BFA0433-BLK1)

Prepared: 01/26/22 Analyzed: 01/27/22

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>	0.0406		"	0.0400		102	23-173			
<i>Surrogate: Toluene-d8</i>	0.0584		"	0.0400		146	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0495		"	0.0400		124	21-167			

LCS (BFA0433-BS1)

Prepared: 01/26/22 Analyzed: 01/27/22

Benzene	0.107	0.0020	mg/kg	0.100		107	70-130			
Toluene	0.120	0.0050	"	0.100		120	70-130			
Ethylbenzene	0.102	0.0050	"	0.100		102	70-130			
m,p-Xylene	0.209	0.010	"	0.200		104	70-130			
o-Xylene	0.110	0.0050	"	0.100		110	70-130			
1,2,4-Trimethylbenzene	0.111	0.0050	"	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.105	0.0050	"	0.100		105	70-130			
Naphthalene	0.111	0.0038	"	0.100		111	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0552		"	0.0400		138	23-173			
<i>Surrogate: Toluene-d8</i>	0.0474		"	0.0400		118	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0440		"	0.0400		110	21-167			

Matrix Spike (BFA0433-MS1)

Source: 2201311-02

Prepared: 01/26/22 Analyzed: 01/27/22

Benzene	0.104	0.0020	mg/kg	0.100	ND	104	70-130			
Toluene	0.0951	0.0050	"	0.100	ND	95.1	70-130			
Ethylbenzene	0.0922	0.0050	"	0.100	ND	92.2	70-130			
m,p-Xylene	0.182	0.010	"	0.200	ND	90.9	70-130			
o-Xylene	0.0936	0.0050	"	0.100	ND	93.6	70-130			
1,2,4-Trimethylbenzene	0.0853	0.0050	"	0.100	ND	85.3	70-130			
1,3,5-Trimethylbenzene	0.0820	0.0050	"	0.100	ND	82.0	70-130			
Naphthalene	0.0984	0.0038	"	0.100	ND	98.4	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0458		"	0.0400		114	23-173			
<i>Surrogate: Toluene-d8</i>	0.0385		"	0.0400		96.2	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0412		"	0.0400		103	21-167			

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

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/03/22 14:37

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 BFA0433 - EPA 5030 Soil MS

Matrix Spike Dup (BFA0433-MSD1)

Source: 2201311-02

Prepared: 01/26/22 Analyzed: 01/27/22

Benzene	0.0984	0.0020	mg/kg	0.100	ND	98.4	70-130	5.25	30	
Toluene	0.0882	0.0050	"	0.100	ND	88.2	70-130	7.56	30	
Ethylbenzene	0.0866	0.0050	"	0.100	ND	86.6	70-130	6.34	30	
m,p-Xylene	0.169	0.010	"	0.200	ND	84.6	70-130	7.11	30	
o-Xylene	0.0864	0.0050	"	0.100	ND	86.4	70-130	7.93	30	
1,2,4-Trimethylbenzene	0.0768	0.0050	"	0.100	ND	76.8	70-130	10.5	30	
1,3,5-Trimethylbenzene	0.0732	0.0050	"	0.100	ND	73.2	70-130	11.4	30	
Naphthalene	0.0929	0.0038	"	0.100	ND	92.9	70-130	5.71	30	
Surrogate: 1,2-Dichloroethane-d4	0.0459		"	0.0400		115	23-173			
Surrogate: Toluene-d8	0.0390		"	0.0400		97.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		102	21-167			

Batch BFA0442 - EPA 5030 Soil MS

Blank (BFA0442-BLK1)

Prepared: 01/27/22 Analyzed: 01/29/22

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	0.0443		"	0.0400		111	23-173			
Surrogate: Toluene-d8	0.0421		"	0.0400		105	20-170			
Surrogate: 4-Bromofluorobenzene	0.0364		"	0.0400		91.1	21-167			

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

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/03/22 14:37

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 BFA0442 - EPA 5030 Soil MS

LCS (BFA0442-BS1)

Prepared: 01/27/22 Analyzed: 01/29/22

Benzene	0.0738	0.0020	mg/kg	0.100		73.8	70-130			
Toluene	0.0801	0.0050	"	0.100		80.1	70-130			
Ethylbenzene	0.0792	0.0050	"	0.100		79.2	70-130			
m,p-Xylene	0.157	0.010	"	0.200		78.5	70-130			
o-Xylene	0.0812	0.0050	"	0.100		81.2	70-130			
1,2,4-Trimethylbenzene	0.0841	0.0050	"	0.100		84.1	70-130			
1,3,5-Trimethylbenzene	0.0823	0.0050	"	0.100		82.3	70-130			
Naphthalene	0.102	0.0038	"	0.100		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0420		"	0.0400		105	23-173			
Surrogate: Toluene-d8	0.0417		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400		95.2	21-167			

Matrix Spike (BFA0442-MS1)

Source: 2201299-01

Prepared: 01/27/22 Analyzed: 01/29/22

Benzene	0.0704	0.0020	mg/kg	0.100	ND	70.4	70-130			
Toluene	0.0818	0.0050	"	0.100	ND	81.8	70-130			
Ethylbenzene	0.0856	0.0050	"	0.100	ND	85.6	70-130			
m,p-Xylene	0.169	0.010	"	0.200	ND	84.3	70-130			
o-Xylene	0.0862	0.0050	"	0.100	ND	86.2	70-130			
1,2,4-Trimethylbenzene	0.0907	0.0050	"	0.100	ND	90.7	70-130			
1,3,5-Trimethylbenzene	0.0897	0.0050	"	0.100	ND	89.7	70-130			
Naphthalene	0.117	0.0038	"	0.100	0.00600	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0409		"	0.0400		102	23-173			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0365		"	0.0400		91.2	21-167			

Matrix Spike Dup (BFA0442-MSD1)

Source: 2201299-01

Prepared: 01/27/22 Analyzed: 01/29/22

Benzene	0.0747	0.0020	mg/kg	0.100	ND	74.7	70-130	5.87	30	
Toluene	0.0826	0.0050	"	0.100	ND	82.6	70-130	1.02	30	
Ethylbenzene	0.0815	0.0050	"	0.100	ND	81.5	70-130	4.92	30	
m,p-Xylene	0.162	0.010	"	0.200	ND	80.8	70-130	4.18	30	
o-Xylene	0.0827	0.0050	"	0.100	ND	82.7	70-130	4.05	30	
1,2,4-Trimethylbenzene	0.0885	0.0050	"	0.100	ND	88.5	70-130	2.44	30	
1,3,5-Trimethylbenzene	0.0859	0.0050	"	0.100	ND	85.9	70-130	4.31	30	
Naphthalene	0.134	0.0038	"	0.100	0.00600	128	70-130	13.3	30	
Surrogate: 1,2-Dichloroethane-d4	0.0441		"	0.0400		110	23-173			
Surrogate: Toluene-d8	0.0417		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0371		"	0.0400		92.8	21-167			

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

Project: CR 42/13
Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/03/22 14:37

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 BFA0434 - EPA 3550A

Blank (BFA0434-BLK1)

Prepared: 01/26/22 Analyzed: 01/27/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BFA0434-BS1)

Prepared: 01/26/22 Analyzed: 01/27/22

C10-C28 (DRO)	498	50	mg/kg	500		99.7	70-130			
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Matrix Spike (BFA0434-MS1)

Source: 2201311-02

Prepared: 01/26/22 Analyzed: 01/27/22

C10-C28 (DRO)	465	50	mg/kg	500	ND	92.9	70-130			
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Matrix Spike Dup (BFA0434-MSD1)

Source: 2201311-02

Prepared: 01/26/22 Analyzed: 01/27/22

C10-C28 (DRO)	495	50	mg/kg	500	ND	98.9	70-130	6.22	20	
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Batch BFA0443 - EPA 3550A

Blank (BFA0443-BLK1)

Prepared: 01/27/22 Analyzed: 01/28/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BFA0443-BS1)

Prepared: 01/27/22 Analyzed: 01/28/22

C10-C28 (DRO)	386	50	mg/kg	500		77.1	70-130			
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Matrix Spike (BFA0443-MS1)

Source: 2201299-01

Prepared: 01/27/22 Analyzed: 01/28/22

C10-C28 (DRO)	427	50	mg/kg	500	26.8	80.1	70-130			
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Matrix Spike Dup (BFA0443-MSD1)

Source: 2201299-01

Prepared: 01/27/22 Analyzed: 01/28/22

C10-C28 (DRO)	430	50	mg/kg	500	26.8	80.6	70-130	0.638	20	
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: CR 42/13
Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/03/22 14:37

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 BFA0438 - EPA 5030 Soil MS

Blank (BFA0438-BLK1)

Prepared: 01/27/22 Analyzed: 01/28/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0245		"	0.0333		73.4	40-150			
Surrogate: Fluoranthene-d10	0.0206		"	0.0333		61.9	40-150			

LCS (BFA0438-BS1)

Prepared: 01/27/22 Analyzed: 01/28/22

Acenaphthene	0.0241	0.00500	mg/kg	0.0333		72.3	31-137			
Anthracene	0.0250	0.00500	"	0.0333		75.0	30-120			
Benzo (a) anthracene	0.0252	0.00500	"	0.0333		75.7	30-120			
Benzo (a) pyrene	0.0260	0.00500	"	0.0333		78.0	30-120			
Benzo (b) fluoranthene	0.0266	0.00500	"	0.0333		79.7	30-120			
Benzo (k) fluoranthene	0.0317	0.00500	"	0.0333		95.2	30-120			
Chrysene	0.0277	0.00500	"	0.0333		83.2	30-120			
Dibenz (a,h) anthracene	0.0255	0.00500	"	0.0333		76.4	30-120			
Fluoranthene	0.0251	0.00500	"	0.0333		75.3	30-120			
Fluorene	0.0251	0.00500	"	0.0333		75.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0277	0.00500	"	0.0333		83.0	30-120			
Pyrene	0.0265	0.00500	"	0.0333		79.6	35-142			
1-Methylnaphthalene	0.0259	0.00500	"	0.0333		77.7	35-142			
2-Methylnaphthalene	0.0259	0.00500	"	0.0333		77.7	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0258		"	0.0333		77.3	40-150			
Surrogate: Fluoranthene-d10	0.0255		"	0.0333		76.4	40-150			

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

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/03/22 14:37

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 BFA0438 - EPA 5030 Soil MS

Matrix Spike (BFA0438-MS1)		Source: 2201263-01			Prepared: 01/27/22		Analyzed: 01/28/22	
Acenaphthene	0.0239	0.00500	mg/kg	0.0333	ND	71.6	31-137	
Anthracene	0.0240	0.00500	"	0.0333	ND	71.9	30-120	
Benzo (a) anthracene	0.0239	0.00500	"	0.0333	ND	71.6	30-120	
Benzo (a) pyrene	0.0236	0.00500	"	0.0333	ND	70.8	30-120	
Benzo (b) fluoranthene	0.0261	0.00500	"	0.0333	ND	78.2	30-120	
Benzo (k) fluoranthene	0.0309	0.00500	"	0.0333	ND	92.6	30-120	
Chrysene	0.0263	0.00500	"	0.0333	ND	78.8	30-120	
Dibenz (a,h) anthracene	0.0170	0.00500	"	0.0333	ND	51.1	30-120	
Fluoranthene	0.0244	0.00500	"	0.0333	ND	73.2	30-120	
Fluorene	0.0246	0.00500	"	0.0333	ND	73.7	30-120	
Indeno (1,2,3-cd) pyrene	0.0177	0.00500	"	0.0333	ND	53.1	30-120	
Pyrene	0.0268	0.00500	"	0.0333	ND	80.5	35-142	
1-Methylnaphthalene	0.0267	0.00500	"	0.0333	ND	80.2	15-130	
2-Methylnaphthalene	0.0265	0.00500	"	0.0333	ND	79.6	15-130	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0269</i>		"	<i>0.0333</i>		<i>80.8</i>	<i>40-150</i>	
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0240</i>		"	<i>0.0333</i>		<i>72.0</i>	<i>40-150</i>	

Matrix Spike Dup (BFA0438-MSD1)		Source: 2201263-01			Prepared: 01/27/22		Analyzed: 01/28/22	
Acenaphthene	0.0202	0.00500	mg/kg	0.0333	ND	60.6	31-137	16.6 30
Anthracene	0.0214	0.00500	"	0.0333	ND	64.2	30-120	11.3 30
Benzo (a) anthracene	0.0220	0.00500	"	0.0333	ND	65.9	30-120	8.19 30
Benzo (a) pyrene	0.0225	0.00500	"	0.0333	ND	67.6	30-120	4.61 30
Benzo (b) fluoranthene	0.0250	0.00500	"	0.0333	ND	75.1	30-120	4.05 30
Benzo (k) fluoranthene	0.0287	0.00500	"	0.0333	ND	86.2	30-120	7.16 30
Chrysene	0.0242	0.00500	"	0.0333	ND	72.7	30-120	7.95 30
Dibenz (a,h) anthracene	0.0165	0.00500	"	0.0333	ND	49.6	30-120	3.04 30
Fluoranthene	0.0213	0.00500	"	0.0333	ND	63.9	30-120	13.7 30
Fluorene	0.0217	0.00500	"	0.0333	ND	65.2	30-120	12.3 30
Indeno (1,2,3-cd) pyrene	0.0173	0.00500	"	0.0333	ND	51.8	30-120	2.42 30
Pyrene	0.0247	0.00500	"	0.0333	ND	74.0	35-142	8.34 30
1-Methylnaphthalene	0.0244	0.00500	"	0.0333	ND	73.2	15-130	9.17 50
2-Methylnaphthalene	0.0245	0.00500	"	0.0333	ND	73.5	15-130	7.96 50
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0246</i>		"	<i>0.0333</i>		<i>73.9</i>	<i>40-150</i>	
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0215</i>		"	<i>0.0333</i>		<i>64.6</i>	<i>40-150</i>	

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

Project: CR 42/13
Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/03/22 14:37

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 BFA0506 - EPA 5030 Soil MS

Blank (BFA0506-BLK1)

Prepared & Analyzed: 01/31/22

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>0.0194</i>		"	<i>0.0333</i>		<i>58.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0228</i>		"	<i>0.0333</i>		<i>68.4</i>	<i>40-150</i>			

LCS (BFA0506-BS1)

Prepared & Analyzed: 01/31/22

Acenaphthene	0.0213	0.00500	mg/kg	0.0333		63.9	31-137			
Anthracene	0.0238	0.00500	"	0.0333		71.4	30-120			
Benzo (a) anthracene	0.0270	0.00500	"	0.0333		80.9	30-120			
Benzo (a) pyrene	0.0206	0.00500	"	0.0333		61.8	30-120			
Benzo (b) fluoranthene	0.0212	0.00500	"	0.0333		63.5	30-120			
Benzo (k) fluoranthene	0.0173	0.00500	"	0.0333		51.8	30-120			
Chrysene	0.0217	0.00500	"	0.0333		65.0	30-120			
Dibenz (a,h) anthracene	0.0244	0.00500	"	0.0333		73.1	30-120			
Fluoranthene	0.0248	0.00500	"	0.0333		74.4	30-120			
Fluorene	0.0222	0.00500	"	0.0333		66.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0247	0.00500	"	0.0333		74.0	30-120			
Pyrene	0.0225	0.00500	"	0.0333		67.5	35-142			
1-Methylnaphthalene	0.0230	0.00500	"	0.0333		69.0	35-142			
2-Methylnaphthalene	0.0159	0.00500	"	0.0333		47.8	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0226</i>		"	<i>0.0333</i>		<i>67.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0262</i>		"	<i>0.0333</i>		<i>78.7</i>	<i>40-150</i>			

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

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/03/22 14:37

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 BFA0506 - EPA 5030 Soil MS

Matrix Spike (BFA0506-MS1)	Source: 2201185-01			Prepared & Analyzed: 01/31/22							
Acenaphthene	0.971	0.00500	mg/kg	0.0333	33300	NR	31-137				E
Anthracene	1.43	0.00500	"	0.0333	33300	NR	30-120				E
Benzo (a) anthracene	6.05	0.00500	"	0.0333	33300	NR	30-120				E
Benzo (a) pyrene	1.93	0.00500	"	0.0333	33300	NR	30-120				E
Benzo (b) fluoranthene	2.69	0.00500	"	0.0333	33300	NR	30-120				E
Benzo (k) fluoranthene	ND	0.00500	"	0.0333	ND		30-120				QM-07
Chrysene	ND	0.00500	"	0.0333	33300	NR	30-120				QM-07
Dibenz (a,h) anthracene	0.267	0.00500	"	0.0333	0.124	430	30-120				E
Fluoranthene	3.29	0.00500	"	0.0333	33300	NR	30-120				E
Fluorene	1.00	0.00500	"	0.0333	33300	NR	30-120				E
Indeno (1,2,3-cd) pyrene	0.778	0.00500	"	0.0333	33300	NR	30-120				E
Pyrene	4.67	0.00500	"	0.0333	33300	NR	35-142				E
1-Methylnaphthalene	0.193	0.00500	"	0.0333	0.120	219	15-130				E
2-Methylnaphthalene	0.255	0.00500	"	0.0333	0.154	302	15-130				E
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0218</i>		"	<i>0.0333</i>		<i>65.3</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0565</i>		"	<i>0.0333</i>		<i>170</i>	<i>40-150</i>				<i>S-02</i>

Matrix Spike Dup (BFA0506-MSD1)	Source: 2201185-01			Prepared: 01/31/22 Analyzed: 02/01/22							
Acenaphthene	0.429	0.00500	mg/kg	0.0333	33300	NR	31-137	77.4	30		E
Anthracene	0.722	0.00500	"	0.0333	33300	NR	30-120	65.6	30		E
Benzo (a) anthracene	1.50	0.00500	"	0.0333	33300	NR	30-120	121	30		E
Benzo (a) pyrene	0.712	0.00500	"	0.0333	33300	NR	30-120	92.1	30		E
Benzo (b) fluoranthene	1.06	0.00500	"	0.0333	33300	NR	30-120	87.2	30		E
Benzo (k) fluoranthene	ND	0.00500	"	0.0333	ND		30-120		30		QM-07
Chrysene	0.897	0.00500	"	0.0333	33300	NR	30-120	200	30		E
Dibenz (a,h) anthracene	0.0808	0.00500	"	0.0333	0.124	NR	30-120	107	30		E
Fluoranthene	1.44	0.00500	"	0.0333	33300	NR	30-120	78.2	30		E
Fluorene	0.586	0.00500	"	0.0333	33300	NR	30-120	52.4	30		E
Indeno (1,2,3-cd) pyrene	0.268	0.00500	"	0.0333	33300	NR	30-120	97.5	30		E
Pyrene	1.48	0.00500	"	0.0333	33300	NR	35-142	104	30		E
1-Methylnaphthalene	0.0587	0.00500	"	0.0333	0.120	NR	15-130	107	50		QM-07
2-Methylnaphthalene	0.0653	0.00500	"	0.0333	0.154	NR	15-130	118	50		QM-07
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.00827</i>		"	<i>0.0333</i>		<i>24.8</i>	<i>40-150</i>				<i>S-02</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0127</i>		"	<i>0.0333</i>		<i>38.1</i>	<i>40-150</i>				<i>S-02</i>

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

Project: CR 42/13

Project Number: 1219
Project Manager: Brian Humphrey

Reported:
02/03/22 14:37

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.
- 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

February 01, 2022

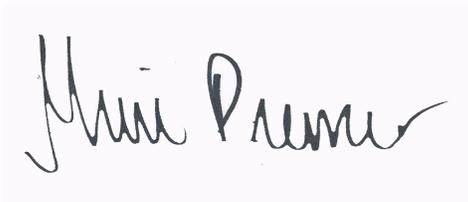
Brian Humphrey
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020

RE: CR 42/13

Work Order #2201340

Enclosed are the results of analyses for samples received by Summit Scientific on 01/27/22 13:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/01/22 15:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW50B@19-19.5'	2201340-01	Soil	01/27/22 09:45	01/27/22 13:10
MW50B@28'	2201340-03	Soil	01/27/22 10:10	01/27/22 13:10

Summit Scientific

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2201340

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: DCP - Tasman

Project Manager: B. Humphrey S. Weathers

Address: 6855 W 119th Ave

E-Mail: bhumphre@tasman-geo.com scuweathers@dgonm/stem.com

City/State/Zip: Broomfield CO 80020

jwathsc@tasman-geo.com

Phone: 303-483-1228

Project Name: CR 429 CR 13

Sampler Name: Steve Casaleggio

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Table 915 Organics	PAHs 1, 2	PAHs 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	Methylnaphthalene		
1	MW 50 B019-19.5	1/27/22	9:45	2			X			X				X	X	X		
2	MW 50 B0 25'	1/27/22	10:05	2			X			X				X	X	X		— Hold —
3	MW 50 B0 28'	1/27/22	10:10	2			X			X				X	X	X		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/27/22 13:20</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1/27/22 13:20</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/>	See above,
				24 hours <input type="checkbox"/>	72 hours <input type="checkbox"/>
				48 hours <input type="checkbox"/>	Standard <input type="checkbox"/>
Temperature Upon Receipt: <u>10.0</u>	Corrected Temperature _____	HNO3 lot # _____	Sample Integrity:	Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Bill Tasman
IR gun correction: _____	IR gun #: _____				

S₂

Sample Receipt Checklist

S2 Work Order# 2201340

Client: DLP - Tasman Client Project ID: CR42 @ CR13

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____ (Describe)

Temp (°C) 10.0

Thermometer ID: G86A9201901378

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24h
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽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, H2SO4, NaOH, HNO3, 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.

Jmo
Custodian Printed Name or Initials

1/27/22
Date/Time



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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/01/22 15:28

MW50B@19-19.5'
2201340-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/22 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFA0453	01/27/22	01/27/22	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: **01/27/22 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		140 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		55.8 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		128 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/27/22 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFA0454	01/27/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/27/22 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		109 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/01/22 15:28

MW50B@19-19.5'
2201340-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/27/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0455	01/28/22	01/29/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/27/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		60.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		67.9 %	40-150		"	"	"	"	

Summit Scientific

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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/01/22 15:28

MW50B@28'
2201340-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0453	01/27/22	01/27/22	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: **01/27/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		130 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/27/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0454	01/27/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/27/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/01/22 15:28

MW50B@28'
2201340-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/27/22 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.00500		mg/kg	1	BFA0455	01/28/22	01/29/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **01/27/22 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10		45.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		46.5 %		40-150		"	"	"	"	

Summit Scientific

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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/01/22 15:28

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 BFA0453 - EPA 5030 Soil MS

Blank (BFA0453-BLK1)

Prepared: 01/27/22 Analyzed: 01/28/22

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>	<i>0.0534</i>		<i>"</i>	<i>0.0400</i>		<i>134</i>		<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0416</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>		<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>		<i>21-167</i>		

LCS (BFA0453-BS1)

Prepared: 01/27/22 Analyzed: 01/28/22

Benzene	0.0852	0.0020	mg/kg	0.100		85.2		70-130		
Toluene	0.0926	0.0050	"	0.100		92.6		70-130		
Ethylbenzene	0.0872	0.0050	"	0.100		87.2		70-130		
m,p-Xylene	0.174	0.010	"	0.200		86.8		70-130		
o-Xylene	0.0861	0.0050	"	0.100		86.1		70-130		
1,2,4-Trimethylbenzene	0.0912	0.0050	"	0.100		91.2		70-130		
1,3,5-Trimethylbenzene	0.0894	0.0050	"	0.100		89.4		70-130		
Naphthalene	0.129	0.0038	"	0.100		129		70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0490</i>		<i>"</i>	<i>0.0400</i>		<i>123</i>		<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0407</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>		<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0432</i>		<i>"</i>	<i>0.0400</i>		<i>108</i>		<i>21-167</i>		

Matrix Spike (BFA0453-MS1)

Source: 2201340-01

Prepared: 01/27/22 Analyzed: 01/28/22

Benzene	0.0836	0.0020	mg/kg	0.100	ND	83.6		70-130		
Toluene	0.0930	0.0050	"	0.100	ND	93.0		70-130		
Ethylbenzene	0.0859	0.0050	"	0.100	ND	85.9		70-130		
m,p-Xylene	0.169	0.010	"	0.200	ND	84.7		70-130		
o-Xylene	0.0851	0.0050	"	0.100	ND	85.1		70-130		
1,2,4-Trimethylbenzene	0.0942	0.0050	"	0.100	ND	94.2		70-130		
1,3,5-Trimethylbenzene	0.0912	0.0050	"	0.100	ND	91.2		70-130		
Naphthalene	0.0935	0.0038	"	0.100	ND	93.5		70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0537</i>		<i>"</i>	<i>0.0400</i>		<i>134</i>		<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>		<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0429</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>		<i>21-167</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: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/01/22 15:28

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 BFA0453 - EPA 5030 Soil MS

Matrix Spike Dup (BFA0453-MSD1)	Source: 2201340-01			Prepared: 01/27/22 Analyzed: 01/28/22						
Benzene	0.0902	0.0020	mg/kg	0.100	ND	90.2	70-130	7.70	30	
Toluene	0.0948	0.0050	"	0.100	ND	94.8	70-130	1.98	30	
Ethylbenzene	0.0858	0.0050	"	0.100	ND	85.8	70-130	0.105	30	
m,p-Xylene	0.170	0.010	"	0.200	ND	85.0	70-130	0.353	30	
o-Xylene	0.0858	0.0050	"	0.100	ND	85.8	70-130	0.807	30	
1,2,4-Trimethylbenzene	0.0930	0.0050	"	0.100	ND	93.0	70-130	1.28	30	
1,3,5-Trimethylbenzene	0.0901	0.0050	"	0.100	ND	90.1	70-130	1.26	30	
Naphthalene	0.109	0.0038	"	0.100	ND	109	70-130	15.2	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0554</i>		<i>"</i>	<i>0.0400</i>		<i>139</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0417</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0425</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>21-167</i>			

Summit Scientific

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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/01/22 15:28

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 BFA0454 - EPA 3550A

Blank (BFA0454-BLK1)

Prepared: 01/27/22 Analyzed: 01/28/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BFA0454-BS1)

Prepared: 01/27/22 Analyzed: 01/28/22

C10-C28 (DRO)	369	50	mg/kg	500		73.7	70-130			
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Matrix Spike (BFA0454-MS1)

Source: 2201340-01

Prepared: 01/27/22 Analyzed: 01/28/22

C10-C28 (DRO)	497	50	mg/kg	500	ND	99.5	70-130			
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Matrix Spike Dup (BFA0454-MSD1)

Source: 2201340-01

Prepared: 01/27/22 Analyzed: 01/28/22

C10-C28 (DRO)	464	50	mg/kg	500	ND	92.7	70-130	6.98	20	
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Summit Scientific

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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/01/22 15:28

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 BFA0455 - EPA 5030 Soil MS

Blank (BFA0455-BLK1)

Prepared & Analyzed: 01/28/22

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>	0.0252		"	0.0333		75.5	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0273		"	0.0333		81.9	40-150			

LCS (BFA0455-BS1)

Prepared & Analyzed: 01/28/22

Acenaphthene	0.0302	0.00500	mg/kg	0.0333		90.5	31-137			
Anthracene	0.0325	0.00500	"	0.0333		97.5	30-120			
Benzo (a) anthracene	0.0359	0.00500	"	0.0333		108	30-120			
Benzo (a) pyrene	0.0292	0.00500	"	0.0333		87.5	30-120			
Benzo (b) fluoranthene	0.0290	0.00500	"	0.0333		86.9	30-120			
Benzo (k) fluoranthene	0.0276	0.00500	"	0.0333		82.9	30-120			
Chrysene	0.0324	0.00500	"	0.0333		97.1	30-120			
Dibenz (a,h) anthracene	0.0299	0.00500	"	0.0333		89.6	30-120			
Fluoranthene	0.0333	0.00500	"	0.0333		99.9	30-120			
Fluorene	0.0318	0.00500	"	0.0333		95.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0277	0.00500	"	0.0333		83.1	30-120			
Pyrene	0.0308	0.00500	"	0.0333		92.5	35-142			
1-Methylnaphthalene	0.0314	0.00500	"	0.0333		94.2	35-142			
2-Methylnaphthalene	0.0306	0.00500	"	0.0333		91.7	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0301		"	0.0333		90.2	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0345		"	0.0333		104	40-150			

Summit Scientific

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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/01/22 15:28

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 BFA0455 - EPA 5030 Soil MS

Matrix Spike (BFA0455-MS1)	Source: 2201300-01			Prepared: 01/28/22 Analyzed: 01/29/22						
Acenaphthene	0.0214	0.00500	mg/kg	0.0333	ND	64.3	31-137			
Anthracene	0.0237	0.00500	"	0.0333	ND	71.0	30-120			
Benzo (a) anthracene	0.0257	0.00500	"	0.0333	ND	77.1	30-120			
Benzo (a) pyrene	0.0203	0.00500	"	0.0333	ND	60.8	30-120			
Benzo (b) fluoranthene	0.0202	0.00500	"	0.0333	ND	60.7	30-120			
Benzo (k) fluoranthene	0.0181	0.00500	"	0.0333	ND	54.2	30-120			
Chrysene	0.0226	0.00500	"	0.0333	ND	67.8	30-120			
Dibenz (a,h) anthracene	0.0207	0.00500	"	0.0333	ND	62.2	30-120			
Fluoranthene	0.0239	0.00500	"	0.0333	ND	71.7	30-120			
Fluorene	0.0223	0.00500	"	0.0333	ND	66.9	30-120			
Indeno (1,2,3-cd) pyrene	0.0194	0.00500	"	0.0333	ND	58.1	30-120			
Pyrene	0.0227	0.00500	"	0.0333	ND	68.0	35-142			
1-Methylnaphthalene	0.0216	0.00500	"	0.0333	ND	64.9	15-130			
2-Methylnaphthalene	0.0219	0.00500	"	0.0333	ND	65.6	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0223</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>67.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0254</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>76.2</i>	<i>40-150</i>			

Matrix Spike Dup (BFA0455-MSD1)	Source: 2201300-01			Prepared: 01/28/22 Analyzed: 01/29/22						
Acenaphthene	0.0219	0.00500	mg/kg	0.0333	ND	65.8	31-137	2.32	30	
Anthracene	0.0258	0.00500	"	0.0333	ND	77.4	30-120	8.70	30	
Benzo (a) anthracene	0.0288	0.00500	"	0.0333	ND	86.4	30-120	11.5	30	
Benzo (a) pyrene	0.0227	0.00500	"	0.0333	ND	68.2	30-120	11.6	30	
Benzo (b) fluoranthene	0.0231	0.00500	"	0.0333	ND	69.2	30-120	13.1	30	
Benzo (k) fluoranthene	0.0197	0.00500	"	0.0333	ND	59.0	30-120	8.42	30	
Chrysene	0.0242	0.00500	"	0.0333	ND	72.7	30-120	6.89	30	
Dibenz (a,h) anthracene	0.0243	0.00500	"	0.0333	ND	73.0	30-120	15.9	30	
Fluoranthene	0.0260	0.00500	"	0.0333	ND	78.1	30-120	8.61	30	
Fluorene	0.0239	0.00500	"	0.0333	ND	71.7	30-120	6.85	30	
Indeno (1,2,3-cd) pyrene	0.0238	0.00500	"	0.0333	ND	71.4	30-120	20.5	30	
Pyrene	0.0248	0.00500	"	0.0333	ND	74.3	35-142	8.97	30	
1-Methylnaphthalene	0.0265	0.00500	"	0.0333	ND	79.6	15-130	20.4	50	
2-Methylnaphthalene	0.0244	0.00500	"	0.0333	ND	73.1	15-130	10.7	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0255</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>76.4</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0280</i>	<i>"</i>	<i>"</i>	<i>0.0333</i>	<i>"</i>	<i>83.9</i>	<i>40-150</i>			

Summit Scientific

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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/01/22 15:28

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

February 08, 2022

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

RE: CR 42/13

Work Order #2201363

Enclosed are the results of analyses for samples received by Summit Scientific on 01/28/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large, stylized initial "M".

Muri Premer For Paul Shrewsbury
President



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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/08/22 11:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW54@24-24.5'	2201363-01	Soil	01/28/22 10:05	01/28/22 16:00
MW54@28'	2201363-02	Soil	01/28/22 10:10	01/28/22 16:00
MW55@21-21.5'	2201363-03	Soil	01/28/22 12:10	01/28/22 16:00
MW55@27'	2201363-04	Soil	01/28/22 12:30	01/28/22 16:00

Summit Scientific

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Summit Scientific

2201363

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

Client: DCL/TASMAN Project Manager: B. HUMPHREY/S. WEATHERS
 Address: 6855 W. 119TH ST E-Mail: bhumphrey@tasman-geo.com ; sweathers@dcpmidst.com
 City/State/Zip: BROOMFIELD, CO 80305 jwatts@tasman-geo.com
 Phone: 303-520-0298 Project Name: CRH2/13
 Sampler Name: J. WATTS / S. CASALIAGO Project Number: 1219

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	TABLETS	CANISTERS	DEO/GTO/GTD	LEZ		METHYLNAPHTHALE
1	MW54 @ 24-24.5'	1/28/22	1005	2			X			X			X	X	X			PAHS = ONLY LEZ METHYLNAPHTHALE
2	MW54 @ 28'	↓	1010	2			X			X			X	X	X			
3	MW55 @ 21-21.5'	↓	1210	2			X			X			X	X	X			
4	MW55 @ 27'	↓	1230	2			X			X			X	X	X			
5																		
6																		
7																		
8																		
9																		
10																		

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/28/22 1000</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12822 1600</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/> 72 hours	PAHS = LEZ METHYLNAPHTHALE BILL TO TASMAN SAME DAY TAT
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours <input type="checkbox"/> Standard	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours <input type="checkbox"/>	
				Sample Integrity:	
				Temperature Upon Receipt: <u>4.1</u>	
				Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

S₂

Sample Receipt Checklist

S2 Work Order# 2201363

Client: DCP-Tasman Client Project ID: CRH2/13

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C) 4.1

Thermometer ID: G86A9201901378

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			on ice
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
If custody seals are present, are they intact ⁽¹⁾ ?	-			
Are samples with holding times due within 48 hours sample due within 48 hours present?	-			Sameday
Is a chain-of-custody (COC) form 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 w/ date and time recorded ⁽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, H ₂ SO ₄ , NaOH, HNO ₃ , 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.

[Signature]
Custodian Printed Name or Initials

1-28-22
Date/Time



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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/08/22 11:09

MW54@24-24.5'
2201363-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/28/22 10:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BFA0490	01/29/22	01/29/22	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: **01/28/22 10:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		146 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		110 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/28/22 10:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0491	01/29/22	01/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/28/22 10:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		120 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/08/22 11:09

MW54@24-24.5'
2201363-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/28/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0492	01/31/22	02/01/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/28/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		52.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		48.9 %	40-150		"	"	"	"	

Summit Scientific

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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/08/22 11:09

MW54@28'
2201363-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/28/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0490	01/29/22	01/29/22	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: **01/28/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		168 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		121 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/28/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0491	01/29/22	01/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/28/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		129 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/08/22 11:09

MW54@28'
2201363-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/28/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0492	01/31/22	02/01/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/28/22 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		58.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		48.2 %	40-150		"	"	"	"	

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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/08/22 11:09

MW55@21-21.5'
2201363-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/28/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0490	01/29/22	01/29/22	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: **01/28/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		152 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/28/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0491	01/29/22	01/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/28/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		127 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/08/22 11:09

MW55@21-21.5'
2201363-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/28/22 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0492	01/31/22	02/01/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/28/22 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10		51.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		40.4 %	40-150		"	"	"	"	

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Broomfield CO, 80020

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/08/22 11:09

MW55@27'
2201363-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/28/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0490	01/29/22	01/29/22	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: **01/28/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		154 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		117 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/28/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0491	01/29/22	01/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/28/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		140 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/08/22 11:09

MW55@27'
2201363-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/28/22 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0492	01/31/22	02/01/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/28/22 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10		53.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		47.1 %	40-150		"	"	"	"	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/08/22 11:09

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 BFA0490 - EPA 5030 Soil MS

Blank (BFA0490-BLK1)

Prepared & Analyzed: 01/29/22

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	0.0539		"	0.0400		135	23-173			
Surrogate: Toluene-d8	0.0586		"	0.0400		146	20-170			
Surrogate: 4-Bromofluorobenzene	0.0461		"	0.0400		115	21-167			

LCS (BFA0490-BS1)

Prepared & Analyzed: 01/29/22

Benzene	0.0891	0.0020	mg/kg	0.100		89.1	70-130			
Toluene	0.104	0.0050	"	0.100		104	70-130			
Ethylbenzene	0.0836	0.0050	"	0.100		83.6	70-130			
m,p-Xylene	0.168	0.010	"	0.200		83.8	70-130			
o-Xylene	0.0845	0.0050	"	0.100		84.5	70-130			
1,2,4-Trimethylbenzene	0.0958	0.0050	"	0.100		95.8	70-130			
1,3,5-Trimethylbenzene	0.0952	0.0050	"	0.100		95.2	70-130			
Naphthalene	0.0912	0.0038	"	0.100		91.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0397		"	0.0400		99.2	23-173			
Surrogate: Toluene-d8	0.0515		"	0.0400		129	20-170			
Surrogate: 4-Bromofluorobenzene	0.0462		"	0.0400		116	21-167			

Matrix Spike (BFA0490-MS1)

Source: 2201363-01

Prepared & Analyzed: 01/29/22

Benzene	0.0877	0.0020	mg/kg	0.100	ND	87.7	70-130			
Toluene	0.0933	0.0050	"	0.100	ND	93.3	70-130			
Ethylbenzene	0.0833	0.0050	"	0.100	ND	83.3	70-130			
m,p-Xylene	0.162	0.010	"	0.200	ND	81.0	70-130			
o-Xylene	0.0810	0.0050	"	0.100	ND	81.0	70-130			
1,2,4-Trimethylbenzene	0.0891	0.0050	"	0.100	ND	89.1	70-130			
1,3,5-Trimethylbenzene	0.0893	0.0050	"	0.100	ND	89.3	70-130			
Naphthalene	0.114	0.0038	"	0.100	ND	114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0604		"	0.0400		151	23-173			
Surrogate: Toluene-d8	0.0436		"	0.0400		109	20-170			
Surrogate: 4-Bromofluorobenzene	0.0427		"	0.0400		107	21-167			

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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/08/22 11:09

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 BFA0490 - EPA 5030 Soil MS

Matrix Spike Dup (BFA0490-MSD1)	Source: 2201363-01			Prepared & Analyzed: 01/29/22							
Benzene	0.0866	0.0020	mg/kg	0.100	ND	86.6	70-130	1.27	30		
Toluene	0.0983	0.0050	"	0.100	ND	98.3	70-130	5.29	30		
Ethylbenzene	0.0794	0.0050	"	0.100	ND	79.4	70-130	4.79	30		
m,p-Xylene	0.168	0.010	"	0.200	ND	83.8	70-130	3.31	30		
o-Xylene	0.0850	0.0050	"	0.100	ND	85.0	70-130	4.81	30		
1,2,4-Trimethylbenzene	0.0869	0.0050	"	0.100	ND	86.9	70-130	2.52	30		
1,3,5-Trimethylbenzene	0.0870	0.0050	"	0.100	ND	87.0	70-130	2.59	30		
Naphthalene	0.116	0.0038	"	0.100	ND	116	70-130	1.69	30		
Surrogate: 1,2-Dichloroethane-d4	0.0592		"	0.0400		148	23-173				
Surrogate: Toluene-d8	0.0450		"	0.0400		113	20-170				
Surrogate: 4-Bromofluorobenzene	0.0467		"	0.0400		117	21-167				

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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/08/22 11:09

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 BFA0491 - EPA 3550A

Blank (BFA0491-BLK1)

Prepared & Analyzed: 01/29/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BFA0491-BS1)

Prepared & Analyzed: 01/29/22

C10-C28 (DRO)	557	50	mg/kg	500	111	70-130				
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Matrix Spike (BFA0491-MS1)

Source: 2201363-01

Prepared & Analyzed: 01/29/22

C10-C28 (DRO)	547	50	mg/kg	500	28.0	104	70-130			
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Matrix Spike Dup (BFA0491-MSD1)

Source: 2201363-01

Prepared & Analyzed: 01/29/22

C10-C28 (DRO)	582	50	mg/kg	500	28.0	111	70-130	6.26	20	
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/08/22 11:09

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 BFA0492 - EPA 5030 Soil MS

Blank (BFA0492-BLK1)

Prepared & Analyzed: 01/31/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0209		"	0.0333		62.6	40-150			
Surrogate: Fluoranthene-d10	0.0218		"	0.0333		65.4	40-150			

LCS (BFA0492-BS1)

Prepared: 01/31/22 Analyzed: 02/01/22

Acenaphthene	0.0219	0.00500	mg/kg	0.0333		65.7	31-137			
Anthracene	0.0227	0.00500	"	0.0333		68.0	30-120			
Benzo (a) anthracene	0.0224	0.00500	"	0.0333		67.3	30-120			
Benzo (a) pyrene	0.0216	0.00500	"	0.0333		64.7	30-120			
Benzo (b) fluoranthene	0.0224	0.00500	"	0.0333		67.1	30-120			
Benzo (k) fluoranthene	0.0272	0.00500	"	0.0333		81.7	30-120			
Chrysene	0.0235	0.00500	"	0.0333		70.5	30-120			
Dibenz (a,h) anthracene	0.0216	0.00500	"	0.0333		64.9	30-120			
Fluoranthene	0.0243	0.00500	"	0.0333		73.0	30-120			
Fluorene	0.0234	0.00500	"	0.0333		70.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0239	0.00500	"	0.0333		71.6	30-120			
Pyrene	0.0235	0.00500	"	0.0333		70.6	35-142			
1-Methylnaphthalene	0.0205	0.00500	"	0.0333		61.4	35-142			
2-Methylnaphthalene	0.0197	0.00500	"	0.0333		59.1	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0211		"	0.0333		63.4	40-150			
Surrogate: Fluoranthene-d10	0.0241		"	0.0333		72.4	40-150			

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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/08/22 11:09

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 BFA0492 - EPA 5030 Soil MS

Matrix Spike (BFA0492-MS1)		Source: 2201363-01			Prepared: 01/31/22 Analyzed: 02/01/22					
Acenaphthene	0.0173	0.00500	mg/kg	0.0333	ND	51.9	31-137			
Anthracene	0.0173	0.00500	"	0.0333	ND	52.0	30-120			
Benzo (a) anthracene	0.0170	0.00500	"	0.0333	ND	51.0	30-120			
Benzo (a) pyrene	0.0169	0.00500	"	0.0333	ND	50.8	30-120			
Benzo (b) fluoranthene	0.0196	0.00500	"	0.0333	ND	58.8	30-120			
Benzo (k) fluoranthene	0.0237	0.00500	"	0.0333	ND	71.0	30-120			
Chrysene	0.0198	0.00500	"	0.0333	ND	59.5	30-120			
Dibenz (a,h) anthracene	0.0177	0.00500	"	0.0333	ND	53.1	30-120			
Fluoranthene	0.00921	0.00500	"	0.0333	ND	27.6	30-120			QM-07
Fluorene	0.0198	0.00500	"	0.0333	ND	59.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0157	0.00500	"	0.0333	ND	47.1	30-120			
Pyrene	0.0350	0.00500	"	0.0333	ND	105	35-142			
1-Methylnaphthalene	0.0189	0.00500	"	0.0333	ND	56.6	15-130			
2-Methylnaphthalene	0.0182	0.00500	"	0.0333	ND	54.5	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0197</i>		"	<i>0.0333</i>		<i>59.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0128</i>		"	<i>0.0333</i>		<i>38.3</i>	<i>40-150</i>			S-02

Matrix Spike Dup (BFA0492-MSD1)		Source: 2201363-01			Prepared: 01/31/22 Analyzed: 02/01/22					
Acenaphthene	0.0188	0.00500	mg/kg	0.0333	ND	56.3	31-137	8.00	30	
Anthracene	0.0172	0.00500	"	0.0333	ND	51.5	30-120	1.04	30	
Benzo (a) anthracene	0.0183	0.00500	"	0.0333	ND	54.8	30-120	7.24	30	
Benzo (a) pyrene	0.0228	0.00500	"	0.0333	ND	68.4	30-120	29.6	30	
Benzo (b) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.5	30-120	6.06	30	
Benzo (k) fluoranthene	0.0246	0.00500	"	0.0333	ND	73.8	30-120	3.91	30	
Chrysene	0.0201	0.00500	"	0.0333	ND	60.4	30-120	1.63	30	
Dibenz (a,h) anthracene	0.0207	0.00500	"	0.0333	ND	62.0	30-120	15.4	30	
Fluoranthene	0.00980	0.00500	"	0.0333	ND	29.4	30-120	6.21	30	QM-07
Fluorene	0.0202	0.00500	"	0.0333	ND	60.7	30-120	2.22	30	
Indeno (1,2,3-cd) pyrene	0.0238	0.00500	"	0.0333	ND	71.5	30-120	41.1	30	QM-07
Pyrene	0.0391	0.00500	"	0.0333	ND	117	35-142	11.0	30	
1-Methylnaphthalene	0.0187	0.00500	"	0.0333	ND	56.2	15-130	0.849	50	
2-Methylnaphthalene	0.0191	0.00500	"	0.0333	ND	57.2	15-130	4.92	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0203</i>		"	<i>0.0333</i>		<i>60.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0194</i>		"	<i>0.0333</i>		<i>58.3</i>	<i>40-150</i>			

Summit Scientific

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

Project: CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/08/22 11:09

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.
- 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.
- 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

March 17, 2022

Jeb Watts

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: DCP - CR 42/13

Work Order #2203212

Enclosed are the results of analyses for samples received by Summit Scientific on 03/14/22 15:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW56@24'	2203212-01	Soil	03/14/22 09:58	03/14/22 15:45
MW56@28'	2203212-02	Soil	03/14/22 10:00	03/14/22 15:45
MW57@24'	2203212-03	Soil	03/14/22 12:30	03/14/22 15:45
MW57@28'	2203212-04	Soil	03/14/22 12:35	03/14/22 15:45
MW58@24'	2203212-05	Soil	03/14/22 14:50	03/14/22 15:45
MW58@28'	2203212-06	Soil	03/14/22 14:55	03/14/22 15:45

Summit Scientific

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Sample Receipt Checklist

S2 Work Order# 2203212

Client: Tasman-DCP Client Project ID: CR42 & CR13

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____ (Describe)

Temp (°C)	<u>8.3</u>
-----------	------------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>ON ICE</u>
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Sameday</u>
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽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, H2SO4, NaOH, HNO3, 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 or Initials

3-14-21
Date/Time



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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

MW56@24'
2203212-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/14/22 09:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFC0271	03/14/22	03/14/22	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: **03/14/22 09:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		98.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		99.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/14/22 09:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFC0272	03/14/22	03/14/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/14/22 09:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		97.3 %		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 - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

MW56@24'
2203212-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/14/22 09:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.00500		mg/kg	1	BFC0275	03/15/22	03/16/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **03/14/22 09:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10		72.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.5 %		40-150		"	"	"	"	

Summit Scientific

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

MW56@28'
2203212-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/14/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFC0271	03/14/22	03/14/22	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: **03/14/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/14/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0272	03/14/22	03/14/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/14/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		87.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

MW56@28'
2203212-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/14/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFC0275	03/15/22	03/16/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/14/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		78.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		61.4 %	40-150		"	"	"	"	

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

MW57@24'
2203212-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/14/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFC0271	03/14/22	03/14/22	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: **03/14/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/14/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0272	03/14/22	03/14/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/14/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		86.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

MW57@24'
2203212-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/14/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFC0275	03/15/22	03/16/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/14/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		70.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.1 %	40-150		"	"	"	"	

Summit Scientific

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

MW57@28'
2203212-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/14/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFC0271	03/14/22	03/14/22	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: **03/14/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/14/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0272	03/14/22	03/14/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/14/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		88.0 %	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 - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

MW57@28'
2203212-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/14/22 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFC0275	03/15/22	03/16/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/14/22 12:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10		74.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		52.5 %	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 - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

MW58@24'
2203212-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/14/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFC0271	03/14/22	03/14/22	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: **03/14/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/14/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0272	03/14/22	03/14/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/14/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		88.5 %	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 - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

MW58@24'
2203212-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/14/22 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.00500		mg/kg	1	BFC0275	03/15/22	03/16/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **03/14/22 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10		91.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		70.6 %		40-150		"	"	"	"	

Summit Scientific

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



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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

MW58@28'
2203212-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/14/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFC0271	03/14/22	03/14/22	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: **03/14/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/14/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0272	03/14/22	03/14/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/14/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		86.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

MW58@28'
2203212-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/14/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFC0275	03/15/22	03/16/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/14/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		87.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		64.8 %	40-150		"	"	"	"	

Summit Scientific

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

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 BFC0271 - EPA 5030 Soil MS

Blank (BFC0271-BLK1)

Prepared: 03/14/22 Analyzed: 03/15/22

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	0.0381		"	0.0400		95.3	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.6	50-150			

LCS (BFC0271-BS1)

Prepared: 03/14/22 Analyzed: 03/15/22

Benzene	0.0565	0.0020	mg/kg	0.0750		75.3	70-130			
Toluene	0.0608	0.0050	"	0.0750		81.1	70-130			
Ethylbenzene	0.0636	0.0050	"	0.0750		84.8	70-130			
m,p-Xylene	0.133	0.010	"	0.150		88.9	70-130			
o-Xylene	0.0638	0.0050	"	0.0750		85.1	70-130			
1,2,4-Trimethylbenzene	0.0694	0.0050	"	0.0750		92.6	70-130			
1,3,5-Trimethylbenzene	0.0682	0.0050	"	0.0750		90.9	70-130			
Naphthalene	0.0649	0.0038	"	0.0750		86.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0356		"	0.0400		89.1	50-150			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	50-150			

Matrix Spike (BFC0271-MS1)

Source: 2203210-01

Prepared: 03/14/22 Analyzed: 03/15/22

Benzene	0.0612	0.0020	mg/kg	0.0750	ND	81.6	70-130			
Toluene	0.0761	0.0050	"	0.0750	ND	101	70-130			
Ethylbenzene	0.0669	0.0050	"	0.0750	ND	89.2	70-130			
m,p-Xylene	0.146	0.010	"	0.150	ND	97.2	70-130			
o-Xylene	0.0696	0.0050	"	0.0750	ND	92.8	70-130			
1,2,4-Trimethylbenzene	0.0756	0.0050	"	0.0750	ND	101	70-130			
1,3,5-Trimethylbenzene	0.0734	0.0050	"	0.0750	ND	97.9	70-130			
Naphthalene	0.0797	0.0038	"	0.0750	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0383		"	0.0400		95.8	50-150			
Surrogate: Toluene-d8	0.0414		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		102	50-150			

Summit Scientific

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

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 BFC0271 - EPA 5030 Soil MS

Matrix Spike Dup (BFC0271-MSD1)	Source: 2203210-01			Prepared: 03/14/22 Analyzed: 03/15/22						
Benzene	0.0617	0.0020	mg/kg	0.0750	ND	82.3	70-130	0.879	30	
Toluene	0.0747	0.0050	"	0.0750	ND	99.6	70-130	1.91	30	
Ethylbenzene	0.0652	0.0050	"	0.0750	ND	86.9	70-130	2.54	30	
m,p-Xylene	0.144	0.010	"	0.150	ND	96.0	70-130	1.22	30	
o-Xylene	0.0681	0.0050	"	0.0750	ND	90.8	70-130	2.27	30	
1,2,4-Trimethylbenzene	0.0739	0.0050	"	0.0750	ND	98.6	70-130	2.25	30	
1,3,5-Trimethylbenzene	0.0712	0.0050	"	0.0750	ND	95.0	70-130	3.03	30	
Naphthalene	0.0820	0.0038	"	0.0750	ND	109	70-130	2.78	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.0</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0407</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			

Summit Scientific

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

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 BFC0272 - EPA 3550A

Blank (BFC0272-BLK1)

Prepared: 03/14/22 Analyzed: 03/15/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								

LCS (BFC0272-BS1)

Prepared: 03/14/22 Analyzed: 03/15/22

C10-C28 (DRO)	456	50	mg/kg	500	32.1	80.7	70-130				
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Matrix Spike (BFC0272-MS1)

Source: 2203210-01

Prepared: 03/14/22 Analyzed: 03/15/22

C10-C28 (DRO)	435	50	mg/kg	500	32.1	80.7	70-130				
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Matrix Spike Dup (BFC0272-MSD1)

Source: 2203210-01

Prepared: 03/14/22 Analyzed: 03/15/22

C10-C28 (DRO)	435	50	mg/kg	500	32.1	80.7	70-130	0.00253	20		
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Summit Scientific

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFC0275 - EPA 5030 Soil MS

Blank (BFC0275-BLK1)

Prepared: 03/15/22 Analyzed: 03/16/22

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>0.0300</i>		"	<i>0.0333</i>		<i>89.9</i>		<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0245</i>		"	<i>0.0333</i>		<i>73.6</i>		<i>40-150</i>			

LCS (BFC0275-BS1)

Prepared: 03/15/22 Analyzed: 03/16/22

Acenaphthene	0.0203	0.00500	mg/kg	0.0333	60.8	31-137
Anthracene	0.0221	0.00500	"	0.0333	66.4	30-120
Benzo (a) anthracene	0.0227	0.00500	"	0.0333	68.1	30-120
Benzo (a) pyrene	0.0184	0.00500	"	0.0333	55.2	30-120
Benzo (b) fluoranthene	0.0192	0.00500	"	0.0333	57.5	30-120
Benzo (k) fluoranthene	0.0192	0.00500	"	0.0333	57.7	30-120
Chrysene	0.0224	0.00500	"	0.0333	67.2	30-120
Dibenz (a,h) anthracene	0.0145	0.00500	"	0.0333	43.6	30-120
Fluoranthene	0.0231	0.00500	"	0.0333	69.4	30-120
Fluorene	0.0207	0.00500	"	0.0333	62.1	30-120
Indeno (1,2,3-cd) pyrene	0.0108	0.00500	"	0.0333	32.5	30-120
Pyrene	0.0227	0.00500	"	0.0333	68.1	35-142
1-Methylnaphthalene	0.0265	0.00500	"	0.0333	79.4	35-142
2-Methylnaphthalene	0.0260	0.00500	"	0.0333	77.9	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0293</i>		"	<i>0.0333</i>	<i>87.9</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0263</i>		"	<i>0.0333</i>	<i>78.8</i>	<i>40-150</i>

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

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 BFC0275 - EPA 5030 Soil MS

Matrix Spike (BFC0275-MS1)	Source: 2203212-01			Prepared: 03/15/22 Analyzed: 03/16/22						
Acenaphthene	0.0190	0.00500	mg/kg	0.0333	ND	57.1	31-137			
Anthracene	0.0206	0.00500	"	0.0333	ND	61.8	30-120			
Benzo (a) anthracene	0.0212	0.00500	"	0.0333	ND	63.6	30-120			
Benzo (a) pyrene	0.0171	0.00500	"	0.0333	ND	51.4	30-120			
Benzo (b) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.7	30-120			
Benzo (k) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.6	30-120			
Chrysene	0.0206	0.00500	"	0.0333	ND	61.9	30-120			
Dibenz (a,h) anthracene	0.0146	0.00500	"	0.0333	ND	43.8	30-120			
Fluoranthene	0.0213	0.00500	"	0.0333	ND	64.0	30-120			
Fluorene	0.0193	0.00500	"	0.0333	ND	57.9	30-120			
Indeno (1,2,3-cd) pyrene	0.0170	0.00500	"	0.0333	ND	51.1	30-120			
Pyrene	0.0213	0.00500	"	0.0333	ND	63.9	35-142			
1-Methylnaphthalene	0.0232	0.00500	"	0.0333	ND	69.6	15-130			
2-Methylnaphthalene	0.0249	0.00500	"	0.0333	ND	74.6	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0270</i>		<i>"</i>	<i>0.0333</i>		<i>81.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0247</i>		<i>"</i>	<i>0.0333</i>		<i>74.1</i>	<i>40-150</i>			

Matrix Spike Dup (BFC0275-MSD1)	Source: 2203212-01			Prepared: 03/15/22 Analyzed: 03/16/22						
Acenaphthene	0.0185	0.00500	mg/kg	0.0333	ND	55.4	31-137	2.91	30	
Anthracene	0.0191	0.00500	"	0.0333	ND	57.3	30-120	7.47	30	
Benzo (a) anthracene	0.0193	0.00500	"	0.0333	ND	57.9	30-120	9.39	30	
Benzo (a) pyrene	0.0156	0.00500	"	0.0333	ND	46.7	30-120	9.66	30	
Benzo (b) fluoranthene	0.0163	0.00500	"	0.0333	ND	48.8	30-120	7.53	30	
Benzo (k) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.5	30-120	10.3	30	
Chrysene	0.0185	0.00500	"	0.0333	ND	55.5	30-120	11.0	30	
Dibenz (a,h) anthracene	0.0119	0.00500	"	0.0333	ND	35.7	30-120	20.2	30	
Fluoranthene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	9.34	30	
Fluorene	0.0181	0.00500	"	0.0333	ND	54.2	30-120	6.54	30	
Indeno (1,2,3-cd) pyrene	0.0185	0.00500	"	0.0333	ND	55.6	30-120	8.42	30	
Pyrene	0.0191	0.00500	"	0.0333	ND	57.4	35-142	10.8	30	
1-Methylnaphthalene	0.0217	0.00500	"	0.0333	ND	65.0	15-130	6.81	50	
2-Methylnaphthalene	0.0208	0.00500	"	0.0333	ND	62.3	15-130	18.0	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0247</i>		<i>"</i>	<i>0.0333</i>		<i>74.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0228</i>		<i>"</i>	<i>0.0333</i>		<i>68.5</i>	<i>40-150</i>			

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/17/22 15:46

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

March 24, 2022

Jeb Watts

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: DCP - CR 42/13

Work Order #2203233

Enclosed are the results of analyses for samples received by Summit Scientific on 03/15/22 16:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/24/22 12:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW63B@27'	2203233-01	Soil	03/15/22 10:10	03/15/22 16:05
MW63B@28'	2203233-02	Soil	03/15/22 10:15	03/15/22 16:05
MW62@24'	2203233-03	Soil	03/15/22 14:50	03/15/22 16:05
MW62@28'	2203233-04	Soil	03/15/22 14:55	03/15/22 16:05

Summit Scientific

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Summit Scientific

S₂

2203233

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

Client: Tasman - DCP Project Manager: J. Watts
 Address: 6855 Willet Ave E-Mail: swent@sedepmidstream.com; dhumphreys@tasman-geo.com
 City/State/Zip: Broomfield CO 80020 jwatts@tasman-geo.com
 Phone: 303-520-0298 Project Name: CR42 and CR13
 Sampler Name: Steve Casaleggio / Job Watts Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Table 915-1 Organics	TPH-6RO,ORO	1,2 Methylphthalene	
1	MW 63B @ 27'	3/15/22	10:10	2			X			X			X	X	X	See analyte list below
2	MW 63B @ 28'		10:15	2			X		X			X	X	X		
3	MW 62 @ 24'		14:50	2			X		X			X	X	X		
4	MW 62 @ 28'		14:55	2			X		X			X	X	X		
5																
6																
7																
8																
9																
10																

Relinquished by: [Signature] Date/Time: 3/15/22 16:05 Received by: [Signature] Date/Time: 3/15/22 16:05
 Turn Around Time (Check): Same Day 72 hours Standard
 24 hours 48 hours
 Sample Integrity: Samples Intact: Yes No
 Notes: • Table 915-1 Organics
 • TPH, PRO, GRO, ORO
 • 1 methylphthalene
 • 2 methylphthalene

S₂

2203233

Sample Receipt Checklist

S2 Work Order#

Client: Tasman - DUP Client Project ID: CR42 and CR13

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C) 15.9

Thermometer ID: G86A9201901378

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ice</u>
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>same day</u>
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽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.

JMO
Custodian Printed Name or Initials

3/15/22
Date/Time



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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/24/22 12:11

MW63B@27'
2203233-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/15/22 10:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BFC0312	03/15/22	03/15/22	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: **03/15/22 10:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		98.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/15/22 10:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0313	03/15/22	03/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/15/22 10:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		84.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/24/22 12:11

MW63B@27'
2203233-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/15/22 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.00500		mg/kg	1	BFC0315	03/16/22	03/17/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **03/15/22 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10		70.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		51.3 %		40-150		"	"	"	"	

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Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/24/22 12:11

MW63B@28'
2203233-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFC0312	03/15/22	03/15/22	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: **03/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0313	03/15/22	03/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		88.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/24/22 12:11

MW63B@28'
2203233-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **03/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFC0315	03/16/22	03/17/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/15/22 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		70.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		59.6 %	40-150		"	"	"	"	

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Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/24/22 12:11

MW62@24'
2203233-03 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/15/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFC0312	03/15/22	03/15/22	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: **03/15/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/15/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0313	03/15/22	03/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/15/22 14:50**

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

PAH by EPA Method 8270D SIM

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Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/24/22 12:11

MW62@24'
2203233-03 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **03/15/22 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.00500		mg/kg	1	BFC0315	03/16/22	03/17/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **03/15/22 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10		66.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		51.7 %		40-150		"	"	"	"	

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Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/24/22 12:11

MW62@28'
2203233-04 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/15/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFC0312	03/15/22	03/15/22	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: **03/15/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/15/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0313	03/15/22	03/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/15/22 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		83.7 %	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 - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/24/22 12:11

MW62@28'
2203233-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/15/22 14:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.00500		mg/kg	1	BFC0315	03/16/22	03/17/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **03/15/22 14:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10		74.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.9 %		40-150		"	"	"	"	

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Tasman Geosciences
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Broomfield CO, 80020

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/24/22 12:11

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 BFC0312 - EPA 5030 Soil MS

Blank (BFC0312-BLK1)

Prepared: 03/15/22 Analyzed: 03/16/22

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	0.0364		"	0.0400		91.0	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400		95.2	50-150			

LCS (BFC0312-BS1)

Prepared: 03/15/22 Analyzed: 03/16/22

Benzene	0.0587	0.0020	mg/kg	0.0750		78.3	70-130			
Toluene	0.0629	0.0050	"	0.0750		83.8	70-130			
Ethylbenzene	0.0656	0.0050	"	0.0750		87.5	70-130			
m,p-Xylene	0.139	0.010	"	0.150		92.9	70-130			
o-Xylene	0.0672	0.0050	"	0.0750		89.6	70-130			
1,2,4-Trimethylbenzene	0.0701	0.0050	"	0.0750		93.5	70-130			
1,3,5-Trimethylbenzene	0.0692	0.0050	"	0.0750		92.2	70-130			
Naphthalene	0.0592	0.0038	"	0.0750		79.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0353		"	0.0400		88.4	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	50-150			

Matrix Spike (BFC0312-MS1)

Source: 2203233-01

Prepared: 03/15/22 Analyzed: 03/16/22

Benzene	0.0585	0.0020	mg/kg	0.0750	ND	78.0	70-130			
Toluene	0.0638	0.0050	"	0.0750	ND	85.0	70-130			
Ethylbenzene	0.0644	0.0050	"	0.0750	ND	85.8	70-130			
m,p-Xylene	0.138	0.010	"	0.150	ND	92.2	70-130			
o-Xylene	0.0672	0.0050	"	0.0750	ND	89.6	70-130			
1,2,4-Trimethylbenzene	0.0710	0.0050	"	0.0750	ND	94.6	70-130			
1,3,5-Trimethylbenzene	0.0694	0.0050	"	0.0750	ND	92.5	70-130			
Naphthalene	0.0676	0.0038	"	0.0750	ND	90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0380		"	0.0400		95.0	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	50-150			

Summit Scientific

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/24/22 12:11

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 BFC0312 - EPA 5030 Soil MS

Matrix Spike Dup (BFC0312-MSD1)	Source: 2203233-01			Prepared: 03/15/22 Analyzed: 03/16/22						
Benzene	0.0580	0.0020	mg/kg	0.0750	ND	77.3	70-130	0.876	30	
Toluene	0.0649	0.0050	"	0.0750	ND	86.6	70-130	1.77	30	
Ethylbenzene	0.0647	0.0050	"	0.0750	ND	86.3	70-130	0.511	30	
m,p-Xylene	0.138	0.010	"	0.150	ND	92.3	70-130	0.0867	30	
o-Xylene	0.0668	0.0050	"	0.0750	ND	89.0	70-130	0.717	30	
1,2,4-Trimethylbenzene	0.0725	0.0050	"	0.0750	ND	96.6	70-130	2.09	30	
1,3,5-Trimethylbenzene	0.0710	0.0050	"	0.0750	ND	94.7	70-130	2.35	30	
Naphthalene	0.0814	0.0038	"	0.0750	ND	109	70-130	18.5	30	
Surrogate: 1,2-Dichloroethane-d4	0.0391		"	0.0400		97.8	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0400		102	50-150			

Summit Scientific

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Broomfield CO, 80020

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/24/22 12:11

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 BFC0313 - EPA 3550A

Blank (BFC0313-BLK1)

Prepared: 03/15/22 Analyzed: 03/16/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BFC0313-BS1)

Prepared: 03/15/22 Analyzed: 03/16/22

C10-C28 (DRO)	498	50	mg/kg	500	99.7	70-130				
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Matrix Spike (BFC0313-MS1)

Source: 2203232-01

Prepared: 03/15/22 Analyzed: 03/16/22

C10-C28 (DRO)	475	50	mg/kg	500	15.7	91.8	70-130			
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Matrix Spike Dup (BFC0313-MSD1)

Source: 2203232-01

Prepared: 03/15/22 Analyzed: 03/16/22

C10-C28 (DRO)	467	50	mg/kg	500	15.7	90.3	70-130	1.54	20	
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Summit Scientific

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6855 W. 119th Ave.
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Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/24/22 12:11

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 BFC0315 - EPA 5030 Soil MS

Blank (BFC0315-BLK1)

Prepared: 03/16/22 Analyzed: 03/17/22

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>	0.0279		"	0.0333		83.6	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0222		"	0.0333		66.6	40-150			

LCS (BFC0315-BS1)

Prepared: 03/16/22 Analyzed: 03/19/22

Acenaphthene	0.0266	0.00500	mg/kg	0.0333		79.9	31-137			
Anthracene	0.0270	0.00500	"	0.0333		81.1	30-120			
Benzo (a) anthracene	0.0275	0.00500	"	0.0333		82.5	30-120			
Benzo (a) pyrene	0.0346	0.00500	"	0.0333		104	30-120			
Benzo (b) fluoranthene	0.0308	0.00500	"	0.0333		92.5	30-120			
Benzo (k) fluoranthene	0.0361	0.00500	"	0.0333		108	30-120			
Chrysene	0.0318	0.00500	"	0.0333		95.5	30-120			
Dibenz (a,h) anthracene	0.0342	0.00500	"	0.0333		103	30-120			
Fluoranthene	0.0297	0.00500	"	0.0333		89.2	30-120			
Fluorene	0.0287	0.00500	"	0.0333		86.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0250	0.00500	"	0.0333		75.0	30-120			
Pyrene	0.0313	0.00500	"	0.0333		94.0	35-142			
1-Methylnaphthalene	0.0237	0.00500	"	0.0333		71.0	35-142			
2-Methylnaphthalene	0.0221	0.00500	"	0.0333		66.4	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0232		"	0.0333		69.7	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0281		"	0.0333		84.4	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 - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/24/22 12:11

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 BFC0315 - EPA 5030 Soil MS

Matrix Spike (BFC0315-MS1)	Source: 2203232-01			Prepared: 03/16/22 Analyzed: 03/19/22						
Acenaphthene	0.0170	0.00500	mg/kg	0.0333	ND	51.0	31-137			
Anthracene	0.0184	0.00500	"	0.0333	ND	55.1	30-120			
Benzo (a) anthracene	0.0185	0.00500	"	0.0333	ND	55.6	30-120			
Benzo (a) pyrene	0.0213	0.00500	"	0.0333	ND	63.8	30-120			
Benzo (b) fluoranthene	0.0174	0.00500	"	0.0333	ND	52.3	30-120			
Benzo (k) fluoranthene	0.0195	0.00500	"	0.0333	ND	58.4	30-120			
Chrysene	0.0209	0.00500	"	0.0333	ND	62.8	30-120			
Dibenz (a,h) anthracene	0.0258	0.00500	"	0.0333	ND	77.3	30-120			
Fluoranthene	0.0202	0.00500	"	0.0333	ND	60.6	30-120			
Fluorene	0.0172	0.00500	"	0.0333	ND	51.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0245	0.00500	"	0.0333	ND	73.5	30-120			
Pyrene	0.0203	0.00500	"	0.0333	0.00266	52.9	35-142			
1-Methylnaphthalene	0.0188	0.00500	"	0.0333	ND	56.5	15-130			
2-Methylnaphthalene	0.0229	0.00500	"	0.0333	0.00524	52.9	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0179</i>		<i>"</i>	<i>0.0333</i>		<i>53.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0206</i>		<i>"</i>	<i>0.0333</i>		<i>61.8</i>	<i>40-150</i>			

Matrix Spike Dup (BFC0315-MSD1)	Source: 2203232-01			Prepared: 03/16/22 Analyzed: 03/19/22						
Acenaphthene	0.0135	0.00500	mg/kg	0.0333	ND	40.4	31-137	23.1	30	
Anthracene	0.0137	0.00500	"	0.0333	ND	41.1	30-120	29.1	30	
Benzo (a) anthracene	0.0160	0.00500	"	0.0333	ND	48.1	30-120	14.5	30	
Benzo (a) pyrene	0.0181	0.00500	"	0.0333	ND	54.3	30-120	16.0	30	
Benzo (b) fluoranthene	0.0148	0.00500	"	0.0333	ND	44.5	30-120	16.1	30	
Benzo (k) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.4	30-120	18.7	30	
Chrysene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	17.3	30	
Dibenz (a,h) anthracene	0.0220	0.00500	"	0.0333	ND	66.1	30-120	15.6	30	
Fluoranthene	0.0213	0.00500	"	0.0333	ND	63.8	30-120	5.18	30	
Fluorene	0.0129	0.00500	"	0.0333	ND	38.7	30-120	28.7	30	
Indeno (1,2,3-cd) pyrene	0.0397	0.00500	"	0.0333	ND	119	30-120	47.4	30	
Pyrene	0.0176	0.00500	"	0.0333	0.00266	44.8	35-142	14.3	30	
1-Methylnaphthalene	0.0140	0.00500	"	0.0333	ND	41.9	15-130	29.7	50	
2-Methylnaphthalene	0.0164	0.00500	"	0.0333	0.00524	33.4	15-130	33.0	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0146</i>		<i>"</i>	<i>0.0333</i>		<i>43.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0164</i>		<i>"</i>	<i>0.0333</i>		<i>49.1</i>	<i>40-150</i>			

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Jeb Watts

Reported:
03/24/22 12:11

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

March 24, 2022

Brian Humphrey
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: DCP - CR 42/13
Work Order #2203260

Enclosed are the results of analyses for samples received by Summit Scientific on 03/16/22 17:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



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

Project: DCP - CR 42/13

Project Number: [none]

Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW61@24'	2203260-01	Soil	03/16/22 09:45	03/16/22 17:25
MW61@28'	2203260-02	Soil	03/16/22 09:50	03/16/22 17:25
MW60@27.5'	2203260-03	Soil	03/16/22 12:00	03/16/22 17:25
MW60@28'	2203260-04	Soil	03/16/22 12:05	03/16/22 17:25
MW59@25.5'	2203260-05	Soil	03/16/22 14:25	03/16/22 17:25
MW59@27.5'	2203260-06	Soil	03/16/22 14:30	03/16/22 17:25

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.

2203260

Summit Scientific

S₂

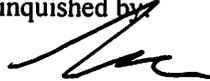
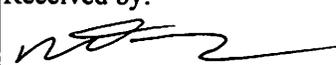
4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Tasman - DCP Project Manager: B. Humphrey / J. Watts
 Address: 6855 W 119th Ave E-Mail: bhumphrey@tasman-geo.com ; SWweather@edepmidstan.com
 City/State/Zip: Broomfield CO 80020 j.watts@tasman-geo.com
 Phone: 303-520-0298 Project Name: CR 42 and CR 13
 Sampler Name: Steve Casa Legido Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Table 915-1 Organics	TPH - GRD/DRO/ARO	1,2,4-Methyl Impropyl Benzene			
1	MW61@24"	3/16/21	9:45	2			X						X	X	X			
2	MW61@28"		9:50	2			X						X	X	X			
3	MW60@27.5"		12:00	2			X						X	X	X			
4	MW60@28"		12:05	2			X						X	X	X			
5	MW59@25.5"		14:25	2			X						X	X	X			
6	MW59@27.5"		14:30	2			X						X	X	X			
7																		
8																		
9																		
10																		

Relinquished by: 	Date/Time: <u>3/16/21 17:25</u>	Received by: 	Date/Time: <u>16 MARCH 22 1725</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/>	
				24 hours <input type="checkbox"/> Standard <input type="checkbox"/>	
				48 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
				Temperature Upon Receipt: <u>8.8°C</u>	
				Samples Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>	

S₂

Sample Receipt Checklist

S2 Work Order# 2203260

Client: TASMAN Client Project ID: CR42 & CR13

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C) 8.8°C

Thermometer ID: G86A9201901378

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°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"/>	
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<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"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽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, H2SO4, NaOH, HNO3, 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 or Initials

16 March 22 1725
Date/Time



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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

MW61@24'
2203260-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/16/22 09:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BFC0333	03/16/22	03/16/22	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: **03/16/22 09:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/16/22 09:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0334	03/16/22	03/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/16/22 09:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		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 - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

MW61@24'
2203260-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/16/22 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.00500		mg/kg	1	BFC0337	03/17/22	03/18/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **03/16/22 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10		58.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.4 %		40-150		"	"	"	"	

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

MW61@28'
2203260-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/16/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFC0333	03/16/22	03/16/22	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: **03/16/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/16/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0334	03/16/22	03/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/16/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.1 %	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 - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

MW61@28'
2203260-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/16/22 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
1-Methylnaphthalene	ND	0.00500		mg/kg	1	BFC0337	03/17/22	03/18/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **03/16/22 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10		59.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		49.6 %		40-150		"	"	"	"	

Summit Scientific

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

MW60@27.5'
2203260-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/16/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFC0333	03/16/22	03/16/22	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: **03/16/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/16/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0334	03/16/22	03/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/16/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.3 %	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 - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

MW60@27.5'
2203260-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/16/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFC0337	03/17/22	03/18/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/16/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		50.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		44.9 %	40-150		"	"	"	"	

Summit Scientific

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

MW60@28'
2203260-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/16/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFC0333	03/16/22	03/16/22	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: **03/16/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/16/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0334	03/16/22	03/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/16/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

MW60@28'
2203260-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/16/22 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFC0337	03/17/22	03/18/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/16/22 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10		42.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.8 %	40-150		"	"	"	"	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

MW59@25.5'
2203260-05 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/16/22 14:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFC0333	03/16/22	03/16/22	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: **03/16/22 14:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		105 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/16/22 14:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFC0334	03/16/22	03/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **03/16/22 14:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		99.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

MW59@25.5'
2203260-05 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **03/16/22 14:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFC0337	03/17/22	03/18/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/16/22 14:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10		52.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		46.4 %	40-150		"	"	"	"	

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Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

MW59@27.5'
2203260-06 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/16/22 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BFC0333	03/16/22	03/16/22	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: **03/16/22 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/16/22 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0334	03/16/22	03/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/16/22 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		95.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

MW59@27.5'
2203260-06 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **03/16/22 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFC0337	03/17/22	03/18/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/16/22 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10		70.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		61.9 %	40-150		"	"	"	"	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

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 BFC0333 - EPA 5030 Soil MS

Blank (BFC0333-BLK1)

Prepared: 03/16/22 Analyzed: 03/17/22

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	0.0430		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		101	50-150			

LCS (BFC0333-BS1)

Prepared: 03/16/22 Analyzed: 03/17/22

Benzene	0.149	0.0020	mg/kg	0.150		99.1	70-130			
Toluene	0.145	0.0050	"	0.150		96.8	70-130			
Ethylbenzene	0.144	0.0050	"	0.150		95.7	70-130			
m,p-Xylene	0.282	0.010	"	0.300		93.9	70-130			
o-Xylene	0.140	0.0050	"	0.150		93.6	70-130			
1,2,4-Trimethylbenzene	0.147	0.0050	"	0.150		98.1	70-130			
1,3,5-Trimethylbenzene	0.146	0.0050	"	0.150		97.4	70-130			
Naphthalene	0.161	0.0038	"	0.150		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	50-150			

Matrix Spike (BFC0333-MS1)

Source: 2203260-01

Prepared: 03/16/22 Analyzed: 03/17/22

Benzene	0.148	0.0020	mg/kg	0.150	ND	98.4	70-130			
Toluene	0.143	0.0050	"	0.150	ND	95.3	70-130			
Ethylbenzene	0.136	0.0050	"	0.150	ND	90.4	70-130			
m,p-Xylene	0.262	0.010	"	0.300	ND	87.3	70-130			
o-Xylene	0.132	0.0050	"	0.150	ND	88.2	70-130			
1,2,4-Trimethylbenzene	0.133	0.0050	"	0.150	ND	88.8	70-130			
1,3,5-Trimethylbenzene	0.134	0.0050	"	0.150	ND	89.0	70-130			
Naphthalene	0.145	0.0038	"	0.150	ND	96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0439		"	0.0400		110	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	50-150			

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

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 BFC0333 - EPA 5030 Soil MS

Matrix Spike Dup (BFC0333-MSD1)	Source: 2203260-01			Prepared: 03/16/22 Analyzed: 03/17/22						
Benzene	0.143	0.0020	mg/kg	0.150	ND	95.3	70-130	3.28	30	
Toluene	0.139	0.0050	"	0.150	ND	92.5	70-130	3.00	30	
Ethylbenzene	0.137	0.0050	"	0.150	ND	91.1	70-130	0.705	30	
m,p-Xylene	0.264	0.010	"	0.300	ND	87.8	70-130	0.639	30	
o-Xylene	0.135	0.0050	"	0.150	ND	90.0	70-130	1.98	30	
1,2,4-Trimethylbenzene	0.137	0.0050	"	0.150	ND	91.3	70-130	2.82	30	
1,3,5-Trimethylbenzene	0.139	0.0050	"	0.150	ND	92.4	70-130	3.70	30	
Naphthalene	0.147	0.0038	"	0.150	ND	98.2	70-130	1.31	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0413</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.4</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

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 BFC0334 - EPA 3550A

Blank (BFC0334-BLK1)

Prepared: 03/16/22 Analyzed: 03/17/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BFC0334-BS1)

Prepared: 03/16/22 Analyzed: 03/17/22

C10-C28 (DRO)	538	50	mg/kg	500	108	70-130				
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Matrix Spike (BFC0334-MS1)

Source: 2203262-01

Prepared: 03/16/22 Analyzed: 03/17/22

C10-C28 (DRO)	649	50	mg/kg	500	24.4	125	70-130			
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Matrix Spike Dup (BFC0334-MSD1)

Source: 2203262-01

Prepared: 03/16/22 Analyzed: 03/17/22

C10-C28 (DRO)	661	50	mg/kg	500	24.4	127	70-130	1.79	20	
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

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 BFC0337 - EPA 5030 Soil MS

Blank (BFC0337-BLK1)

Prepared & Analyzed: 03/17/22

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>0.0231</i>		<i>"</i>	<i>0.0333</i>		<i>69.4</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0207</i>		<i>"</i>	<i>0.0333</i>		<i>62.2</i>	<i>40-150</i>			

LCS (BFC0337-BS1)

Prepared & Analyzed: 03/17/22

Acenaphthene	0.0206	0.00500	mg/kg	0.0333		61.7	31-137			
Anthracene	0.0206	0.00500	"	0.0333		61.9	30-120			
Benzo (a) anthracene	0.0224	0.00500	"	0.0333		67.2	30-120			
Benzo (a) pyrene	0.0193	0.00500	"	0.0333		58.0	30-120			
Benzo (b) fluoranthene	0.0197	0.00500	"	0.0333		59.2	30-120			
Benzo (k) fluoranthene	0.0202	0.00500	"	0.0333		60.7	30-120			
Chrysene	0.0220	0.00500	"	0.0333		66.1	30-120			
Dibenz (a,h) anthracene	0.0176	0.00500	"	0.0333		52.9	30-120			
Fluoranthene	0.0213	0.00500	"	0.0333		63.8	30-120			
Fluorene	0.0203	0.00500	"	0.0333		60.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0117	0.00500	"	0.0333		35.2	30-120			
Pyrene	0.0231	0.00500	"	0.0333		69.2	35-142			
1-Methylnaphthalene	0.0277	0.00500	"	0.0333		83.2	35-142			
2-Methylnaphthalene	0.0260	0.00500	"	0.0333		78.0	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0240</i>		<i>"</i>	<i>0.0333</i>		<i>71.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0215</i>		<i>"</i>	<i>0.0333</i>		<i>64.6</i>	<i>40-150</i>			

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

Project: DCP - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

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 BFC0337 - EPA 5030 Soil MS

Matrix Spike (BFC0337-MS1)	Source: 2203260-01			Prepared & Analyzed: 03/17/22						
Acenaphthene	0.0165	0.00500	mg/kg	0.0333	ND	49.6	31-137			
Anthracene	0.0173	0.00500	"	0.0333	ND	51.9	30-120			
Benzo (a) anthracene	0.0190	0.00500	"	0.0333	ND	57.1	30-120			
Benzo (a) pyrene	0.0166	0.00500	"	0.0333	ND	49.7	30-120			
Benzo (b) fluoranthene	0.0172	0.00500	"	0.0333	ND	51.7	30-120			
Benzo (k) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.5	30-120			
Chrysene	0.0183	0.00500	"	0.0333	ND	54.9	30-120			
Dibenz (a,h) anthracene	0.0138	0.00500	"	0.0333	ND	41.5	30-120			
Fluoranthene	0.0176	0.00500	"	0.0333	ND	52.9	30-120			
Fluorene	0.0158	0.00500	"	0.0333	ND	47.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0190	0.00500	"	0.0333	ND	57.1	30-120			
Pyrene	0.0184	0.00500	"	0.0333	ND	55.2	35-142			
1-Methylnaphthalene	0.0215	0.00500	"	0.0333	ND	64.6	15-130			
2-Methylnaphthalene	0.0208	0.00500	"	0.0333	ND	62.3	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0196</i>		"	<i>0.0333</i>		<i>58.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0178</i>		"	<i>0.0333</i>		<i>53.4</i>	<i>40-150</i>			

Matrix Spike Dup (BFC0337-MSD1)	Source: 2203260-01			Prepared: 03/17/22 Analyzed: 03/18/22						
Acenaphthene	0.0175	0.00500	mg/kg	0.0333	ND	52.5	31-137	5.64	30	
Anthracene	0.0207	0.00500	"	0.0333	ND	62.2	30-120	18.1	30	
Benzo (a) anthracene	0.0189	0.00500	"	0.0333	ND	56.8	30-120	0.427	30	
Benzo (a) pyrene	0.0172	0.00500	"	0.0333	ND	51.7	30-120	3.92	30	
Benzo (b) fluoranthene	0.0179	0.00500	"	0.0333	ND	53.6	30-120	3.55	30	
Benzo (k) fluoranthene	0.0144	0.00500	"	0.0333	ND	43.3	30-120	19.4	30	
Chrysene	0.0182	0.00500	"	0.0333	ND	54.8	30-120	0.270	30	
Dibenz (a,h) anthracene	0.0184	0.00500	"	0.0333	ND	55.3	30-120	28.4	30	
Fluoranthene	0.0186	0.00500	"	0.0333	ND	55.8	30-120	5.29	30	
Fluorene	0.0135	0.00500	"	0.0333	ND	40.6	30-120	15.8	30	
Indeno (1,2,3-cd) pyrene	0.0225	0.00500	"	0.0333	ND	67.5	30-120	16.8	30	
Pyrene	0.0155	0.00500	"	0.0333	ND	46.4	35-142	17.2	30	
1-Methylnaphthalene	0.0157	0.00500	"	0.0333	ND	47.1	15-130	31.4	50	
2-Methylnaphthalene	0.0187	0.00500	"	0.0333	ND	56.0	15-130	10.7	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0153</i>		"	<i>0.0333</i>		<i>46.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0154</i>		"	<i>0.0333</i>		<i>46.1</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 - CR 42/13

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/24/22 12:15

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

March 30, 2022

Tasman Geosciences

Jeb Watts

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. March 29, 2022. This project is associated with Origins project number Y203753-01.

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: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW41A	Y203753-01	Water	March 29, 2022 15:40	03/29/2022 17:43
MW41B	Y203753-02	Water	March 29, 2022 15:50	03/29/2022 17:43
MW41C	Y203753-03	Water	March 29, 2022 16:02	03/29/2022 17:43
MW47A	Y203753-04	Water	March 29, 2022 15:58	03/29/2022 17:43
MW47B	Y203753-05	Water	March 29, 2022 16:09	03/29/2022 17:43
MW48A	Y203753-06	Water	March 29, 2022 15:14	03/29/2022 17:43
MW48B	Y203753-07	Water	March 29, 2022 15:29	03/29/2022 17:43
MW49A	Y203753-08	Water	March 29, 2022 11:52	03/29/2022 17:43
MW49B	Y203753-09	Water	March 29, 2022 12:13	03/29/2022 17:43
MW50A	Y203753-10	Water	March 29, 2022 12:58	03/29/2022 17:43
MW50B	Y203753-11	Water	March 29, 2022 13:08	03/29/2022 17:43
MW51A	Y203753-12	Water	March 29, 2022 13:03	03/29/2022 17:43
MW51B	Y203753-13	Water	March 29, 2022 13:15	03/29/2022 17:43
MW52	Y203753-14	Water	March 29, 2022 12:46	03/29/2022 17:43

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: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW53	Y203753-15	Water	March 29, 2022 13:48	03/29/2022 17:43
MW54	Y203753-16	Water	March 29, 2022 13:40	03/29/2022 17:43
MW55	Y203753-17	Water	March 29, 2022 13:53	03/29/2022 17:43
MW56	Y203753-18	Water	March 29, 2022 12:51	03/29/2022 17:43
MW57	Y203753-19	Water	March 29, 2022 13:19	03/29/2022 17:43
MW58	Y203753-20	Water	March 29, 2022 13:23	03/29/2022 17:43
MW59	Y203753-21	Water	March 29, 2022 14:09	03/29/2022 17:43
MW60	Y203753-22	Water	March 29, 2022 14:04	03/29/2022 17:43
MW61	Y203753-23	Water	March 29, 2022 13:59	03/29/2022 17:43
MW62	Y203753-24	Water	March 29, 2022 13:28	03/29/2022 17:43
MW63B	Y203753-25	Water	March 29, 2022 12:37	03/29/2022 17:43

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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

www.originslaboratory.com

1703753

page 2 of 3

ORIGINS
 LABORATORY, INC

Client: DCP/Tasman
 Address: 6855 W 119th Ave
 Broomfield, CO 80020
 Telephone Number: 303-482-1222
 Email Address: jwatts@tasman-geo.com
 Project Manager: Jeb Watts / Steve Westhus
 Project Name: CR42/13
 Project Number:
 Samples Collected By: B.G., S.C., J.M.

Preservative: HCl, HNO₃, Other
 Matrix: Soil, Groundwater, Other
 Analysis: 915-T, 915-T

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Sample Instructions
				HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	
MW50B	3/29/08	1308	3	X			X				
MW51A		1303									
MW51B		1315									
MW52		1246									
MW53		1348									
MW54		1340									
MW55		1353									
MW56		1251									
MW57		1319									
MW58		1323									
Relinquished By: <i>Jeb Watts</i>	Date: 3/29/08	Time:	Received By: <i>SH</i>	Date: 3/27/08	Time: 1743	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>					

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

Date Results Needed

Temp Received- 4.1

Origins Laboratory, Inc.

Jen Pellegrini

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: DCP - CR42 & CR13

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1203753 Client: Tasman
 Client Project ID: CR42/13
 Checklist Completed by: JG Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 3/29/22 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1/4.1 °C / _____ °C / _____ °C / _____ °C (Describe)
 Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 3/29/22

Origins Laboratory, Inc.

Jefe Pellegrini

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: DCP - CR42 & CR13

MW41A

3/29/2022 3:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/29/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	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: DCP - CR42 & CR13

MW41B

3/29/2022 3:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/29/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	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: DCP - CR42 & CR13

MW41C

3/29/2022 4:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-03 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/29/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %	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: DCP - CR42 & CR13

MW47A

3/29/2022 3:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-04 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/29/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.2 %	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: DCP - CR42 & CR13

MW47B

3/29/2022 4:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-05 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/29/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	"
Surrogate: Toluene-d8	95.7 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	98.1 %	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: DCP - CR42 & CR13

MW48A

3/29/2022 3:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-06 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/29/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	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: DCP - CR42 & CR13

MW48B

3/29/2022 3:29:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-07 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/29/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %	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: DCP - CR42 & CR13

MW49A

3/29/2022 11:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-08 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/29/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.4 %	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW49B

3/29/2022 12:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-09 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/29/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"
Surrogate: Toluene-d8	95.5 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	95.3 %	70-130			"	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW50A

3/29/2022 12:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-10 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/29/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW50B

3/29/2022 1:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-11 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/29/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.1 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW51A

3/29/2022 1:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-12 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/29/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW51B

3/29/2022 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-13 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/29/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW52

3/29/2022 12:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-14 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/29/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW53

3/29/2022 1:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-15 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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: DCP - CR42 & CR13

MW54

3/29/2022 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-16 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW55

3/29/2022 1:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y203753-17 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"
Surrogate: Toluene-d8	94.9 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	96.3 %	70-130			"	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW56

3/29/2022 12:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-18 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	96.4 %	70-130			"	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW57

3/29/2022 1:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-19 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW58

3/29/2022 1:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-20 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2928	ZZZ	03/29/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW59

3/29/2022 2:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-21 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2930	ZZZ	03/29/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	03/29/2022
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW60

3/29/2022 2:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-22 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2930	ZZZ	03/29/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW61

3/29/2022 1:59:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-23 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2930	ZZZ	03/29/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW62

3/29/2022 1:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-24 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2930	ZZZ	03/29/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW63B

3/29/2022 12:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203753-25 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C2930	ZZZ	03/29/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	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: DCP - CR42 & CR13

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 B2C2928 - EPA 5030B (Water)

Blank (B2C2928-BLK1)

Prepared: 03/29/2022 Analyzed: 03/29/2022

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	65		"	62.5	104		70-130			
Surrogate: Toluene-d8	60		"	62.5	95.7		70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102		70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

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

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

Batch B2C2928 - EPA 5030B (Water)

LCS (B2C2928-BS1)

Prepared: 03/29/2022 Analyzed: 03/29/2022

1,2,4-Trimethylbenzene	56.0	2.00	ug/L	50.0		112	70-130			
1,3,5-Trimethylbenzene	59.1	2.00	"	50.0		118	70-130			
Benzene	52.8	1.00	"	50.0		106	70-130			
Ethylbenzene	53.1	1.00	"	50.0		106	70-130			
m,p-Xylene	105	2.00	"	100		105	70-130			
Naphthalene	49.8	2.00	"	50.0		99.7	70-130			
o-Xylene	52.5	1.00	"	50.0		105	70-130			
Toluene	53.4	1.00	"	50.0		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.6	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	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: DCP - CR42 & CR13

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 B2C2928 - EPA 5030B (Water)

Matrix Spike (B2C2928-MS1)	Source: Y203753-02			Prepared: 03/29/2022 Analyzed: 03/29/2022						
1,2,4-Trimethylbenzene	64.0	2.00	ug/L	50.0	ND	128	70-130			
1,3,5-Trimethylbenzene	67.6	2.00	"	50.0	ND	135	70-130			QM-07
Benzene	58.3	1.00	"	50.0	ND	117	70-130			
Ethylbenzene	59.0	1.00	"	50.0	ND	118	70-130			
m,p-Xylene	115	2.00	"	100	ND	115	70-130			
Naphthalene	54.9	2.00	"	50.0	ND	110	70-130			
o-Xylene	57.4	1.00	"	50.0	ND	115	70-130			
Toluene	59.7	1.00	"	50.0	ND	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.7	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.7	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

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

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

Batch B2C2928 - EPA 5030B (Water)

Matrix Spike Dup (B2C2928-MSD1)	Source: Y203753-02			Prepared: 03/29/2022 Analyzed: 03/29/2022						
1,2,4-Trimethylbenzene	57.7	2.00	ug/L	50.0	ND	115	70-130	10.2	20	
1,3,5-Trimethylbenzene	60.4	2.00	"	50.0	ND	121	70-130	11.3	20	
Benzene	52.3	1.00	"	50.0	ND	105	70-130	10.8	20	
Ethylbenzene	53.1	1.00	"	50.0	ND	106	70-130	10.6	20	
m,p-Xylene	104	2.00	"	100	ND	104	70-130	9.58	20	
Naphthalene	53.6	2.00	"	50.0	ND	107	70-130	2.30	20	
o-Xylene	50.8	1.00	"	50.0	ND	102	70-130	12.2	20	
Toluene	55.5	1.00	"	50.0	ND	111	70-130	7.34	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.8	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

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 B2C2930 - EPA 5030B (Water)

Blank (B2C2930-BLK1)

Prepared: 03/29/2022 Analyzed: 03/29/2022

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	67		"	62.5	107		70-130			
Surrogate: Toluene-d8	65		"	62.5	104		70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.5		70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

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

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

Batch B2C2930 - EPA 5030B (Water)

LCS (B2C2930-BS1)

Prepared: 03/29/2022 Analyzed: 03/29/2022

1,2,4-Trimethylbenzene	53.9	2.00	ug/L	50.0		108	70-130			
1,3,5-Trimethylbenzene	54.5	2.00	"	50.0		109	70-130			
Benzene	52.7	1.00	"	50.0		105	70-130			
Ethylbenzene	54.2	1.00	"	50.0		108	70-130			
m,p-Xylene	111	2.00	"	100		111	70-130			
Naphthalene	49.1	2.00	"	50.0		98.2	70-130			
o-Xylene	52.0	1.00	"	50.0		104	70-130			
Toluene	52.4	1.00	"	50.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		105	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

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 B2C2930 - EPA 5030B (Water)

Matrix Spike (B2C2930-MS1)	Source: Y203753-21			Prepared: 03/29/2022 Analyzed: 03/29/2022						
1,2,4-Trimethylbenzene	59.0	2.00	ug/L	50.0	ND	118	70-130			
1,3,5-Trimethylbenzene	58.7	2.00	"	50.0	ND	117	70-130			
Benzene	58.9	1.00	"	50.0	ND	118	70-130			
Ethylbenzene	59.6	1.00	"	50.0	ND	119	70-130			
m,p-Xylene	123	2.00	"	100	ND	123	70-130			
Naphthalene	53.8	2.00	"	50.0	ND	108	70-130			
o-Xylene	58.2	1.00	"	50.0	ND	116	70-130			
Toluene	57.1	1.00	"	50.0	ND	114	70-130			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

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

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

Batch B2C2930 - EPA 5030B (Water)

Matrix Spike Dup (B2C2930-MSD1)	Source: Y203753-21			Prepared: 03/29/2022 Analyzed: 03/29/2022						
1,2,4-Trimethylbenzene	58.7	2.00	ug/L	50.0	ND	117	70-130	0.629	20	
1,3,5-Trimethylbenzene	57.6	2.00	"	50.0	ND	115	70-130	1.74	20	
Benzene	56.9	1.00	"	50.0	ND	114	70-130	3.47	20	
Ethylbenzene	59.3	1.00	"	50.0	ND	119	70-130	0.454	20	
m,p-Xylene	125	2.00	"	100	ND	125	70-130	1.81	20	
Naphthalene	50.3	2.00	"	50.0	ND	101	70-130	6.74	20	
o-Xylene	61.2	1.00	"	50.0	ND	122	70-130	5.13	20	
Toluene	62.8	1.00	"	50.0	ND	126	70-130	9.36	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Jeb Watts
Project Number: [none]
Project: DCP - CR42 & CR13

Notes and Definitions

U Sample is Non-Detect.

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.



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.

Jen Pellegrini, Project Manager



March 31, 2022

Tasman Geosciences

Jeb Watts

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. March 30, 2022. This project is associated with Origins project number Y203782-01.

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

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

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

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

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

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



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Jeb Watts
Project Number: [none]
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW09	Y203782-01	Water	March 30, 2022 11:06	03/30/2022 15:42
MW10	Y203782-02	Water	March 30, 2022 11:18	03/30/2022 15:42
MW11	Y203782-03	Water	March 30, 2022 11:31	03/30/2022 15:42
MW12	Y203782-04	Water	March 30, 2022 11:38	03/30/2022 15:42
MW13	Y203782-05	Water	March 30, 2022 11:24	03/30/2022 15:42
MW16	Y203782-06	Water	March 30, 2022 11:48	03/30/2022 15:42
MW33	Y203782-07	Water	March 30, 2022 10:24	03/30/2022 15:42
MW35	Y203782-08	Water	March 30, 2022 12:12	03/30/2022 15:42
MW42	Y203782-09	Water	March 30, 2022 11:53	03/30/2022 15:42
MW43	Y203782-10	Water	March 30, 2022 12:04	03/30/2022 15:42
MW44A	Y203782-11	Water	March 30, 2022 10:51	03/30/2022 15:42
MW44B	Y203782-12	Water	March 30, 2022 10:58	03/30/2022 15:42
MW45A	Y203782-13	Water	March 30, 2022 10:34	03/30/2022 15:42
MW45B	Y203782-14	Water	March 30, 2022 10:42	03/30/2022 15:42

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Jeb Watts
Project Number: [none]
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW46A	Y203782-15	Water	March 30, 2022 10:07	03/30/2022 15:42
MW46B	Y203782-16	Water	March 30, 2022 10:17	03/30/2022 15:42

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13



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7205782

page 1 of 2

Client: DCP/TASMAN
 Project Manager: Jeb Watts / Steve Weathers
 Address: 6855 W 119th Ave
 Broomfield CO 80020
 Telephone Number: 303-487-1228
 Project Name: CR 42/13
 Project Number:
 Samples Collected By: B.G., J.M.

Fax: 303.265.9645

Email Address: jwatts@tasman-co.com
 Steve Weathers@originslab.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	95-1		95-1/MS/MS
MW09	3/30/22	1106	3	X				X						1
MW10		1118	1											2
MW11		1131	1											3
MW12		1138	1											4
MW13		1124	1											5
MW16		1148	1											6
MW33		1024	1											7
MW35		1212	1											8
MW42		1153	1											9
MW43		1204	1											10
Relinquished By: [Signature]	Date: 3/30/22	Time: 1542		Received By: [Signature]	Date: 3/30/22	Time: 1542		Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>						

Date Results Needed

Temp Received: 2.3

Origins Laboratory, Inc.

Jen Pellegrini

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: DCP - CR42 & CR13

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y203782

Client: Tasman

Client Project ID: CR42/13

Checklist Completed by: JG

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 3/30/22

Airbill #: N/A

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

Cooler Number/Temperature: 1 123 °C / _____ °C / _____ °C / _____ °C (Describe)

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)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

3/30/22
 Date/Time Reviewed

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: DCP - CR42 & CR13

MW09

3/30/2022 11:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203782-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C3041	ZZZ	03/30/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW10

3/30/2022 11:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y203782-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C3041	ZZZ	03/30/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW11

3/30/2022 11:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203782-03 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C3041	ZZZ	03/30/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW12

3/30/2022 11:38:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203782-04 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C3041	ZZZ	03/30/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130				"	"	"	
Surrogate: Toluene-d8	98.3 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %	70-130				"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW13

3/30/2022 11:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203782-05 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C3041	ZZZ	03/30/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW16

3/30/2022 11:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203782-06 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C3041	ZZZ	03/30/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW33

3/30/2022 10:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203782-07 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C3041	ZZZ	03/30/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.5 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW35

3/30/2022 12:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203782-08 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C3041	ZZZ	03/30/2022	03/30/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW42

3/30/2022 11:53:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203782-09 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C3041	ZZZ	03/30/2022	03/31/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW43

3/30/2022 12:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203782-10 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C3041	ZZZ	03/30/2022	03/31/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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: DCP - CR42 & CR13

MW44A

3/30/2022 10:51:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203782-11 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C3041	ZZZ	03/30/2022	03/31/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW44B

3/30/2022 10:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203782-12 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C3041	ZZZ	03/30/2022	03/31/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW45A

3/30/2022 10:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203782-13 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C3041	ZZZ	03/30/2022	03/31/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.1 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW45B

3/30/2022 10:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203782-14 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C3041	ZZZ	03/30/2022	03/31/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	87.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	115 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW46A

3/30/2022 10:07:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203782-15 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C3041	ZZZ	03/30/2022	03/31/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	88.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	119 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

MW46B

3/30/2022 10:17:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203782-16 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C3041	ZZZ	03/30/2022	03/31/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	90.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	118 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

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 B2C3041 - EPA 5030B (Water)

Blank (B2C3041-BLK1)

Prepared: 03/30/2022 Analyzed: 03/30/2022

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	66		"	62.5	105		70-130			
Surrogate: Toluene-d8	59		"	62.5	94.4		70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

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 B2C3041 - EPA 5030B (Water)

LCS (B2C3041-BS1)

Prepared: 03/30/2022 Analyzed: 03/30/2022

1,2,4-Trimethylbenzene	54.4	2.00	ug/L	50.0		109	70-130			
1,3,5-Trimethylbenzene	56.9	2.00	"	50.0		114	70-130			
Benzene	47.6	1.00	"	50.0		95.1	70-130			
Ethylbenzene	52.6	1.00	"	50.0		105	70-130			
m,p-Xylene	102	2.00	"	100		102	70-130			
Naphthalene	50.1	2.00	"	50.0		100	70-130			
o-Xylene	52.7	1.00	"	50.0		105	70-130			
Toluene	49.4	1.00	"	50.0		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.8	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

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 B2C3041 - EPA 5030B (Water)

Matrix Spike (B2C3041-MS1)	Source: Y203782-01			Prepared: 03/30/2022 Analyzed: 03/30/2022						
1,2,4-Trimethylbenzene	49.8	2.00	ug/L	50.0	ND	99.6	70-130			
1,3,5-Trimethylbenzene	51.9	2.00	"	50.0	ND	104	70-130			
Benzene	44.1	1.00	"	50.0	ND	88.2	70-130			
Ethylbenzene	46.3	1.00	"	50.0	ND	92.6	70-130			
m,p-Xylene	89.5	2.00	"	100	ND	89.5	70-130			
Naphthalene	48.4	2.00	"	50.0	ND	96.8	70-130			
o-Xylene	44.5	1.00	"	50.0	ND	89.0	70-130			
Toluene	46.7	1.00	"	50.0	ND	93.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.1	70-130			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jeb Watts
 Project Number: [none]
 Project: DCP - CR42 & CR13

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 B2C3041 - EPA 5030B (Water)

Matrix Spike Dup (B2C3041-MSD1)	Source: Y203782-01	Prepared: 03/30/2022	Analyzed: 03/30/2022						
1,2,4-Trimethylbenzene	52.4	2.00	ug/L	50.0	ND	105	70-130	5.11	20
1,3,5-Trimethylbenzene	52.8	2.00	"	50.0	ND	106	70-130	1.80	20
Benzene	43.6	1.00	"	50.0	ND	87.1	70-130	1.19	20
Ethylbenzene	46.1	1.00	"	50.0	ND	92.2	70-130	0.455	20
m,p-Xylene	91.5	2.00	"	100	ND	91.5	70-130	2.15	20
Naphthalene	51.8	2.00	"	50.0	ND	104	70-130	6.86	20
o-Xylene	46.2	1.00	"	50.0	ND	92.4	70-130	3.68	20
Toluene	47.9	1.00	"	50.0	ND	95.9	70-130	2.54	20
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.8	70-130		
Surrogate: Toluene-d8	64		"	62.5		102	70-130		
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.9	70-130		

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Jeb Watts
Project Number: [none]
Project: DCP - CR42 & CR13

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini, Project Manager