



December 01, 2023

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Bryant 16,23,36-30

Project Number - [none]

Attached are your analytical results for KMG - Bryant 16,23,36-30 received by Origins Laboratory, Inc. November 09, 2023. This project is associated with Origins project number Y311270-01.

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.

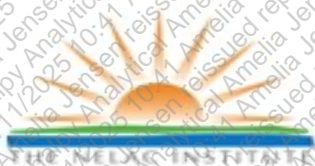
The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

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

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
36-FL-B02@4'	Y311270-01	Soil	November 9, 2023 13:00	11/09/2023 15:56

A 1,2,4-TMB rerun was requested per Jennifer's email on 11/13/2023. No errors were found in the original data, all results are reported. The sample was found to be non-homogenous. JAB

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

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

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

Sample Receipt Checklist

Origins Work Order: 4311270 Client: Tasman
 Client Project ID: Bryant 16,23,36-30

Checklist Completed by: FHS Shipped Via: HD
 Date/time completed: 11/19/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 152 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: 7004

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 be taken in the additional comments (above) and the case narrative.

[Signature]
 Reviewed by (Project Manager) 11/19/23
Date/Time Reviewed

Origins Laboratory, Inc.
[Signature]

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

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

36-FL-B02@4'
11/9/2023 1:00:00PM

Origins Laboratory, Inc.
Y311270-01 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Boron (DTPA Sorbitol)

Boron	0.243		0.101	mg/L	1	B3K1021	11/10/2023	11/15/2023	
-------	-------	--	-------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D


Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K0935	11/09/2023	11/10/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.5 %		50-150	"	"	"	"	"	"
------------------------	--------	--	--------	---	---	---	---	---	---

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0242		0.00200	mg/kg	1	B3K0936	11/09/2023	11/10/2023	
1,3,5-Trimethylbenzene	0.00844		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	0.00574		0.00200	"	"	"	"	"	
Xylenes, total	0.0251		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.19		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	116 %		70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	96.6 %		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

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

36-FL-B02@4'
11/9/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y311270-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	103 %		70-130			B3K09 36	11/09/2023	11/10/2023	
---------------------------------	-------	--	--------	--	--	-------------	------------	------------	--

Metals by Saturated Paste by EPA 6010

Calcium	1.52		0.499	meq/L	10	[CALC]	11/10/2023	11/13/2023	
Magnesium	0.837		0.823	"	"	"	"	"	
Sodium	0.448		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.006		0.002	mg/kg	1	B3K0939	11/09/2023	11/10/2023	
2-Methylnaphthalene	0.012		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U

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

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

36-FL-B02@4'
11/9/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y311270-01 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B3K0939	11/09/2023	11/10/2023	U
Naphthalene	0.003		0.002	"	"	"	"	"	"
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	96.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	95.8 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.39			pH Units	1	B3K1026	11/10/2023	11/11/2023	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	0.413		0.0100	SAR	1	B3K1018	11/10/2023	11/13/2023	
-----	-------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.286		0.00500	mmhos/cm	1	B3K1026	11/10/2023	11/11/2023	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

Table 915 metals by EPA 6020B

Arsenic	3.49		0.0922	mg/kg	10	B3K1405	11/14/2023	11/16/2023	
---------	------	--	--------	-------	----	---------	------------	------------	--

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

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

36-FL-B02@4'
11/9/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------


Origins Laboratory, Inc.
Y311270-01 (Soil)

Table 915 metals by EPA 6020B

Barium	122		9.22	mg/kg	10	B3K1405	11/14/2023	11/16/2023	
Cadmium	0.201		0.0922	"	"	"	"	"	"
Copper	14.9		9.22	"	"	"	"	"	"
Lead	10.4		9.22	"	"	"	"	"	"
Nickel	14.5		9.22	"	"	"	"	"	"
Selenium	0.282		0.0922	"	"	"	"	"	"
Silver	ND		0.0922	"	"	"	"	"	"
Zinc	ND		92.2	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L717223	11/09/2023	11/15/2023	
----------------------	----	-------	-----	-------	---	---------	------------	------------	--

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

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

36-FL-B02@4'
11/9/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y311270-01RE1 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K0936	11/09/2023	11/23/2023	U
Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
Surrogate: Toluene-d8	104 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.7 %		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

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

36-FL-B02@4'
11/9/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y311270-01RE2 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K0936	11/09/2023	11/23/2023	U
Surrogate: 1,2-Dichloroethane-d4	111 %		70-130						
Surrogate: Toluene-d8	102 %		70-130						
Surrogate: 4-Bromofluorobenzene	92.3 %		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

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K0935 - EPA 3550B

Blank (B3K0935-BLK1)

Prepared: 11/09/2023 Analyzed: 11/09/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		83.0	50-150			

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

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K0935 - EPA 3550B

LCS (B3K0935-BS1)

Prepared: 11/09/2023 Analyzed: 11/09/2023

Diesel (C10-C28)	948	50.0	mg/kg	1000		94.8	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K0935 - EPA 3550B

Matrix Spike (B3K0935-MS1)

Source: Y311254-21

Prepared: 11/09/2023 Analyzed: 11/09/2023

Diesel (C10-C28)	874	50.0	mg/kg	1000	ND	87.4	70-130			
Residual Range Organics (C28-C40)	928	200	"	1000	ND	92.8	70-130			
Surrogate: o-Terphenyl	40		"	49.8		79.8	50-150			

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

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K0935 - EPA 3550B

Matrix Spike Dup (B3K0935-MSD1)

Source: Y311254-21

Prepared: 11/09/2023 Analyzed: 11/09/2023

Diesel (C10-C28)	976	50.0	mg/kg	1000	ND	97.6	70-130	11.0	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130	12.5	35	
Surrogate: o-Terphenyl	41		"	49.8		82.3	50-150			

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

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

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 B3K0936 - EPA 5030 (soil)

Blank (B3K0936-BLK1)

Prepared: 11/09/2023 Analyzed: 11/09/2023

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	0.00380	"							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		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.5	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.

Jordan A. Bynon For Jen Pellegrini, Project Manager



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

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 B3K0936 - EPA 5030 (soil)

LCS (B3K0936-BS1)

Prepared: 11/09/2023 Analyzed: 11/09/2023

1,2,4-Trimethylbenzene	0.0942	0.00200	mg/kg	0.100		94.2	70-130			
1,3,5-Trimethylbenzene	0.0950	0.00200	"	0.100		95.0	70-130			
Benzene	0.0964	0.00200	"	0.100		96.4	70-130			
Ethylbenzene	0.0963	0.00200	"	0.100		96.3	70-130			
Naphthalene	0.0945	0.00380	"	0.100		94.5	70-130			
Toluene	0.0925	0.00200	"	0.100		92.5	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.192	0.00400	"	0.200		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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.

Jordan A. Bynon For Jen Pellegrini, Project Manager



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

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 B3K0936 - EPA 5030 (soil)

Matrix Spike (B3K0936-MS1)

Source: Y311254-21

Prepared: 11/09/2023 Analyzed: 11/09/2023

1,2,4-Trimethylbenzene	0.0763	0.00200	mg/kg	0.100	ND	76.3	70-130			
1,3,5-Trimethylbenzene	0.0758	0.00200	"	0.100	ND	75.8	70-130			
Benzene	0.0847	0.00200	"	0.100	ND	84.7	70-130			
Ethylbenzene	0.0796	0.00200	"	0.100	ND	79.6	70-130			
Naphthalene	0.0811	0.00380	"	0.100	ND	81.1	70-130			
Toluene	0.0774	0.00200	"	0.100	ND	77.4	70-130			
o-Xylene	0.0860	0.00200	"	0.100	ND	86.0	70-130			
m,p-Xylene	0.159	0.00400	"	0.200	ND	79.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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.

Jordan A. Bynon For Jen Pellegrini, Project Manager



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

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 B3K0936 - EPA 5030 (soil)

Matrix Spike Dup (B3K0936-MSD1)

Source: Y311254-21

Prepared: 11/09/2023 Analyzed: 11/10/2023

1,2,4-Trimethylbenzene	0.0946	0.00200	mg/kg	0.100	ND	94.6	70-130	21.4	20	QR-02
1,3,5-Trimethylbenzene	0.0933	0.00200	"	0.100	ND	93.3	70-130	20.6	20	QR-02
Benzene	0.0912	0.00200	"	0.100	ND	91.2	70-130	7.32	20	
Ethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130	20.8	20	QR-02
Naphthalene	0.0864	0.00380	"	0.100	ND	86.4	70-130	6.28	20	
Toluene	0.0880	0.00200	"	0.100	ND	88.0	70-130	12.9	20	
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130	20.3	20	QR-02
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.5	70-130	20.4	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	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.

Jordan A. Bynon For Jen Pellegrini, Project Manager



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

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

Batch B3K1405 - EPA 3050B

Blank (B3K1405-BLK1)

Prepared: 11/14/2023 Analyzed: 11/16/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3K1405-BS1)

Prepared: 11/14/2023 Analyzed: 11/16/2023

Arsenic	0.0507	0.000100	mg/kg	0.0500		101	80-120			
Barium	5.04	0.0100	"	5.00		101	80-120			
Cadmium	0.0532	0.000100	"	0.0500		106	80-120			
Copper	0.505	0.0100	"	0.500		101	80-120			
Lead	0.0517	0.0100	"	0.0500		103	80-120			
Nickel	0.0508	0.0100	"	0.0500		102	80-120			
Selenium	0.0506	0.000100	"	0.0500		101	80-120			
Silver	0.0535	0.000100	"	0.0500		107	80-120			
Zinc	0.453	0.100	"	0.500		90.6	80-120			

Matrix Spike (B3K1405-MS1)

Source: Y311167-01

Prepared: 11/14/2023 Analyzed: 11/16/2023

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.

Jordan A. Bynon For Jen Pellegrini, Project Manager



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

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

Batch B3K1405 - EPA 3050B

Matrix Spike (B3K1405-MS1)

Source: Y311167-01

Prepared: 11/14/2023 Analyzed: 11/16/2023

Arsenic	10.0	0.0969	mg/kg	4.84	4.13	122	75-125			
Barium	754	9.69	"	484	226	109	75-125			
Cadmium	6.14	0.0969	"	4.84	0.263	121	75-125			
Copper	66.5	9.69	"	48.4	15.7	105	75-125			
Lead	22.1	9.69	"	4.84	15.6	135	75-125			QM-07
Nickel	29.3	9.69	"	4.84	24.2	105	75-125			
Selenium	5.70	0.0969	"	4.84	0.709	103	75-125			
Silver	5.60	0.0969	"	4.84	0.0432	115	75-125			
Zinc	141	96.9	"	48.4	90.8	105	75-125			

Matrix Spike Dup (B3K1405-MSD1)

Source: Y311167-01

Prepared: 11/14/2023 Analyzed: 11/16/2023

Arsenic	10.1	0.0968	mg/kg	4.84	4.13	124	75-125	0.942	20	
Barium	704	9.68	"	484	226	98.8	75-125	6.85	20	
Cadmium	5.82	0.0968	"	4.84	0.263	115	75-125	5.29	20	
Copper	69.4	9.68	"	48.4	15.7	111	75-125	4.22	20	
Lead	22.7	9.68	"	4.84	15.6	147	75-125	2.54	20	QM-07
Nickel	39.0	9.68	"	4.84	24.2	306	75-125	28.4	20	QM-07
Selenium	5.74	0.0968	"	4.84	0.709	104	75-125	0.619	20	
Silver	5.19	0.0968	"	4.84	0.0432	106	75-125	7.67	20	
Zinc	194	96.8	"	48.4	90.8	213	75-125	31.1	20	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.

Jordan A. Bynon For Jen Pellegrini, Project Manager



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B3K0939 - EPA 3580

Prepared: 11/09/2023 Analyzed: 11/10/2023

Blank (B3K0939-BLK1)

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	200		ug/kg	200		99.9	60-130			
Surrogate: Anthracene-d10	210		"	200		107	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.7	60-130			

Prepared: 11/09/2023 Analyzed: 11/10/2023

LCS (B3K0939-BS1)

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200		101	70-130			
2-Methylnaphthalene	0.201	0.002	"	0.200		100	70-130			
Acenaphthene	0.202	0.020	"	0.200		101	70-130			
Anthracene	0.218	0.020	"	0.200		109	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

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B3K0939 - EPA 3580

LCS (B3K0939-BS1)

Prepared: 11/09/2023 Analyzed: 11/10/2023

Benzo (a) anthracene	0.184	0.005	mg/kg	0.200		92.2	70-130			
Benzo (a) pyrene	0.193	0.020	"	0.200		96.4	70-130			
Benzo (b) fluoranthene	0.177	0.020	"	0.200		88.7	70-130			
Benzo (g,h,i) perylene	0.202	0.020	"	0.200		101	70-130			
Benzo (k) fluoranthene	0.183	0.020	"	0.200		91.5	70-130			
Chrysene	0.184	0.020	"	0.200		91.9	70-130			
Dibenz (a,h) anthracene	0.199	0.020	"	0.200		99.3	70-130			
Fluoranthene	0.205	0.020	"	0.200		103	70-130			
Fluorene	0.203	0.020	"	0.200		102	70-130			
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200		98.5	70-130			
Naphthalene	0.203	0.002	"	0.200		101	70-130			
Phenanthrene	0.195	0.020	"	0.200		97.5	70-130			
Pyrene	0.188	0.020	"	0.200		93.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	190		"	200		97.4	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.0	60-130			

Matrix Spike (B3K0939-MS1)

Source: Y311269-01

Prepared: 11/09/2023 Analyzed: 11/10/2023

1-Methylnaphthalene	0.214	0.002	mg/kg	0.200	0.011	101	70-130			
2-Methylnaphthalene	0.214	0.002	"	0.200	0.022	96.0	70-130			
Acenaphthene	0.208	0.020	"	0.200	0.004	102	70-130			
Anthracene	0.203	0.020	"	0.200	ND	102	70-130			
Benzo (a) anthracene	0.206	0.005	"	0.200	ND	103	70-130			
Benzo (a) pyrene	0.200	0.020	"	0.200	ND	99.9	70-130			
Benzo (b) fluoranthene	0.201	0.020	"	0.200	ND	100	70-130			
Benzo (g,h,i) perylene	0.208	0.020	"	0.200	ND	104	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

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B3K0939 - EPA 3580

Matrix Spike (B3K0939-MS1)

Source: Y311269-01

Prepared: 11/09/2023 Analyzed: 11/10/2023

Benzo (k) fluoranthene	0.191	0.020	mg/kg	0.200	ND	95.3	70-130			
Chrysene	0.205	0.020	"	0.200	0.002	102	70-130			
Dibenz (a,h) anthracene	0.200	0.020	"	0.200	ND	100	70-130			
Fluoranthene	0.216	0.020	"	0.200	0.0005	108	70-130			
Fluorene	0.212	0.020	"	0.200	0.006	103	70-130			
Indeno (1,2,3-cd) pyrene	0.202	0.020	"	0.200	ND	101	70-130			
Naphthalene	0.209	0.002	"	0.200	ND	105	70-130			
Phenanthrene	0.201	0.020	"	0.200	0.008	96.8	70-130			
Pyrene	0.197	0.020	"	0.200	0.0009	98.2	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		98.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.4	60-130			

Matrix Spike Dup (B3K0939-MSD1)

Source: Y311269-01

Prepared: 11/09/2023 Analyzed: 11/10/2023

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	0.011	98.4	70-130	2.89	20	
2-Methylnaphthalene	0.205	0.002	"	0.200	0.022	91.9	70-130	3.88	20	
Acenaphthene	0.205	0.020	"	0.200	0.004	101	70-130	1.44	20	
Anthracene	0.191	0.020	"	0.200	ND	95.6	70-130	6.18	20	
Benzo (a) anthracene	0.197	0.005	"	0.200	ND	98.4	70-130	4.57	20	
Benzo (a) pyrene	0.205	0.020	"	0.200	ND	102	70-130	2.53	20	
Benzo (b) fluoranthene	0.191	0.020	"	0.200	ND	95.7	70-130	4.73	20	
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	ND	103	70-130	0.462	20	
Benzo (k) fluoranthene	0.214	0.020	"	0.200	ND	107	70-130	11.8	20	
Chrysene	0.201	0.020	"	0.200	0.002	99.4	70-130	2.35	20	
Dibenz (a,h) anthracene	0.195	0.020	"	0.200	ND	97.3	70-130	2.73	20	
Fluoranthene	0.209	0.020	"	0.200	0.0005	104	70-130	3.37	20	

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

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B3K0939 - EPA 3580

Matrix Spike Dup (B3K0939-MSD1)

Source: Y311269-01

Prepared: 11/09/2023 Analyzed: 11/10/2023

Fluorene	0.207	0.020	mg/kg	0.200	0.006	101	70-130	2.36	20	
Indeno (1,2,3-cd) pyrene	0.193	0.020	"	0.200	ND	96.7	70-130	4.39	20	
Naphthalene	0.207	0.002	"	0.200	ND	103	70-130	1.03	20	
Phenanthrene	0.195	0.020	"	0.200	0.008	93.9	70-130	2.96	20	
Pyrene	0.196	0.020	"	0.200	0.0009	97.6	70-130	0.667	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		98.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.8	60-130			

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.

Jordan A. Bynon For Jen Pellegrini, Project Manager



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

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

Batch B3K1018 - Saturated Paste Metals

Blank (B3K1018-BLK1)

Prepared: 11/10/2023 Analyzed: 11/13/2023

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

Duplicate (B3K1018-DUP1)

Source: Y311237-01

Prepared: 11/10/2023 Analyzed: 11/13/2023

SAR	ND	0.0100	SAR	4.21				200		
Calcium PPM	438	10.0	mg/L	447			2.02	50		
Magnesium PPM	357	10.0	"	333			6.91	50		
Sodium PPM	517	10.0	"	483			6.93	50		

Batch B3K1021 - DTPA Sorbitol Preparation

Blank (B3K1021-BLK1)

Prepared: 11/10/2023 Analyzed: 11/15/2023

Boron	ND	0.100	mg/L							
-------	----	-------	------	--	--	--	--	--	--	--

Duplicate (B3K1021-DUP1)

Source: Y311150-01

Prepared: 11/10/2023 Analyzed: 11/15/2023

Boron	0.837	0.0995	mg/L	0.669			22.3	50		
-------	-------	--------	------	-------	--	--	------	----	--	--

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.

Jordan A. Bynon For Jen Pellegrini, Project Manager



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

Saturated Paste - Quality Control
Origins Laboratory, Inc.

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

Batch B3K1026 - Saturated Paste pH/EC

Blank (B3K1026-BLK1)

Prepared: 11/10/2023 Analyzed: 11/11/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3K1026-DUP1)

Source: Y311237-01

Prepared: 11/10/2023 Analyzed: 11/11/2023

pH 8.17 pH Units 8.15 0.245 25

Specific Conductance (EC) 5.01 0.00500 mmhos/cm 4.91 1.97 25

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

Andy Sagen
 Project Number: [none]
 Project: KMG - Bryant 16,23,36-30

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

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

Batch L717223 -

DUP (L 96284-DUP)

Source: 96284

Prepared: Analyzed: 11/15/2023

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
----------------------	----	-----	-------	--	--------	---	--	---	----	--

MS (L 96284-MS)

Source: 96284

Prepared: Analyzed: 11/15/2023

Chromium, Hexavalent	35.6	2.5	mg/Kg	38.9	<1.22	92	75-125			
----------------------	------	-----	-------	------	-------	----	--------	--	--	--

LCS (LCS)

Prepared: Analyzed: 11/15/2023

Chromium, Hexavalent	6.8	0.5	mg/Kg	8		85	75-125			
----------------------	-----	-----	-------	---	--	----	--------	--	--	--

LRB (LRB)

Prepared: Analyzed: 11/15/2023

Chromium, Hexavalent	ND	0.5	mg/Kg			-				
----------------------	----	-----	-------	--	--	---	--	--	--	--

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

Andy Sagen
Project Number: [none]
Project: KMG - Bryant 16,23,36-30

Notes and Definitions

- U Sample is Non-Detect.
 - QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.
Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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.