

March 08, 2022

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Berry 8-6L

Project Number - [none]

Attached are your analytical results for KMG - Berry 8-6L received by Origins Laboratory, Inc. March 01, 2022. This project is associated with Origins project number Y203016-01.

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

Mike Jahn
Project Number: [none]
Project: KMG - Berry 8-6L

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	Y203016-01	Soil	March 1, 2022 13:13	03/01/2022 15:20
WH-BG01@3'	Y203016-02	Soil	March 1, 2022 13:40	03/01/2022 15:20
WH-BG01@6'	Y203016-03	Soil	March 1, 2022 13:43	03/01/2022 15:20
WH-BG02@3'	Y203016-04	Soil	March 1, 2022 13:46	03/01/2022 15:20
WH-BG02@6'	Y203016-05	Soil	March 1, 2022 13:49	03/01/2022 15:20
WH-BG03@3'	Y203016-06	Soil	March 1, 2022 13:52	03/01/2022 15:20
WH-BG03@6'	Y203016-07	Soil	March 1, 2022 13:55	03/01/2022 15:20
FL-B01@4'	Y203016-08	Soil	March 1, 2022 13:58	03/01/2022 15:20

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

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

Sample Receipt Checklist

Origins Work Order: 1203016 Client: Tasman
 Client Project ID: Berry 8-6L

Checklist Completed by: SG Shipped Via: HD
 Date/Time completed: 3/1/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

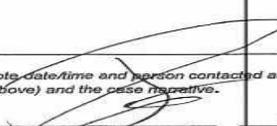
Matrix(es) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: 1, 4.3 °C / _____ °C / _____ °C

Thermometer ID: T003

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 HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +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) 

Date/Time Reviewed 3/1/22

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

WH-B01@6'

3/1/2022 1:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203016-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.20	0.100	mg/L	1	B2C0203	KAP	03/02/2022	03/03/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C0111	ZZZ	03/01/2022	03/01/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	75.1 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

Benzene	ND	0.00200	mg/kg	1	B2C0110	ZZZ	03/01/2022	03/02/2022	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.2 %	70-130			"	"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	6.81	0.499	meq/L	10	[CALC]	KAP	03/02/2022	03/03/2022	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

WH-B01@6'
3/1/2022 1:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203016-01 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	2.29	0.823	meq/L	10	[CALC]	KAP	03/02/2022	03/03/2022	
Sodium	3.43	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	9.25		pH Units	1	B2C0204	ACC	03/02/2022	03/03/2022	
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SAR by 20B Saturated Paste

SAR	1.61		SAR	1	B2C0201	KAP	03/02/2022	03/03/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.21	0.00500	mmhos/cm	1	B2C0205	ACC	03/02/2022	03/03/2022	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

WH-BG01@3'

3/1/2022 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203016-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.857	0.0997	mg/L	1	B2C0203	KAP	03/02/2022	03/03/2022
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Metals by Saturated Paste by EPA 6010

Calcium	9.13	0.499	meq/L	10	[CALC]	KAP	03/02/2022	03/03/2022
Magnesium	15.4	0.823	"	"	"	KAP	"	"
Sodium	10.4	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.99		pH Units	1	B2C0204	ACC	03/02/2022	03/03/2022
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SAR by 20B Saturated Paste

SAR	2.98		SAR	1	B2C0201	KAP	03/02/2022	03/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.91	0.00500	mmhos/cm	1	B2C0205	ACC	03/02/2022	03/03/2022
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

WH-BG01@6'

3/1/2022 1:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203016-03 (Soil)

Boron (DTPA Sorbitol)

Boron	2.24	0.0990	mg/L	1	B2C0203	KAP	03/02/2022	03/03/2022
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Metals by Saturated Paste by EPA 6010

Calcium	11.1	0.499	meq/L	10	[CALC]	KAP	03/02/2022	03/03/2022
Magnesium	22.6	0.823	"	"	"	KAP	"	"
Sodium	15.9	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.07		pH Units	1	B2C0204	ACC	03/02/2022	03/03/2022
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SAR by 20B Saturated Paste

SAR	3.87		SAR	1	B2C0201	KAP	03/02/2022	03/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.67	0.00500	mmhos/cm	1	B2C0205	ACC	03/02/2022	03/03/2022
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 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

WH-BG02@3'

3/1/2022 1:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203016-04 (Soil)

Boron (DTPA Sorbitol)

Boron	1.46	0.0985	mg/L	1	B2C0203	KAP	03/02/2022	03/03/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	10.5	0.499	meq/L	10	[CALC]	KAP	03/02/2022	03/03/2022	
Magnesium	18.0	0.823	"	"	"	KAP	"	"	
Sodium	15.3	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.00		pH Units	1	B2C0204	ACC	03/02/2022	03/03/2022	
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SAR by 20B Saturated Paste

SAR	4.05		SAR	1	B2C0201	KAP	03/02/2022	03/03/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.44	0.00500	mmhos/cm	1	B2C0205	ACC	03/02/2022	03/03/2022	
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

WH-BG02@6'

3/1/2022 1:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203016-05 (Soil)

Boron (DTPA Sorbitol)

Boron	1.38	0.100	mg/L	1	B2C0203	KAP	03/02/2022	03/03/2022
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Metals by Saturated Paste by EPA 6010

Calcium	15.5	0.499	meq/L	10	[CALC]	KAP	03/02/2022	03/03/2022
Magnesium	30.5	0.823	"	"	"	KAP	"	"
Sodium	21.6	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.90		pH Units	1	B2C0204	ACC	03/02/2022	03/03/2022
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SAR by 20B Saturated Paste

SAR	4.50		SAR	1	B2C0201	KAP	03/02/2022	03/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.77	0.00500	mmhos/cm	1	B2C0205	ACC	03/02/2022	03/03/2022
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

WH-BG03@3'

3/1/2022 1:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203016-06 (Soil)

Boron (DTPA Sorbitol)

Boron	2.33	0.0995	mg/L	1	B2C0203	KAP	03/02/2022	03/03/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	4.43	0.499	meq/L	10	[CALC]	KAP	03/02/2022	03/03/2022	
Magnesium	8.57	0.823	"	"	"	KAP	"	"	
Sodium	11.5	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.23		pH Units	1	B2C0204	ACC	03/02/2022	03/03/2022	
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SAR by 20B Saturated Paste

SAR	4.49		SAR	1	B2C0201	KAP	03/02/2022	03/03/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.15	0.00500	mmhos/cm	1	B2C0205	ACC	03/02/2022	03/03/2022	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

WH-BG03@6'

3/1/2022 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203016-07 (Soil)

Boron (DTPA Sorbitol)

Boron	2.56	0.0993	mg/L	1	B2C0203	KAP	03/02/2022	03/03/2022
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Metals by Saturated Paste by EPA 6010

Calcium	22.7	0.499	meq/L	10	[CALC]	KAP	03/02/2022	03/03/2022
Magnesium	32.4	0.823	"	"	"	KAP	"	"
Sodium	19.9	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.86		pH Units	1	B2C0204	ACC	03/02/2022	03/03/2022
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SAR by 20B Saturated Paste

SAR	3.80		SAR	1	B2C0201	KAP	03/02/2022	03/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.13	0.00500	mmhos/cm	1	B2C0205	ACC	03/02/2022	03/03/2022
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

FL-B01@4'

3/1/2022 1:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y203016-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C0111	ZZZ	03/01/2022	03/02/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 74.7 % 50-150 " " "

GBTEX+TMBs by 8260D

Benzene	ND	0.00200	mg/kg	1	B2C0110	ZZZ	03/01/2022	03/02/2022	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 122 % 70-130 " " "
 Surrogate: Toluene-d8 92.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.0 % 70-130 " " "

Origins Laboratory, Inc.



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 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

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 B2C0110 - EPA 5030 (soil)

Blank (B2C0110-BLK1)

Prepared: 03/01/2022 Analyzed: 03/01/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.1		70-130			

Origins Laboratory, Inc.



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 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

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 B2C0110 - EPA 5030 (soil)

LCS (B2C0110-BS1)

Prepared: 03/01/2022 Analyzed: 03/01/2022

1,2,4-Trimethylbenzene	0.0881	0.00200	mg/kg	0.100		88.1	70-130			
1,3,5-Trimethylbenzene	0.0897	0.00200	"	0.100		89.7	70-130			
Benzene	0.0859	0.00200	"	0.100		85.9	70-130			
Ethylbenzene	0.0835	0.00200	"	0.100		83.5	70-130			
Naphthalene	0.0884	0.0100	"	0.100		88.4	70-130			
Toluene	0.0824	0.00200	"	0.100		82.4	70-130			
o-Xylene	0.0855	0.00200	"	0.100		85.5	70-130			
m,p-Xylene	0.173	0.00400	"	0.200		86.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.8	70-130			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

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 B2C0110 - EPA 5030 (soil)

Matrix Spike (B2C0110-MS1)	Source: Y203011-03			Prepared: 03/01/2022 Analyzed: 03/01/2022						
1,2,4-Trimethylbenzene	0.0673	0.00200	mg/kg	0.100	0.0216	45.6	70-130			QM-07
1,3,5-Trimethylbenzene	0.147	0.00200	"	0.100	0.0655	81.9	70-130			QM-07
Benzene	0.0803	0.00200	"	0.100	ND	80.3	70-130			
Ethylbenzene	0.0819	0.00200	"	0.100	ND	81.9	70-130			
Naphthalene	0.0561	0.0100	"	0.100	0.00812	48.0	70-130			QM-07
Toluene	0.0768	0.00200	"	0.100	ND	76.8	70-130			
o-Xylene	0.0879	0.00200	"	0.100	0.000600	87.3	70-130			
m,p-Xylene	0.166	0.00400	"	0.200	ND	82.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.17		"	0.125		139	70-130			QM-07

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

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

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 B2C0110 - EPA 5030 (soil)

Matrix Spike Dup (B2C0110-MSD1)	Source: Y203011-03			Prepared: 03/01/2022 Analyzed: 03/01/2022						
1,2,4-Trimethylbenzene	0.0252	0.00200	mg/kg	0.100	0.0216	3.58	70-130	90.9	20	QM-07
1,3,5-Trimethylbenzene	0.0897	0.00200	"	0.100	0.0655	24.2	70-130	48.7	20	QM-07
Benzene	0.0447	0.00200	"	0.100	ND	44.7	70-130	57.0	20	QM-07
Ethylbenzene	0.0362	0.00200	"	0.100	ND	36.2	70-130	77.5	20	QM-07
Naphthalene	0.0261	0.0100	"	0.100	0.00812	18.0	70-130	73.1	20	QM-07
Toluene	0.0390	0.00200	"	0.100	ND	39.0	70-130	65.2	20	QM-07
o-Xylene	0.0410	0.00200	"	0.100	0.000600	40.4	70-130	72.9	20	QM-07
m,p-Xylene	0.0677	0.00400	"	0.200	ND	33.9	70-130	84.1	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		121	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

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 B2C0111 - EPA 3550B										
Blank (B2C0111-BLK1)										
					Prepared: 03/01/2022 Analyzed: 03/01/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		82.0	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2C0111 - EPA 3550B										
LCS (B2C0111-BS1)					Prepared: 03/01/2022 Analyzed: 03/01/2022					
Diesel (C10-C28)	857	50.0	mg/kg	1000		85.7	70-130			
Residual Range Organics (C28-C40)	826	200	"	1000		82.6	70-130			
Surrogate: o-Terphenyl	38		"	49.8		76.4	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

Extractable Petroleum Hydrocarbons by 8015D - 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 B2C0111 - EPA 3550B

Matrix Spike (B2C0111-MS1)	Source: Y203011-03			Prepared: 03/01/2022 Analyzed: 03/01/2022						
Diesel (C10-C28)	1070	50.0	mg/kg	1000	226	84.9	70-130			
Residual Range Organics (C28-C40)	811	200	"	1000	90.1	72.1	70-130			
Surrogate: o-Terphenyl	37		"	49.8		73.8	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2C0111 - EPA 3550B										
Matrix Spike Dup (B2C0111-MSD1)					Source: Y203011-03					Prepared: 03/01/2022 Analyzed: 03/01/2022
Diesel (C10-C28)	1160	50.0	mg/kg	1000	226	93.2	70-130	7.39	35	
Residual Range Organics (C28-C40)	859	200	"	1000	90.1	76.9	70-130	5.76	35	
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: [none]
Project: KMG - Berry 8-6L

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.

March 16, 2022

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Berry 8-6L FL

Project Number - [none]

Attached are your analytical results for KMG - Berry 8-6L FL received by Origins Laboratory, Inc. March 15, 2022. This project is associated with Origins project number Y203388-01.

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

Mike Jahn
Project Number: [none]
Project: KMG - Berry 8-6L FL

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B03@4'	Y203388-01	Soil	March 15, 2022 14:05	03/15/2022 18:03
FL-B04@3'	Y203388-02	Soil	March 15, 2022 14:07	03/15/2022 18:03

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

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L FL

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

Sample Receipt Checklist

Origins Work Order: N203388 Client: Tasman
 Client Project ID: Berry 8-6L FL

Checklist Completed by: SG Shipped Via: HD
 Date/time completed: 3/15/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 10.3 °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"/>		<u>same day</u>
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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +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 3/15/22

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

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L FL

FL-B03@4'

3/15/2022 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203388-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C1529	ZZZ	03/15/2022	03/16/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 76.2 % 50-150 " " "

GBTEX+TMBs by 8260D

Benzene	ND	0.00200	mg/kg	1	B2C1531	ZZZ	03/15/2022	03/16/2022	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.7 % 70-130 " " "
 Surrogate: Toluene-d8 90.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.2 % 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

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L FL

FL-B04@3'

3/15/2022 2:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203388-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C1529	ZZZ	03/15/2022	03/16/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 73.5 % 50-150 " " "

GBTEX+TMBs by 8260D

Benzene	ND	0.00200	mg/kg	1	B2C1531	ZZZ	03/15/2022	03/16/2022	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
 Surrogate: Toluene-d8 91.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.8 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L FL

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2C1529 - EPA 3550B										
Blank (B2C1529-BLK1)					Prepared: 03/15/2022 Analyzed: 03/16/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		87.8	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L FL

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2C1529 - EPA 3550B										
LCS (B2C1529-BS1)					Prepared: 03/15/2022 Analyzed: 03/16/2022					
Diesel (C10-C28)	1140	50.0	mg/kg	1000		114	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.9	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L FL

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2C1529 - EPA 3550B										
Matrix Spike (B2C1529-MS1)		Source: Y203386-02			Prepared: 03/15/2022 Analyzed: 03/16/2022					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.9	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L FL

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2C1529 - EPA 3550B										
Matrix Spike Dup (B2C1529-MSD1)					Source: Y203386-02					Prepared: 03/15/2022 Analyzed: 03/16/2022
Diesel (C10-C28)	1110	50.0	mg/kg	1000	ND	111	70-130	2.26	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130	5.10	35	
Surrogate: o-Terphenyl	41		"	49.8		83.4	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L FL

Extractable Petroleum Hydrocarbons by 8015D - 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 B2C1531 - EPA 5030 (soil)

Blank (B2C1531-BLK1)

Prepared: 03/15/2022 Analyzed: 03/15/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	89.1		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	91.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	92.7		70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L FL

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 B2C1531 - EPA 5030 (soil)

LCS (B2C1531-BS1)

Prepared: 03/15/2022 Analyzed: 03/15/2022

1,2,4-Trimethylbenzene	0.0953	0.00200	mg/kg	0.100		95.3	70-130			
1,3,5-Trimethylbenzene	0.0948	0.00200	"	0.100		94.8	70-130			
Benzene	0.110	0.00200	"	0.100		110	70-130			
Ethylbenzene	0.0928	0.00200	"	0.100		92.8	70-130			
Naphthalene	0.0942	0.0100	"	0.100		94.2	70-130			
Toluene	0.0952	0.00200	"	0.100		95.2	70-130			
o-Xylene	0.0908	0.00200	"	0.100		90.8	70-130			
m,p-Xylene	0.195	0.00400	"	0.200		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.9	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.1	70-130			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L FL

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 B2C1531 - EPA 5030 (soil)

Matrix Spike (B2C1531-MS1)	Source: Y203387-01			Prepared: 03/15/2022 Analyzed: 03/16/2022						
1,2,4-Trimethylbenzene	0.0886	0.00200	mg/kg	0.100	ND	88.6	70-130			
1,3,5-Trimethylbenzene	0.0901	0.00200	"	0.100	ND	90.1	70-130			
Benzene	0.0904	0.00200	"	0.100	ND	90.4	70-130			
Ethylbenzene	0.0924	0.00200	"	0.100	ND	92.4	70-130			
Naphthalene	0.0847	0.0100	"	0.100	ND	84.7	70-130			
Toluene	0.0841	0.00200	"	0.100	ND	84.1	70-130			
o-Xylene	0.0915	0.00200	"	0.100	ND	91.5	70-130			
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.3	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.7	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: [none]
 Project: KMG - Berry 8-6L FL

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 B2C1531 - EPA 5030 (soil)

Matrix Spike Dup (B2C1531-MSD1)	Source: Y203387-01	Prepared: 03/15/2022	Analyzed: 03/15/2022							
1,2,4-Trimethylbenzene	0.0700	0.00200	mg/kg	0.100	ND	70.0	70-130	23.5	20	QM-07
1,3,5-Trimethylbenzene	0.153	0.00200	"	0.100	ND	153	70-130	51.9	20	QM-07
Benzene	0.150	0.00200	"	0.100	ND	150	70-130	49.5	20	QM-07
Ethylbenzene	0.154	0.00200	"	0.100	ND	154	70-130	49.7	20	QM-07
Naphthalene	0.144	0.0100	"	0.100	ND	144	70-130	51.9	20	QM-07
Toluene	0.146	0.00200	"	0.100	ND	146	70-130	53.8	20	QM-07
o-Xylene	0.153	0.00200	"	0.100	ND	153	70-130	50.3	20	QM-07
m,p-Xylene	0.301	0.00400	"	0.200	ND	151	70-130	49.9	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.6	70-130			

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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

Mike Jahn
Project Number: [none]
Project: KMG - Berry 8-6L FL

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.

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Jen Pellegrini For Noelle Doyle Mathis, President