

August 09, 2018

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - HSR Hall 12-31

Project Number - 89069141

Attached are your analytical results for KMG - HSR Hall 12-31 received by Origins Laboratory, Inc. August 02, 2018. This project is associated with Origins project number Y808032-01.

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: 89069141
Project: KMG - HSR Hall 12-31

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01 - 080218	Y808032-01	Water	August 2, 2018 13:13	08/02/2018 17:00
BH02 - 080218	Y808032-02	Water	August 2, 2018 13:22	08/02/2018 17:00
BH03 - 080218	Y808032-03	Water	August 2, 2018 13:33	08/02/2018 17:00
BH04 - 080218	Y808032-04	Water	August 2, 2018 13:00	08/02/2018 17:00
BH05 - 080218	Y808032-05	Water	August 2, 2018 12:48	08/02/2018 17:00
BH06 - 080218	Y808032-06	Water	August 2, 2018 13:05	08/02/2018 17:00
BH07 - 080218	Y808032-07	Water	August 2, 2018 13:20	08/02/2018 17:00
BH08 - 080218	Y808032-08	Water	August 2, 2018 13:49	08/02/2018 17:00
BH09 - 080218	Y808032-09	Water	August 2, 2018 13:35	08/02/2018 17:00
BH10 - 080218	Y808032-10	Water	August 2, 2018 13:45	08/02/2018 17:00
BH11 - 080218	Y808032-11	Water	August 2, 2018 13:42	08/02/2018 17:00
BH12 - 080218	Y808032-12	Water	August 2, 2018 13:15	08/02/2018 17:00
BH13 - 080218	Y808032-13	Water	August 2, 2018 13:30	08/02/2018 17:00
BH14 - 080218	Y808032-14	Water	August 2, 2018 13:02	08/02/2018 17:00

Origins Laboratory, Inc.



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Tasman Geosciences

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Denver CO 80211

Bob Cornez

Project Number: 89069141

Project: KMG - HSR Hall 12-31

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: 89069141
 Project: KMG - HSR Hall 12-31

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9806032

ORIGINS

LABORATORY, INC

Client: APC / Tgsmgn Project Manager/Send Report To: Bob Cornez
 Address: 6899 N. Pecos St. Email Address: BCORNEZ@TASMAN-GEOL.COM
Denver, CO 80221 Project Name/Number: HSR Hall 12-31 / 89069141
 Telephone Number: 970.481.6709 Samples Collected By: Max Dahlgren

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 Canister #			Other
BH01-080218	8/02/18	1313	3	X				X					1
BH02-080218		1322											2
BH03-080218		1333											3
BH04-080218		1300											4
BH05-080218		1248											5
BH06-080218		1305											6
BH07-080218		1320											7
BH08-080218		1349											8
BH09-080218		1355											9
BH10-080218		1345											10
Relinquished By: <u>[Signature]</u>	Date: <u>8/2/18</u>	Time: <u>1700</u>	Time: <u>1700</u>	Received By: <u>[Signature]</u>				Date: <u>9/2/18</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 type="checkbox"/> Standard <input checked="" type="checkbox"/>	
Relinquished By:	Date:	Time:	Time:	Received By:				Date:			Time:		

Comments: None Available

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 page 2 of 2

Y809032

ORIGINS
 LABORATORY, INC

Client: ADC/795409 Project Manager/Send Report To: _____
 Address: _____ Email Address: _____
 Project Name/Number: HSR Hall 12-31/89069141
 Telephone Number: _____ Samples Collected By: _____

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	At Summ #		
BH11-080218	8/02/18	1342	3	X				X			BTEX	1
BH12-080218		1315										2
BH13-080218		1330										3
BH14-080218		1302										4
												5
												6
												7
												8
												9
												10

Relinquished By: <u>[Signature]</u>	Date: 8/2/18	Time: 1700	Received By: <u>[Signature]</u>	Date: 8/2/18	Time: 1700
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Turnaround Time:	Same Day <input type="checkbox"/>	24 Hr <input type="checkbox"/>	48 Hr <input type="checkbox"/>	72 Hr <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>
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Puls. Beaville, Missouri

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y40W3Z

Client: Tasman
 Client Project ID: KMG-HSR Hall 12-31

Checklist Completed by: JG

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Date/time completed: 8/3/2018

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

Cooler Number/Temperature: 1 / 13.6 °C _____ °C _____ °C _____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		/		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		/		
Additional Comments (if any):				

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

Reviewed by (Project Manager) JG

Date/Time Reviewed 8/10/18

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH01 - 080218

8/2/2018 1:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808032-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0306	KDK	08/03/2018	08/06/2018	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	89.5 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	97.2 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH02 - 080218

8/2/2018 1:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808032-02 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8H0306	KDK	08/03/2018	08/06/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	162	4.00	"	"	"	KDK	"	"	
Xylenes, total	2090	20.0	"	20	"	KDK	"	08/07/2018	

Surrogate: 1,2-Dichloroethane-d4	85.4 %	84-121			"	"		08/06/2018	
Surrogate: Toluene-d8	99.6 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	95.2 %	84-114			"	"		08/07/2018	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH03 - 080218

8/2/2018 1:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808032-03 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8H0306	KDK	08/03/2018	08/06/2018	U
Toluene	2980	100	"	100	"	KDK	"	08/07/2018	
Ethylbenzene	187	4.00	"	4	"	KDK	"	08/06/2018	
Xylenes, total	2370	100	"	100	"	KDK	"	08/07/2018	

Surrogate: 1,2-Dichloroethane-d4	91.1 %	84-121			"	"		08/06/2018	
Surrogate: Toluene-d8	105 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	114 %	84-114			"	"		"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH04 - 080218

8/2/2018 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808032-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0306	KDK	08/03/2018	08/06/2018	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	96.5 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	108 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.2 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH05 - 080218
8/2/2018 12:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808032-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0306	KDK	08/03/2018	08/06/2018	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	90.7 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH06 - 080218

8/2/2018 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808032-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0306	KDK	08/03/2018	08/06/2018	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	89.3 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	96.7 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH07 - 080218

8/2/2018 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808032-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0306	KDK	08/03/2018	08/06/2018	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	90.0 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	96.8 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH08 - 080218

8/2/2018 1:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808032-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0306	KDK	08/03/2018	08/06/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	48.6	1.00	"	"	"	KDK	"	"	
Xylenes, total	422	50.0	"	50	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	91.8 %	84-121			"	"			
Surrogate: Toluene-d8	98.1 %	85-115			"	"			
Surrogate: 4-Bromofluorobenzene	95.2 %	84-114			"	"		08/07/2018	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH09 - 080218

8/2/2018 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808032-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0306	KDK	08/03/2018	08/06/2018	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	91.5 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	98.6 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH10 - 080218

8/2/2018 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808032-10 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8H0306	KDK	08/03/2018	08/06/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	147	4.00	"	"	"	KDK	"	"	
Xylenes, total	2040	100	"	100	"	KDK	"	08/07/2018	

Surrogate: 1,2-Dichloroethane-d4	115 %	84-121			"	"		"	
Surrogate: Toluene-d8	99.7 %	85-115			"	"		08/06/2018	
Surrogate: 4-Bromofluorobenzene	95.0 %	84-114			"	"		08/07/2018	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH11 - 080218

8/2/2018 1:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808032-11 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8H0306	KDK	08/03/2018	08/06/2018	U
Toluene	2220	100	"	100	"	KDK	"	08/07/2018	
Ethylbenzene	157	4.00	"	4	"	KDK	"	08/06/2018	
Xylenes, total	2210	100	"	100	"	KDK	"	08/07/2018	

Surrogate: 1,2-Dichloroethane-d4	91.4 %	84-121			"	"		08/06/2018	
Surrogate: Toluene-d8	102 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	114 %	84-114			"	"		"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH12 - 080218

8/2/2018 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808032-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0306	KDK	08/03/2018	08/06/2018	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	92.0 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH13 - 080218

8/2/2018 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808032-13 (Water)

BTEX by EPA 8260C

Benzene	21.4	4.00	ug/L	4	B8H0306	KDK	08/03/2018	08/06/2018	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	186	4.00	"	"	"	KDK	"	"	
Xylenes, total	2190	50.0	"	50	"	KDK	"	08/08/2018	

Surrogate: 1,2-Dichloroethane-d4	90.0 %	84-121			"	"		08/06/2018	
Surrogate: Toluene-d8	101 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	95.1 %	84-114			"	"		08/07/2018	

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: 89069141
 Project: KMG - HSR Hall 12-31

BH14 - 080218

8/2/2018 1:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808032-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0306	KDK	08/03/2018	08/06/2018	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	94.5 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.9 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B8H0306 - EPA 5030B (Water)

Blank (B8H0306-BLK1)

Prepared: 08/03/2018 Analyzed: 08/03/2018

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	62		"	62.5		98.4	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	84-114			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B8H0306 - EPA 5030B (Water)

Blank (B8H0306-BLK2)

Prepared: 08/03/2018 Analyzed: 08/03/2018

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	66		"	62.5	105		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5	95.8		84-114			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B8H0306 - EPA 5030B (Water)

LCS (B8H0306-BS1)

Prepared: 08/03/2018 Analyzed: 08/03/2018

Benzene	55.8	1.00	ug/L	50.0		112	73.3-129			
Toluene	56.4	1.00	"	50.0		113	76.2-123			
Ethylbenzene	59.8	1.00	"	50.0		120	73.6-130			
m,p-Xylene	117	2.00	"	100		117	76.1-126			
o-Xylene	55.7	1.00	"	50.0		111	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	84-121			
Surrogate: Toluene-d8	66		"	62.5		106	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	84-114			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B8H0306 - EPA 5030B (Water)

LCS (B8H0306-BS2)

Prepared: 08/03/2018 Analyzed: 08/03/2018

Benzene	40.5	1.00	ug/L	50.0		80.9	73.3-129			
Toluene	49.2	1.00	"	50.0		98.5	76.2-123			
Ethylbenzene	48.3	1.00	"	50.0		96.7	73.6-130			
m,p-Xylene	103	2.00	"	100		103	76.1-126			
o-Xylene	44.4	1.00	"	50.0		88.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B8H0306 - EPA 5030B (Water)

Matrix Spike (B8H0306-MS1)	Source: Y808029-01			Prepared: 08/03/2018 Analyzed: 08/03/2018						
Benzene	44.0	1.00	ug/L	50.0	ND	88.0	74-130			
Toluene	50.1	1.00	"	50.0	ND	100	73-131			
Ethylbenzene	49.2	1.00	"	50.0	ND	98.4	76-132			
m,p-Xylene	96.6	2.00	"	100	ND	96.6	69-139			
o-Xylene	48.4	1.00	"	50.0	ND	96.7	74-131			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.8	84-121			
Surrogate: Toluene-d8	69		"	62.5		111	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	84-114			

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B8H0306 - EPA 5030B (Water)

Matrix Spike (B8H0306-MS2)	Source: Y808029-02			Prepared: 08/03/2018 Analyzed: 08/04/2018						
Benzene	47.8	1.00	ug/L	50.0	ND	95.5	74-130			
Toluene	54.5	1.00	"	50.0	ND	109	73-131			
Ethylbenzene	54.5	1.00	"	50.0	ND	109	76-132			
m,p-Xylene	107	2.00	"	100	ND	107	69-139			
o-Xylene	51.8	1.00	"	50.0	ND	104	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	69		"	62.5		110	85-115			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	84-114			

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B8H0306 - EPA 5030B (Water)

Matrix Spike Dup (B8H0306-MSD1)	Source: Y808029-01			Prepared: 08/03/2018 Analyzed: 08/04/2018						
Benzene	45.3	1.00	ug/L	50.0	ND	90.7	74-130	2.93	20	
Toluene	48.6	1.00	"	50.0	ND	97.2	73-131	3.10	20	
Ethylbenzene	52.9	1.00	"	50.0	ND	106	76-132	7.29	20	
m,p-Xylene	104	2.00	"	100	ND	104	69-139	7.43	20	
o-Xylene	50.2	1.00	"	50.0	ND	100	74-131	3.75	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	84-114			

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 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B8H0306 - EPA 5030B (Water)

Matrix Spike Dup (B8H0306-MSD2)	Source: Y808029-02			Prepared: 08/03/2018 Analyzed: 08/04/2018						
Benzene	45.9	1.00	ug/L	50.0	ND	91.8	74-130	3.97	20	
Toluene	49.2	1.00	"	50.0	ND	98.4	73-131	10.2	20	
Ethylbenzene	54.6	1.00	"	50.0	ND	109	76-132	0.293	20	
m,p-Xylene	106	2.00	"	100	ND	106	69-139	0.678	20	
o-Xylene	52.0	1.00	"	50.0	ND	104	74-131	0.366	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.6	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	84-114			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89069141
Project: KMG - HSR Hall 12-31

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

October 26, 2018

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - HSR Hall 12-31

Project Number - 89069141

Attached are your analytical results for KMG - HSR Hall 12-31 received by Origins Laboratory, Inc. October 24, 2018. This project is associated with Origins project number Y810376-01.

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: 89069141
Project: KMG - HSR Hall 12-31

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH15 - 102418	Y810376-01	Water	October 24, 2018 10:20	10/24/2018 16:30

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31



www.originslaboratory.com

Y810376

page 1 of 1

Client: APC/TASMAN
 Address: 6899 N Pecos St.
 Denver / CO / 80221
 Telephone Number: 970 4816909
 Email Address: rcornez@ksmm-geo.com

Project Manager: Bob Cornez
 Project Name: HSR-HALL 12-31
 Project Number: 8089141
 Samples Collected By: Max Dahlgren

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	Sample Instructions	Turnaround Time:					
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #				Other	Other			
BH15-102418	10/24/18	1620	3	X	X	X		X			BTEX		Same Day <input type="checkbox"/>	24 Hr <input type="checkbox"/>	48 Hr <input type="checkbox"/>	72 Hr <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>	

Relinquished By: [Signature]
 Date: 10/24/18
 Relinquished By: [Signature]
 Date: 10/24/18

Temp Received: 4.8
 Date Results Needed

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: 89069141
 Project: KMG - HSR Hall 12-31

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y810376 Client: Tasman
 Client Project ID: KMG - HSR Hall 12-31
 Checklist Completed by: JG Shipped Via: HD
 Date/time completed: 10 / 24 / 2018 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 4.8 °C _____ / _____ °C _____ / _____ °C (Describe)
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 10/25/18

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: 89069141
 Project: KMG - HSR Hall 12-31

BH15 - 102418
10/24/2018 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810376-01 (Water)

BTEX by EPA 8260C

Benzene	75.6	1.00	ug/L	1	B8J2501	JTD	10/25/2018	10/25/2018	
Toluene	1.03	1.00	"	"	"	JTD	"	"	
Ethylbenzene	254	20.0	"	20	"	KDK	"	10/26/2018	
Xylenes, total	3710	20.0	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"		10/25/2018	
Surrogate: Toluene-d8	95.9 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	98.4 %	84-114			"	"		"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B8J2501 - EPA 5030B (Water)

Blank (B8J2501-BLK1)

Prepared: 10/25/2018 Analyzed: 10/25/2018

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	64		"	62.5	103		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5	95.2		84-114			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B8J2501 - EPA 5030B (Water)

LCS (B8J2501-BS1)

Prepared: 10/25/2018 Analyzed: 10/25/2018

Benzene	49.9	1.00	ug/L	50.0		99.7	73.3-129			
Toluene	49.9	1.00	"	50.0		99.9	76.2-123			
Ethylbenzene	50.5	1.00	"	50.0		101	73.6-130			
m,p-Xylene	103	2.00	"	100		103	76.1-126			
o-Xylene	47.9	1.00	"	50.0		95.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.3	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.8	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	84-114			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B8J2501 - EPA 5030B (Water)

Matrix Spike (B8J2501-MS1)	Source: Y810377-01			Prepared: 10/25/2018 Analyzed: 10/26/2018						
Benzene	53.6	1.00	ug/L	50.0	0.150	107	74-130			
Toluene	52.7	1.00	"	50.0	0.380	105	73-131			
Ethylbenzene	52.4	1.00	"	50.0	ND	105	76-132			
m,p-Xylene	107	2.00	"	100	ND	107	69-139			
o-Xylene	49.7	1.00	"	50.0	ND	99.5	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.0	84-121			
Surrogate: Toluene-d8	60		"	62.5		95.3	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B8J2501 - EPA 5030B (Water)

Matrix Spike Dup (B8J2501-MSD1)	Source: Y810377-01			Prepared: 10/25/2018 Analyzed: 10/26/2018						
Benzene	55.1	1.00	ug/L	50.0	0.150	110	74-130	2.87	20	
Toluene	55.2	1.00	"	50.0	0.380	110	73-131	4.60	20	
Ethylbenzene	54.4	1.00	"	50.0	ND	109	76-132	3.74	20	
m,p-Xylene	111	2.00	"	100	ND	111	69-139	4.14	20	
o-Xylene	52.0	1.00	"	50.0	ND	104	74-131	4.52	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.8	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.8	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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: 89069141
Project: KMG - HSR Hall 12-31

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

November 15, 2018

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - HSR Hall 12-31

Project Number - 89069141

Attached are your analytical results for KMG - HSR Hall 12-31 received by Origins Laboratory, Inc. November 12, 2018. This project is associated with Origins project number Y811193-01.

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: 89069141
 Project: KMG - HSR Hall 12-31

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01 - 111218	Y811193-01	Water	November 12, 2018 13:35	11/12/2018 16:54
BH02 - 111218	Y811193-02	Water	November 12, 2018 14:26	11/12/2018 16:54
BH03 - 111218	Y811193-03	Water	November 12, 2018 14:42	11/12/2018 16:54
BH04 - 111218	Y811193-04	Water	November 12, 2018 13:20	11/12/2018 16:54
BH05 - 111218	Y811193-05	Water	November 12, 2018 13:50	11/12/2018 16:54
BH06 - 111218	Y811193-06	Water	November 12, 2018 14:00	11/12/2018 16:54
BH07 - 111218	Y811193-07	Water	November 12, 2018 13:54	11/12/2018 16:54
BH08 - 111218	Y811193-08	Water	November 12, 2018 15:00	11/12/2018 16:54
BH09 - 111218	Y811193-09	Water	November 12, 2018 13:40	11/12/2018 16:54
BH10 - 111218	Y811193-10	Water	November 12, 2018 14:45	11/12/2018 16:54
BH11 - 111218	Y811193-11	Water	November 12, 2018 14:55	11/12/2018 16:54
BH12 - 111218	Y811193-12	Water	November 12, 2018 14:09	11/12/2018 16:54
BH13 - 111218	Y811193-13	Water	November 12, 2018 14:30	11/12/2018 16:54
BH14 - 111218	Y811193-14	Water	November 12, 2018 13:23	11/12/2018 16:54

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: 89069141
Project: KMG - HSR Hall 12-31

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH15 - 111218	Y811193-15	Water	November 12, 2018 14:20	11/12/2018 16:54

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: 89069141
 Project: KMG - HSR Hall 12-31

www.originslaboratory.com
 1/81193
 page 1 of 2

Client: APC/Tasman Project Manager/Send Report To: Bob Cornez
 Address: 6899 Pecos St Email Address: rcornez@tasman-geo.com
 Denver CO 80211 Project Name/Number: HSR Hall/89069141
 Telephone Number: 815-974-8348 Samples Collected By: Alison Dahl, Brian Gabel

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
BH01-11218	11/12/18	1355	3	X				X			BTEX	
BH02-11218		1426									X	
BH03-11218		1442										
BH04-11218		1320										
BH05-11218		1350										
BH06-11218		1400										
BH07-11218		1354										
BH08-11218		1500										
BH09-11218		1340										
BH10-11218		1445										
Relinquished By: Alison Dahl	Date: 11/12/2018	Time: 1654	Time: 1654	Received By: [Signature]	Date: 11-12-18	Time: 1634	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard					

Comments: 4,4 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: 89069141
 Project: KMG - HSR Hall 12-31

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y811193

Client: Tasman
 Client Project ID: KMG - HSR Hall

Checklist Completed by: JG

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Date/time completed: 11/13/2018

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

Cooler Number/Temperature: 1 / 3.9 °C / °C / °C / °C (Describe)

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.

JG
 Reviewed by (Project Manager)

11/14/18
 Date/Time Reviewed

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH01 - 111218

11/12/2018 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811193-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1307	KDK	11/13/2018	11/14/2018	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	104 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	98.8 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH02 - 111218
11/12/2018 2:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811193-02 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8K1307	KDK	11/13/2018	11/14/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	138	4.00	"	"	"	KDK	"	"	
Xylenes, total	2220	50.0	"	50	"	JTD	"	11/14/2018	

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"		11/14/2018	
Surrogate: Toluene-d8	99.2 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	96.6 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH03 - 111218
11/12/2018 2:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811193-03 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8K1307	KDK	11/13/2018	11/14/2018	U
Toluene	2030	50.0	"	50	"	JTD	"	11/14/2018	
Ethylbenzene	137	4.00	"	4	"	KDK	"	11/14/2018	
Xylenes, total	1820	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"		"	
Surrogate: Toluene-d8	101 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	95.6 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH04 - 111218

11/12/2018 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811193-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1307	KDK	11/13/2018	11/14/2018	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	106 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	98.9 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.3 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH05 - 111218

11/12/2018 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811193-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1307	KDK	11/13/2018	11/14/2018	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	105 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	98.0 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH06 - 111218
11/12/2018 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811193-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1307	KDK	11/13/2018	11/14/2018	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	103 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	98.3 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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: 89069141
 Project: KMG - HSR Hall 12-31

BH07 - 111218

11/12/2018 1:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811193-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1307	KDK	11/13/2018	11/14/2018	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	103 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.4 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH08 - 111218

11/12/2018 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811193-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1307	KDK	11/13/2018	11/14/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	30.1	1.00	"	"	"	KDK	"	"	
Xylenes, total	318	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.5 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH09 - 111218

11/12/2018 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811193-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1307	KDK	11/13/2018	11/14/2018	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	98.4 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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: 89069141
 Project: KMG - HSR Hall 12-31

BH10 - 111218
11/12/2018 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811193-10 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8K1307	KDK	11/13/2018	11/14/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	145	4.00	"	"	"	KDK	"	"	
Xylenes, total	1930	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.0 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH11 - 111218
11/12/2018 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811193-11 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8K1307	KDK	11/13/2018	11/14/2018	U
Toluene	841	20.0	"	20	"	KDK	"	11/14/2018	
Ethylbenzene	104	4.00	"	4	"	KDK	"	11/14/2018	
Xylenes, total	1290	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"		"	
Surrogate: Toluene-d8	103 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.6 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH12 - 111218
11/12/2018 2:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811193-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1307	KDK	11/13/2018	11/14/2018	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	101 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH13 - 111218
11/12/2018 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811193-13 (Water)

BTEX by EPA 8260C

Benzene	4.76	4.00	ug/L	4	B8K1307	KDK	11/13/2018	11/14/2018	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	138	4.00	"	"	"	KDK	"	"	
Xylenes, total	1600	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH14 - 111218
11/12/2018 1:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811193-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1307	KDK	11/13/2018	11/14/2018	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	102 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.8 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH15 - 111218
11/12/2018 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811193-15 (Water)

BTEX by EPA 8260C

Benzene	64.3	1.00	ug/L	1	B8K1307	KDK	11/13/2018	11/14/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	249	10.0	"	10	"	KDK	"	11/14/2018	
Xylenes, total	3370	10.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"		11/14/2018	
Surrogate: Toluene-d8	101 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	96.9 %	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: 89069141
 Project: KMG - HSR Hall 12-31

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 B8K1307 - EPA 5030B (Water)

Blank (B8K1307-BLK1)

Prepared: 11/13/2018 Analyzed: 11/13/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							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
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B8K1307 - EPA 5030B (Water)

Blank (B8K1307-BLK2)

Prepared: 11/13/2018 Analyzed: 11/13/2018

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	65		"	62.5	104		84-121			
Surrogate: Toluene-d8	61		"	62.5	97.7		85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	98.0		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: 89069141
 Project: KMG - HSR Hall 12-31

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 B8K1307 - EPA 5030B (Water)

LCS (B8K1307-BS1)

Prepared: 11/13/2018 Analyzed: 11/13/2018

Benzene	55.0	1.00	ug/L	50.0		110	73.3-129			
Toluene	55.3	1.00	"	50.0		111	76.2-123			
Ethylbenzene	55.2	1.00	"	50.0		110	73.6-130			
m,p-Xylene	111	2.00	"	100		111	76.1-126			
o-Xylene	55.1	1.00	"	50.0		110	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.2	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.9	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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: 89069141
 Project: KMG - HSR Hall 12-31

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 B8K1307 - EPA 5030B (Water)

LCS (B8K1307-BS2)

Prepared: 11/13/2018 Analyzed: 11/13/2018

Benzene	52.9	1.00	ug/L	50.0		106	73.3-129			
Toluene	52.6	1.00	"	50.0		105	76.2-123			
Ethylbenzene	52.5	1.00	"	50.0		105	73.6-130			
m,p-Xylene	106	2.00	"	100		106	76.1-126			
o-Xylene	53.8	1.00	"	50.0		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.1	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.7	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B8K1307 - EPA 5030B (Water)

Matrix Spike (B8K1307-MS1)	Source: Y811185-01			Prepared: 11/13/2018 Analyzed: 11/13/2018						
Benzene	54.5	1.00	ug/L	50.0	ND	109	74-130			
Toluene	54.9	1.00	"	50.0	ND	110	73-131			
Ethylbenzene	54.8	1.00	"	50.0	ND	110	76-132			
m,p-Xylene	110	2.00	"	100	0.280	110	69-139			
o-Xylene	56.2	1.00	"	50.0	ND	112	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.2	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.7	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B8K1307 - EPA 5030B (Water)

Matrix Spike (B8K1307-MS2)	Source: Y811186-01			Prepared: 11/13/2018 Analyzed: 11/14/2018						
Benzene	54.8	1.00	ug/L	50.0	ND	110	74-130			
Toluene	54.9	1.00	"	50.0	ND	110	73-131			
Ethylbenzene	55.2	1.00	"	50.0	ND	110	76-132			
m,p-Xylene	111	2.00	"	100	0.220	111	69-139			
o-Xylene	55.9	1.00	"	50.0	ND	112	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.6	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.2	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		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: 89069141
 Project: KMG - HSR Hall 12-31

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 B8K1307 - EPA 5030B (Water)

Matrix Spike Dup (B8K1307-MSD1)	Source: Y811185-01			Prepared: 11/13/2018 Analyzed: 11/14/2018						
Benzene	53.4	1.00	ug/L	50.0	ND	107	74-130	2.02	20	
Toluene	53.2	1.00	"	50.0	ND	106	73-131	3.11	20	
Ethylbenzene	53.3	1.00	"	50.0	ND	107	76-132	2.83	20	
m,p-Xylene	107	2.00	"	100	0.280	107	69-139	2.92	20	
o-Xylene	54.1	1.00	"	50.0	ND	108	74-131	3.77	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.3	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.5	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: 89069141
 Project: KMG - HSR Hall 12-31

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 B8K1307 - EPA 5030B (Water)

Matrix Spike Dup (B8K1307-MSD2)	Source: Y811186-01			Prepared: 11/13/2018 Analyzed: 11/14/2018						
Benzene	52.2	1.00	ug/L	50.0	ND	104	74-130	4.79	20	
Toluene	52.6	1.00	"	50.0	ND	105	73-131	4.17	20	
Ethylbenzene	52.7	1.00	"	50.0	ND	105	76-132	4.76	20	
m,p-Xylene	107	2.00	"	100	0.220	107	69-139	4.00	20	
o-Xylene	53.2	1.00	"	50.0	ND	106	74-131	4.87	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.7	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.8	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89069141
Project: KMG - HSR Hall 12-31

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

January 29, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - HSR Hall 12-31

Project Number - 89069141

Attached are your analytical results for KMG - HSR Hall 12-31 received by Origins Laboratory, Inc. January 23, 2019. This project is associated with Origins project number Y901307-01.

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: 89069141
Project: KMG - HSR Hall 12-31

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH16 - 012319	Y901307-01	Water	January 23, 2019 14:00	01/23/2019 16:05
BH17 - 012319	Y901307-02	Water	January 23, 2019 13:41	01/23/2019 16:05
BH18 - 012319	Y901307-03	Water	January 23, 2019 13:45	01/23/2019 16:05
BH19 - 012319	Y901307-04	Water	January 23, 2019 13:56	01/23/2019 16:05

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: 89069141
 Project: KMG - HSR Hall 12-31

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1901307 Client: Tasman
 Client Project ID: KMG-HSR Hall 12-31
 Checklist Completed by: JG Shipped Via: HD
 Date/time completed: 1/24/2019 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 4.0 °C _____ / _____ °C _____ / _____ °C (Describe)
 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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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 1/25/19

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: 89069141
 Project: KMG - HSR Hall 12-31

BH16 - 012319
1/23/2019 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901307-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A2403	KDK	01/24/2019	01/24/2019	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	92.8 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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: 89069141
 Project: KMG - HSR Hall 12-31

BH17 - 012319
1/23/2019 1:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901307-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A2403	KDK	01/24/2019	01/24/2019	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	107 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	105 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH18 - 012319
1/23/2019 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901307-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A2403	KDK	01/24/2019	01/24/2019	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	104 %	84-121			"	"		"	
Surrogate: Toluene-d8	111 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH19 - 012319
1/23/2019 1:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901307-04 (Water)

BTEX by EPA 8260C

Benzene	45.5	1.00	ug/L	1	B9A2403	KDK	01/24/2019	01/24/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	67.6	1.00	"	"	"	KDK	"	"	
Xylenes, total	374	20.0	"	20	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	104 %			84-121		"	"	"	
Surrogate: Toluene-d8	100 %			85-115		"	"	"	
Surrogate: 4-Bromofluorobenzene	94.3 %			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: 89069141
 Project: KMG - HSR Hall 12-31

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 B9A2403 - EPA 5030B (Water)

Blank (B9A2403-BLK1)

Prepared: 01/24/2019 Analyzed: 01/24/2019

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	67		"	62.5	108		84-121			
Surrogate: Toluene-d8	61		"	62.5	98.2		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: 89069141
 Project: KMG - HSR Hall 12-31

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 B9A2403 - EPA 5030B (Water)

LCS (B9A2403-BS1)

Prepared: 01/24/2019 Analyzed: 01/24/2019

Benzene	57.9	1.00	ug/L	50.0		116	73.3-129			
Toluene	58.0	1.00	"	50.0		116	76.2-123			
Ethylbenzene	55.8	1.00	"	50.0		112	73.6-130			
m,p-Xylene	102	2.00	"	100		102	76.1-126			
o-Xylene	55.5	1.00	"	50.0		111	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		103	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.9	85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		93.7	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B9A2403 - EPA 5030B (Water)

Matrix Spike (B9A2403-MS1)	Source: Y901307-01			Prepared: 01/24/2019 Analyzed: 01/24/2019						
Benzene	59.4	1.00	ug/L	50.0	ND	119	74-130			
Toluene	48.1	1.00	"	50.0	ND	96.2	73-131			
Ethylbenzene	62.4	1.00	"	50.0	ND	125	76-132			
m,p-Xylene	125	2.00	"	100	ND	125	69-139			
o-Xylene	61.2	1.00	"	50.0	ND	122	74-131			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	84-121			
Surrogate: Toluene-d8	50		"	62.5		80.7	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B9A2403 - EPA 5030B (Water)

Matrix Spike Dup (B9A2403-MSD1)	Source: Y901307-01			Prepared: 01/24/2019 Analyzed: 01/24/2019						
Benzene	57.7	1.00	ug/L	50.0	ND	115	74-130	2.80	20	
Toluene	57.4	1.00	"	50.0	ND	115	73-131	17.5	20	
Ethylbenzene	60.6	1.00	"	50.0	ND	121	76-132	2.97	20	
m,p-Xylene	121	2.00	"	100	ND	121	69-139	2.64	20	
o-Xylene	59.8	1.00	"	50.0	ND	120	74-131	2.30	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.8	85-115			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.6	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89069141
Project: KMG - HSR Hall 12-31

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

February 22, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - HSR Hall 12-31

Project Number - 89069141

Attached are your analytical results for KMG - HSR Hall 12-31 received by Origins Laboratory, Inc. February 20, 2019. This project is associated with Origins project number Y902272-01.

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: 89069141
 Project: KMG - HSR Hall 12-31

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01 - 022019	Y902272-01	Water	February 20, 2019 11:42	02/20/2019 17:00
BH02 - 022019	Y902272-02	Water	February 20, 2019 13:20	02/20/2019 17:00
BH03 - 022019	Y902272-03	Water	February 20, 2019 13:40	02/20/2019 17:00
BH04 - 022019	Y902272-04	Water	February 20, 2019 12:00	02/20/2019 17:00
BH05 - 022019	Y902272-05	Water	February 20, 2019 11:40	02/20/2019 17:00
BH06 - 022019	Y902272-06	Water	February 20, 2019 12:00	02/20/2019 17:00
BH07 - 022019	Y902272-07	Water	February 20, 2019 12:16	02/20/2019 17:00
BH08 - 022019	Y902272-08	Water	February 20, 2019 14:00	02/20/2019 17:00
BH09 - 022019	Y902272-09	Water	February 20, 2019 12:20	02/20/2019 17:00
BH10 - 022019	Y902272-10	Water	February 20, 2019 14:25	02/20/2019 17:00
BH11 - 022019	Y902272-11	Water	February 20, 2019 13:52	02/20/2019 17:00
BH12 - 022019	Y902272-12	Water	February 20, 2019 12:43	02/20/2019 17:00
BH13 - 022019	Y902272-13	Water	February 20, 2019 14:08	02/20/2019 17:00
BH14 - 022019	Y902272-14	Water	February 20, 2019 12:45	02/20/2019 17:00

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: 89069141
Project: KMG - HSR Hall 12-31

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH15 - 022019	Y902272-15	Water	February 20, 2019 14:22	02/20/2019 17:00
BH16 - 022019	Y902272-16	Water	February 20, 2019 13:00	02/20/2019 17:00
BH17 - 022019	Y902272-17	Water	February 20, 2019 12:59	02/20/2019 17:00
BH18 - 022019	Y902272-18	Water	February 20, 2019 13:15	02/20/2019 17:00
BH19 - 022019	Y902272-19	Water	February 20, 2019 13:30	02/20/2019 17:00

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 page 2 of 2

1902272

ORIGINS
 LABORATORY, INC

Client: ABC/Tasman Project Manager/Send Report To: Bob Cornez
 Address: 6899 N Pecos St Email Address: r.cornez@tasman-geo.com
Denver, CO 80221 Project Name/Number: HSR Hall 12-31/89069141
 Telephone Number: 303-487-1228 Samples Collected By: Prison Guard, Derek Guvater

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9644

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sample #			Other
BH11-022019	2/20/19	1352	3	X	X	X	X	X					
BH12-022019		1243											
BH13-022019		1408											
BH14-022019		1245											
BH15-022019		1472											
BH16-022019		1300											
BH17-022019		1259											
BH18-022019		1315											
BH19-022019		1336											
Relinquished By:	Date:	Time:	Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:		
<i>Prison Guard</i>	2/20/19	1700			<i>[Signature]</i>	2/20/19	1700	<i>[Signature]</i>	2/20/19	1700	Same Day <input type="checkbox"/>	24 Hr <input type="checkbox"/>	72 Hr <input type="checkbox"/>
Relinquished By:	Date:	Time:	Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:	Standard <input checked="" type="checkbox"/>		

Date Results Needed:

5.2

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: 89069141
 Project: KMG - HSR Hall 12-31

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ✓ 902272

Client: Tasman
 Client Project ID: KMG - HSR Hall 12-31

Checklist Completed by: JG

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Date/time completed: 2/21/2019

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

Cooler Number/Temperature: 1 / 5.2 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) QP

Date/Time Reviewed 2/21/19

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH01 - 022019
2/20/2019 11:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B2104	KDK	02/21/2019	02/21/2019	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	98.0 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	102 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH02 - 022019
2/20/2019 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-02 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B9B2104	KDK	02/21/2019	02/22/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	182	4.00	"	"	"	KDK	"	"	
Xylenes, total	1810	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.4 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH03 - 022019
2/20/2019 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-03 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B9B2104	KDK	02/21/2019	02/22/2019	U
Toluene	2080	20.0	"	20	"	KDK	"	02/21/2019	
Ethylbenzene	201	4.00	"	4	"	KDK	"	02/22/2019	
Xylenes, total	2930	20.0	"	20	"	KDK	"	02/21/2019	

Surrogate: 1,2-Dichloroethane-d4	99.1 %	84-121			"	"		02/22/2019	
Surrogate: Toluene-d8	103 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.1 %	84-114			"	"		"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH04 - 022019
2/20/2019 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B2104	KDK	02/21/2019	02/21/2019	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	98.6 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	101 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH05 - 022019
2/20/2019 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B2104	KDK	02/21/2019	02/21/2019	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	97.0 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	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: 89069141
 Project: KMG - HSR Hall 12-31

BH06 - 022019
2/20/2019 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B2104	KDK	02/21/2019	02/21/2019	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	99.6 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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: 89069141
 Project: KMG - HSR Hall 12-31

BH07 - 022019
2/20/2019 12:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B2104	KDK	02/21/2019	02/21/2019	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	99.4 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH08 - 022019
2/20/2019 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B2104	KDK	02/21/2019	02/21/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	105	1.00	"	"	"	KDK	"	"	
Xylenes, total	1090	10.0	"	10	"	KDK	"	02/22/2019	

Surrogate: 1,2-Dichloroethane-d4	97.7 %	84-121			"	"		02/21/2019	
Surrogate: Toluene-d8	99.8 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.4 %	84-114			"	"		"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH09 - 022019
2/20/2019 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B2104	KDK	02/21/2019	02/21/2019	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	98.5 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.8 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	"	

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH10 - 022019
2/20/2019 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-10 (Water)

BTEX by EPA 8260C

Benzene	10.3	4.00	ug/L	4	B9B2104	KDK	02/21/2019	02/22/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	445	4.00	"	"	"	KDK	"	"	
Xylenes, total	6400	20.0	"	20	"	KDK	"	02/21/2019	

Surrogate: 1,2-Dichloroethane-d4	97.9 %	84-121			"	"		02/22/2019	
Surrogate: Toluene-d8	100 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.2 %	84-114			"	"		"	

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 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH11 - 022019
2/20/2019 1:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-11 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B9B2104	KDK	02/21/2019	02/21/2019	U
Toluene	113	4.00	"	"	"	KDK	"	"	
Ethylbenzene	23.8	4.00	"	"	"	KDK	"	"	
Xylenes, total	278	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.1 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	"	

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 6899 Pecos Street, Unit C
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Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH12 - 022019
2/20/2019 12:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B2104	KDK	02/21/2019	02/21/2019	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	99.7 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.9 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH13 - 022019
2/20/2019 2:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-13 (Water)

BTEX by EPA 8260C

Benzene	7.57	1.00	ug/L	1	B9B2104	KDK	02/21/2019	02/21/2019	
Toluene	203	10.0	"	10	"	KDK	"	02/22/2019	
Ethylbenzene	233	10.0	"	"	"	KDK	"	"	
Xylenes, total	3120	10.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.6 %	84-121			"	"		02/21/2019	
Surrogate: Toluene-d8	101 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	97.9 %	84-114			"	"		"	

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Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH14 - 022019
2/20/2019 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B2104	KDK	02/21/2019	02/21/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	02/22/2019	U

Surrogate: 1,2-Dichloroethane-d4	98.4 %	84-121			"	"		02/21/2019	
Surrogate: Toluene-d8	100 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"		"	

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH15 - 022019
2/20/2019 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-15 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B9B2104	KDK	02/21/2019	02/21/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	9.32	4.00	"	"	"	KDK	"	"	
Xylenes, total	56.4	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.0 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	84-114			"	"	"	"	

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 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH16 - 022019
2/20/2019 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-16 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B2104	KDK	02/21/2019	02/21/2019	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	100 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH17 - 022019
2/20/2019 12:59:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-17 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B2104	KDK	02/21/2019	02/21/2019	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	99.4 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.9 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %	84-114			"	"	"	"	

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 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH18 - 022019
2/20/2019 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-18 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B2104	KDK	02/21/2019	02/21/2019	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	99.5 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

BH19 - 022019
2/20/2019 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y902272-19 (Water)

BTEX by EPA 8260C

Benzene	80.6	1.00	ug/L	1	B9B2104	KDK	02/21/2019	02/21/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	177	1.00	"	"	"	KDK	"	"	
Xylenes, total	550	10.0	"	10	"	KDK	"	02/22/2019	

Surrogate: 1,2-Dichloroethane-d4	98.3 %	84-121			"	"		02/21/2019	
Surrogate: Toluene-d8	100 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	98.1 %	84-114			"	"		"	

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B9B2104 - EPA 5030B (Water)

Blank (B9B2104-BLK1)

Prepared: 02/21/2019 Analyzed: 02/21/2019

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	62		"	62.5		99.4	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
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 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B9B2104 - EPA 5030B (Water)

LCS (B9B2104-BS1)

Prepared: 02/21/2019 Analyzed: 02/21/2019

Benzene	54.3	1.00	ug/L	50.0		109	73.3-129			
Toluene	52.3	1.00	"	50.0		105	76.2-123			
Ethylbenzene	52.3	1.00	"	50.0		105	73.6-130			
m,p-Xylene	103	2.00	"	100		103	76.1-126			
o-Xylene	51.6	1.00	"	50.0		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		93.9	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B9B2104 - EPA 5030B (Water)

Matrix Spike (B9B2104-MS1)	Source: Y902264-01			Prepared: 02/21/2019 Analyzed: 02/21/2019						
Benzene	59.1	1.00	ug/L	50.0	ND	118	74-130			
Toluene	56.7	1.00	"	50.0	ND	113	73-131			
Ethylbenzene	57.2	1.00	"	50.0	0.070	114	76-132			
m,p-Xylene	112	2.00	"	100	0.220	112	69-139			
o-Xylene	55.4	1.00	"	50.0	ND	111	74-131			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.8	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.4	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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 Denver CO 80211

Bob Cornez
 Project Number: 89069141
 Project: KMG - HSR Hall 12-31

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 B9B2104 - EPA 5030B (Water)

Matrix Spike Dup (B9B2104-MSD1)	Source: Y902264-01			Prepared: 02/21/2019 Analyzed: 02/21/2019						
Benzene	55.9	1.00	ug/L	50.0	ND	112	74-130	5.63	20	
Toluene	53.5	1.00	"	50.0	ND	107	73-131	5.90	20	
Ethylbenzene	54.5	1.00	"	50.0	0.070	109	76-132	4.89	20	
m,p-Xylene	107	2.00	"	100	0.220	107	69-139	4.70	20	
o-Xylene	53.0	1.00	"	50.0	ND	106	74-131	4.41	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.1	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	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: 89069141
Project: KMG - HSR Hall 12-31

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