

March 28, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Albert Sack Unit #1**Project Number - [none]**

Attached are your analytical results for KMG - Albert Sack Unit #1 received by Origins Laboratory, Inc. March 25, 2019. This project is associated with Origins project number Y903349-01.

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

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Albert Sack Unit #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01R - 03/25/19	Y903349-01	Water	March 25, 2019 10:30	03/25/2019 17:00
BH08R - 03/25/19	Y903349-02	Water	March 25, 2019 9:30	03/25/2019 17:00
BH09R - 03/25/19	Y903349-03	Water	March 25, 2019 9:50	03/25/2019 17:00
BH10R - 03/25/19	Y903349-04	Water	March 25, 2019 10:17	03/25/2019 17:00
BH11R2 - 03/25/19	Y903349-05	Water	March 25, 2019 9:55	03/25/2019 17:00
BH12R2 - 03/25/19	Y903349-06	Water	March 25, 2019 9:17	03/25/2019 17:00
BH13 - 03/25/19	Y903349-07	Water	March 25, 2019 9:27	03/25/2019 17:00
BH14 - 03/25/19	Y903349-08	Water	March 25, 2019 9:37	03/25/2019 17:00
BH15 - 03/25/19	Y903349-09	Water	March 25, 2019 9:41	03/25/2019 17:00

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

www.originslaboratory.com

1903349

page 1 of 1

ORIGINS
LABORATORY, INC

Client: ARC Project Manager/Send Report To: Albert Sack
Address: 6899 Pecos Street, Unit C Email Address: rcornez@tasman-geo.com
Telephone Number: Project Name/Number: Albert Sack Unit #1
Samples Collected By: BRL

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
BH01A 03/25/19	3/25/19	1030	3		X				X		X	1
BH08A 03/25/19		930	1								X	2
BH09A 03/25/19		930	1								X	3
BH10A 03/25/19		1017	1								X	4
BH11A 03/25/19		955	1								X	5
BH12A 03/25/19		917	1								X	6
BH13 03/25/19		927	1								X	7
BH14 03/25/19		937	1								X	8
BH15 03/25/19		941	1								X	9
												10
Relinquished By: <u>WRL</u>	Date: <u>3-25-19</u>	Time: <u>1700</u>	Received By: <u>[Signature]</u>	Date: <u>1700</u>	Time: <u>1700</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard						
Relinquished By: <u>[Signature]</u>	Date: <u>3-25-19</u>	Time: <u>1700</u>	Received By: <u>[Signature]</u>	Date: <u>1700</u>	Time: <u>1700</u>							

Date Results Needed: 4.9

Comments:

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y903349

Client: Tasman

Client Project ID: Albert Sack #1

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 3/26/2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐ (Describe)

Cooler Number/Temperature: 1 / 4.8 °C 1 / 1 °C 1 / 1 °C 1 / 1 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" 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"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) 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 with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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) JG

3/26/19
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

BH01R - 03/25/19

3/25/2019 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903349-01 (Water)

BTEX by EPA 8260C

Benzene	80.5	50.0	ug/L	50	B9C2609	KDK	03/26/2019	03/27/2019	
Toluene	ND	50.0	"	"	"	KDK	"	"	U
Ethylbenzene	201	50.0	"	"	"	KDK	"	"	
Xylenes, total	2600	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.8 %	84-121			"	"	"	"
Surrogate: Toluene-d8	104 %	85-115			"	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

BH08R - 03/25/19

3/25/2019 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903349-02 (Water)

BTEX by EPA 8260C

Benzene	4.46	1.00	ug/L	1	B9C2609	KDK	03/26/2019	03/27/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.46	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.4 %	84-121			"	"	"
Surrogate: Toluene-d8	114 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

BH09R - 03/25/19

3/25/2019 9:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903349-03 (Water)

BTEX by EPA 8260C

Benzene	106	4.00	ug/L	4	B9C2609	KDK	03/26/2019	03/27/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.6 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

BH10R - 03/25/19
3/25/2019 10:17:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903349-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2609	KDK	03/26/2019	03/27/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.1 %	84-121	"	"	"
Surrogate: Toluene-d8	107 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

BH11R2 - 03/25/19
3/25/2019 9:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903349-05 (Water)

BTEX by EPA 8260C

Benzene	2.69	1.00	ug/L	1	B9C2609	KDK	03/26/2019	03/27/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.62	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.6 %	84-121			"	"	"	
Surrogate: Toluene-d8	106 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.3 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

BH12R2 - 03/25/19
3/25/2019 9:17:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903349-06 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B9C2609	KDK	03/26/2019	03/27/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.7 %	84-121	"	"	"
Surrogate: Toluene-d8	105 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.4 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

BH13 - 03/25/19

3/25/2019 9:27:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903349-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2609	KDK	03/26/2019	03/27/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.7 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.9 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

BH14 - 03/25/19

3/25/2019 9:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903349-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2609	KDK	03/26/2019	03/27/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.2 %	84-121	"	"	"
Surrogate: Toluene-d8	108 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

BH15 - 03/25/19

3/25/2019 9:41:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903349-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2609	KDK	03/26/2019	03/27/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B9C2609 - EPA 5030B (Water)

Blank (B9C2609-BLK1)

Prepared: 03/26/2019 Analyzed: 03/26/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5	98.0		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	100		84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B9C2609 - EPA 5030B (Water)

Blank (B9C2609-BLK2)

Prepared: 03/26/2019 Analyzed: 03/26/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5	98.2		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9C2609 - EPA 5030B (Water)										
LCS (B9C2609-BS1)					Prepared: 03/26/2019 Analyzed: 03/26/2019					
Benzene	45.4	1.00	ug/L	50.0		90.7	73.3-129			
Toluene	45.5	1.00	"	50.0		91.1	76.2-123			
Ethylbenzene	47.5	1.00	"	50.0		95.0	73.6-130			
m,p-Xylene	96.0	2.00	"	100		96.0	76.1-126			
o-Xylene	50.9	1.00	"	50.0		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.6	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B9C2609 - EPA 5030B (Water)

LCS (B9C2609-BS2)

Prepared: 03/26/2019 Analyzed: 03/26/2019

Benzene	44.4	1.00	ug/L	50.0		88.8	73.3-129			
Toluene	41.7	1.00	"	50.0		83.3	76.2-123			
Ethylbenzene	38.9	1.00	"	50.0		77.9	73.6-130			
m,p-Xylene	79.7	2.00	"	100		79.7	76.1-126			
o-Xylene	42.4	1.00	"	50.0		84.8	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.0	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B9C2609 - EPA 5030B (Water)

Matrix Spike (B9C2609-MS1)		Source: Y903350-01			Prepared: 03/26/2019 Analyzed: 03/26/2019					
Benzene	45.5	1.00	ug/L	50.0	1.58	87.9	74-130			
Toluene	42.7	1.00	"	50.0	ND	85.4	73-131			
Ethylbenzene	40.8	1.00	"	50.0	0.100	81.4	76-132			
m,p-Xylene	82.2	2.00	"	100	ND	82.2	69-139			
o-Xylene	44.3	1.00	"	50.0	ND	88.6	74-131			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.2	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B9C2609 - EPA 5030B (Water)

Matrix Spike (B9C2609-MS2)		Source: Y903350-02			Prepared: 03/26/2019 Analyzed: 03/26/2019					
Benzene	42.4	1.00	ug/L	50.0	ND	84.7	74-130			
Toluene	40.8	1.00	"	50.0	ND	81.7	73-131			
Ethylbenzene	39.5	1.00	"	50.0	ND	79.0	76-132			
m,p-Xylene	80.0	2.00	"	100	ND	80.0	69-139			
o-Xylene	42.1	1.00	"	50.0	ND	84.1	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.9	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

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

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

Batch B9C2609 - EPA 5030B (Water)

Matrix Spike Dup (B9C2609-MSD1)		Source: Y903350-01			Prepared: 03/26/2019 Analyzed: 03/26/2019					
Benzene	42.8	1.00	ug/L	50.0	1.58	82.3	74-130	6.25	20	
Toluene	41.1	1.00	"	50.0	ND	82.2	73-131	3.77	20	
Ethylbenzene	39.3	1.00	"	50.0	0.100	78.3	76-132	3.87	20	
m,p-Xylene	79.0	2.00	"	100	ND	79.0	69-139	4.01	20	
o-Xylene	42.4	1.00	"	50.0	ND	84.8	74-131	4.43	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.2	84-121			
Surrogate: Toluene-d8	64		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Albert Sack Unit #1

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

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

Batch B9C2609 - EPA 5030B (Water)

Matrix Spike Dup (B9C2609-MSD2)		Source: Y903350-02			Prepared: 03/26/2019 Analyzed: 03/26/2019					
Benzene	42.0	1.00	ug/L	50.0	ND	84.0	74-130	0.806	20	
Toluene	40.6	1.00	"	50.0	ND	81.2	73-131	0.639	20	
Ethylbenzene	38.7	1.00	"	50.0	ND	77.4	76-132	2.07	20	
m,p-Xylene	77.8	2.00	"	100	ND	77.8	69-139	2.85	20	
o-Xylene	42.0	1.00	"	50.0	ND	84.0	74-131	0.214	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.6	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Albert Sack Unit #1

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.

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 For Noelle Doyle Mathis, President



April 04, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Albert Sack Unit #1

Project Number - 88635366

Attached are your analytical results for KMG - Albert Sack Unit #1 received by Origins Laboratory, Inc. March 28, 2019. This project is associated with Origins project number Y903445-01.

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

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88635366

Project: KMG - Albert Sack Unit #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH02R-032819	Y903445-01	Water	March 28, 2019 10:21	03/28/2019 17:07
BH05R2-032819	Y903445-02	Water	March 28, 2019 10:25	03/28/2019 17:07

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.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

www.originslaboratory.com

page 1 of 1

9403445

ORIGINS LABORATORY, INC

Client: APL Tasman
Address: 6899 Pecos St
Denver Co 80221

Project Manager/Send Report To: Robert Cornez
Email Address: Cornez@tasman-geo.com
Project Name/Number: Albert Sack Unit #1 / 88635366
Samples Collected By: Chris A

Telephone Number: _____

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Conister #	Other		
BH02-032819	03/28/19	10:21	3	X				X				BTEX	1
BH05-032819	03/28/19	10:25	3	X				X				X	2
													3
													4
													5
													6
													7
													8
													9
													10
Relinquished By:	Date: 3/28/19	Time:	Time:	Received By:	Date: 03/28/19	Time: 1707	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard						
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:							

970

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

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88635366

Project: KMG - Albert Sack Unit #1

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 1903445

Client: Tasman

Client Project ID: KMG - Albert Sack

Checklist Completed by: JD

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 3/28/19

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: (Describe)

Cooler Number/Temperature: 1 / 4.7 °C / °C / °C / °C

Thermometer ID: TDOB

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>sampled 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 4-1-19

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

BH02R-032819

3/28/2019 10:21:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903445-01 (Water)

BTEX by EPA 8260C

Benzene	2040	100	ug/L	100	B9D0106	JTD	04/01/2019	04/03/2019	
Toluene	ND	1.00	"	1	"	JTD	"	04/02/2019	U
Ethylbenzene	839	100	"	100	"	JTD	"	04/03/2019	
Xylenes, total	9310	100	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.8 %	84-121			"	"	04/02/2019
Surrogate: Toluene-d8	100 %	85-115			"	"	04/03/2019
Surrogate: 4-Bromofluorobenzene	98.2 %	84-114			"	"	04/02/2019

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

BH05R2-032819

3/28/2019 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903445-02 (Water)

BTEX by EPA 8260C

Benzene	1.72	1.00	ug/L	1	B9D0106	JTD	04/01/2019	04/02/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	232	50.0	"	50	"	JTD	"	04/03/2019	
Xylenes, total	1040	50.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.7 %	84-121			"	"	04/02/2019
Surrogate: Toluene-d8	98.0 %	85-115			"	"	04/03/2019
Surrogate: 4-Bromofluorobenzene	98.1 %	84-114			"	"	04/02/2019

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D0106 - EPA 5030B (Water)										
Blank (B9D0106-BLK1)					Prepared: 04/01/2019 Analyzed: 04/01/2019					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.4	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.4	84-114			

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D0106 - EPA 5030B (Water)										
LCS (B9D0106-BS1)					Prepared: 04/01/2019 Analyzed: 04/01/2019					
Benzene	48.2	1.00	ug/L	50.0		96.4	73.3-129			
Toluene	45.7	1.00	"	50.0		91.5	76.2-123			
Ethylbenzene	44.9	1.00	"	50.0		89.8	73.6-130			
m,p-Xylene	91.7	2.00	"	100		91.7	76.1-126			
o-Xylene	46.4	1.00	"	50.0		92.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.4	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	84-114			

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

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

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

Batch B9D0106 - EPA 5030B (Water)

Matrix Spike (B9D0106-MS1)		Source: Y903429-01			Prepared: 04/01/2019 Analyzed: 04/02/2019					
Benzene	50.8	1.00	ug/L	50.0	0.100	101	74-130			
Toluene	48.8	1.00	"	50.0	ND	97.6	73-131			
Ethylbenzene	47.3	1.00	"	50.0	0.140	94.3	76-132			
m,p-Xylene	96.8	2.00	"	100	0.340	96.5	69-139			
o-Xylene	47.8	1.00	"	50.0	0.130	95.4	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		93.9	84-121			
Surrogate: Toluene-d8	64		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.4	84-114			

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

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

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

Batch B9D0106 - EPA 5030B (Water)

Matrix Spike Dup (B9D0106-MSD1)		Source: Y903429-01			Prepared: 04/01/2019 Analyzed: 04/02/2019					
Benzene	49.3	1.00	ug/L	50.0	0.100	98.4	74-130	3.08	20	
Toluene	48.2	1.00	"	50.0	ND	96.4	73-131	1.22	20	
Ethylbenzene	46.7	1.00	"	50.0	0.140	93.2	76-132	1.17	20	
m,p-Xylene	94.6	2.00	"	100	0.340	94.3	69-139	2.29	20	
o-Xylene	47.8	1.00	"	50.0	0.130	95.3	74-131	0.188	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.5	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.2	84-114			

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

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88635366

Project: KMG - Albert Sack Unit #1

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.

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 For Noelle Doyle Mathis, President



July 05, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Albert Sack Unit #1

Project Number - 88635366

Attached are your analytical results for KMG - Albert Sack Unit #1 received by Origins Laboratory, Inc. June 28, 2019. This project is associated with Origins project number Y907020-01.

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

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88635366

Project: KMG - Albert Sack Unit #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH05R2	Y907020-01	Water	June 28, 2019 14:06	06/28/2019 16:40

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.

Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

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page 1 of 1

ORIGINS LABORATORY, INC

Client: APC / Tasman Project Manager/Send Report To: Bob Cornez
Address: 6899 N Pecos St Email Address: rcornez@tasman-geo.com
Denver CO 80221 Project Name/Number: Albert Sack Unit #1 88635366
Telephone Number: 303-487-1228 Samples Collected By: MS, TC, BV

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
BH0582	06/28/19	1406	3	X				X			RTX	1
												2
												3
												4
												5
												6
												7
												8
												9
												10

Relinquished By: [Signature] Date: 06/28/19 Time: 1515
Relinquished By: [Signature] Date: 06/28/19 Time: 1640

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☒ Standard

Date Results Needed: 6/28/19

Comments:

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 191020

Client: Tasman
Client Project ID: KMG - Albert Sack

Checklist Completed by: JP

Shipped Via: HH
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 8/28/19

Airbill #: WA

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

Cooler Number/Temperature: 1 / 5.4 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: TU03

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 7/2/19

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

BH05R2

6/28/2019 2:06:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907020-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0306	KDK	07/03/2019	07/04/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.0 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9G0306 - EPA 5030B (Water)

Blank (B9G0306-BLK1)

Prepared: 07/03/2019 Analyzed: 07/03/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5	94.0	70-130				
Surrogate: Toluene-d8	64		"	62.5	102	70-130				
Surrogate: 4-Bromofluorobenzene	60		"	62.5	96.4	70-130				

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9G0306 - EPA 5030B (Water)

LCS (B9G0306-BS1)

Prepared: 07/03/2019 Analyzed: 07/03/2019

Benzene	47.0	1.00	ug/L	50.0		94.0	70-130			
Toluene	48.9	1.00	"	50.0		97.9	70-130			
Ethylbenzene	47.3	1.00	"	50.0		94.6	70-130			
m,p-Xylene	93.7	2.00	"	100		93.7	70-130			
o-Xylene	46.6	1.00	"	50.0		93.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.3	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9G0306 - EPA 5030B (Water)

Matrix Spike (B9G0306-MS1)		Source: Y907017-02			Prepared: 07/03/2019 Analyzed: 07/03/2019					
Benzene	47.8	1.00	ug/L	50.0	ND	95.5	70-130			
Toluene	48.5	1.00	"	50.0	ND	97.0	70-130			
Ethylbenzene	48.5	1.00	"	50.0	ND	97.0	70-130			
m,p-Xylene	95.7	2.00	"	100	0.200	95.5	70-130			
o-Xylene	48.6	1.00	"	50.0	ND	97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.0	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9G0306 - EPA 5030B (Water)

Matrix Spike Dup (B9G0306-MSD1)		Source: Y907017-02			Prepared: 07/03/2019 Analyzed: 07/03/2019					
Benzene	51.4	1.00	ug/L	50.0	ND	103	70-130	7.22	20	
Toluene	51.4	1.00	"	50.0	ND	103	70-130	5.84	20	
Ethylbenzene	51.6	1.00	"	50.0	ND	103	70-130	6.15	20	
m,p-Xylene	102	2.00	"	100	0.200	102	70-130	6.26	20	
o-Xylene	51.1	1.00	"	50.0	ND	102	70-130	5.07	20	
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	70-130			

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88635366

Project: KMG - Albert Sack Unit #1

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.

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.

Noelle Doyle Mathis, President

September 13, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Albert Sack Unit #1**Project Number - 88635366**

Attached are your analytical results for KMG - Albert Sack Unit #1 received by Origins Laboratory, Inc. September 11, 2019. This project is associated with Origins project number Y909158-01.

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

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88635366

Project: KMG - Albert Sack Unit #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH05R2 - 091119	Y909158-01	Water	September 11, 2019 15:45	09/11/2019 17:02

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 For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

ORIGINS
LABORATORY, INC

www.originslaboratory.com

1909158

page 1 of 1

Client: ARC / Tasman
Address: 6855 W 19th Ave
Broomfield, CO
Telephone Number: 815-979-8348
Email Address: Rcornez@tasman-gpa.com

Project Manager: Bob Cornez
Project Name: Albert Sack Unit #1
Project Number: 88635366
Samples Collected By: Alison Dahl

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #			
BH05R2-091119	9/11/2019	1545	3		X				X				1
													2
													3
													4
													5
													6
													7
													8
													9
													10

Relinquished By: Alison Dahl Date: 9/11/2019 Time: 1702

Relinquished By: Alison Dahl Date: 9/11/2019 Time: 1702

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☒ Standard

Temp Received: 2.3 Date Results Needed

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y909158

Client: Tasman

Client Project ID: Albert Sack #1

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 1/12/2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐

Cooler Number/Temperature: 1/2.3 °C / °C / °C (Describe) °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" 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"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) 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 with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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) JG

Date/Time Reviewed 9/13/19

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
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

BH05R2 - 091119

9/11/2019 3:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y909158-01 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B91208	KDK	09/12/2019	09/13/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	50.0	4.00	"	"	"	KDK	"	"	
Xylenes, total	218	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	77.2 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	83.6 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9I1208 - EPA 5030B (Water)

Blank (B9I1208-BLK1)

Prepared: 09/12/2019 Analyzed: 09/12/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	48		"	62.5	76.2	70-130				
Surrogate: Toluene-d8	60		"	62.5	96.6	70-130				
Surrogate: 4-Bromofluorobenzene	52		"	62.5	82.5	70-130				

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9I1208 - EPA 5030B (Water)

LCS (B9I1208-BS1)

Prepared: 09/12/2019 Analyzed: 09/12/2019

Benzene	46.5	1.00	ug/L	50.0		93.0	70-130			
Toluene	51.5	1.00	"	50.0		103	70-130			
Ethylbenzene	44.3	1.00	"	50.0		88.7	70-130			
m,p-Xylene	87.7	2.00	"	100		87.7	70-130			
o-Xylene	43.7	1.00	"	50.0		87.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	46		"	62.5		73.7	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	54		"	62.5		86.0	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

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

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

Batch B9I1208 - EPA 5030B (Water)

Matrix Spike (B9I1208-MS1)		Source: Y909156-04			Prepared: 09/12/2019 Analyzed: 09/12/2019					
Benzene	93.7	1.00	ug/L	50.0	52.7	81.9	70-130			
Toluene	54.5	1.00	"	50.0	ND	109	70-130			
Ethylbenzene	46.6	1.00	"	50.0	0.100	92.9	70-130			
m,p-Xylene	92.7	2.00	"	100	0.390	92.3	70-130			
o-Xylene	46.4	1.00	"	50.0	0.270	92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	46		"	62.5		73.7	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	52		"	62.5		83.9	70-130			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88635366
Project: KMG - Albert Sack Unit #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9I1208 - EPA 5030B (Water)

Matrix Spike Dup (B9I1208-MSD1)		Source: Y909156-04			Prepared: 09/12/2019 Analyzed: 09/12/2019					
Benzene	91.2	1.00	ug/L	50.0	52.7	76.8	70-130	2.73	20	
Toluene	54.4	1.00	"	50.0	ND	109	70-130	0.147	20	
Ethylbenzene	46.8	1.00	"	50.0	0.100	93.4	70-130	0.557	20	
m,p-Xylene	93.3	2.00	"	100	0.390	92.9	70-130	0.634	20	
o-Xylene	46.1	1.00	"	50.0	0.270	91.6	70-130	0.628	20	
Surrogate: 1,2-Dichloroethane-d4	46		"	62.5		73.4	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	52		"	62.5		82.6	70-130			

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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88635366

Project: KMG - Albert Sack Unit #1

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.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President