

ATTACHMENT A
LABORATORY ANALYTICAL DATA

August 02, 2018

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Platteville 1-19

Project Number - 888838013

Attached are your analytical results for KMG - Platteville 1-19 received by Origins Laboratory, Inc. July 30, 2018. This project is associated with Origins project number Y807424-01.

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: 888838013
Project: KMG - Platteville 1-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01 - 073018	Y807424-01	Water	July 30, 2018 11:52	07/30/2018 16:28
BH02 - 073018	Y807424-02	Water	July 30, 2018 12:06	07/30/2018 16:28
BH03 - 073018	Y807424-03	Water	July 30, 2018 12:01	07/30/2018 16:28
BH04 - 073018	Y807424-04	Water	July 30, 2018 12:19	07/30/2018 16:28
BH05 - 073018	Y807424-05	Water	July 30, 2018 11:33	07/30/2018 16:28
BH06 - 073018	Y807424-06	Water	July 30, 2018 11:25	07/30/2018 16:28
BH07 - 073018	Y807424-07	Water	July 30, 2018 12:10	07/30/2018 16:28
BH08 - 073018	Y807424-08	Water	July 30, 2018 12:22	07/30/2018 16:28
BH09R - 073018	Y807424-09	Water	July 30, 2018 11:50	07/30/2018 16:28
BH10 - 073018	Y807424-10	Water	July 30, 2018 11:30	07/30/2018 16:28
BH11 - 073018	Y807424-11	Water	July 30, 2018 11:00	07/30/2018 16:28
BH12 - 073018	Y807424-12	Water	July 30, 2018 11:15	07/30/2018 16:28
BH13 - 073018	Y807424-13	Water	July 30, 2018 11:45	07/30/2018 16:28
BH14 - 073018	Y807424-14	Water	July 30, 2018 11:58	07/30/2018 16:28

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: 888838013

Project: KMG - Platteville 1-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH15 - 073018	Y807424-15	Water	July 30, 2018 12:15	07/30/2018 16:28
BH16 - 073018	Y807424-16	Water	July 30, 2018 11:40	07/30/2018 16:28

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: 888838013
Project: KMG - Platteville 1-19

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7807424

ORIGINS LABORATORY, INC

Client: ARC/Tasman Project Manager/Send Report To: Bob Cornez
Address: 6899 N. Pecos St. Email Address: Cornez@tasman-geo.com
Denver CO 80221 Project Name/Number: Platteville 1-19/888838013
Telephone Number: 970.481.6909 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 Summa #		
BH01-073018	7/30/18	1152	3	X				X			BTEX	1
BH02-073018		1206										2
BH03-073018		1201										3
BH04-073018		1219										4
BH05-073018		1133										5
BH06-073018		1125										6
BH07-073018		1210										7
BH08-073018		1222										8
BH09R-073018		1150										9
BH10-073018		1130										10
Relinquished By: <u>Bob Cornez</u>	Date: <u>7/30/18</u>	Time:	Time:	Received By: <u>[Signature]</u>				Time:			Date:	Turnaround Time:
Relinquished By:	Date:	Time:	Time:	Received By:				Time:			Date:	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"/>

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

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page 2 of 2

ORIGINS
LABORATORY, INC

Client: APC / Tasman Project Manager/Send Report To: _____
Address: _____ Email Address: _____
Telephone Number: _____ Project Name/Number: Platteville 1-19 / 888838013
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	Air Summng Container #		
BH11-073018	7/30/18	1100	3		X			X			BTEX	1
BH12-073018		1115										2
BH13-073018		1145										3
BH14-073018		1158										4
BH15-073018		1215										5
BH16-073018		1140										6
												7
												8
												9
												10

Relinquished By: <u>[Signature]</u>	Date: <u>7/30/18</u>	Time: _____	Received By: <u>[Signature]</u>	Date: <u>8/16/18</u>	Time: <u>16:28</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____

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

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 9807424

Client: Tasman

Client Project ID: KMG - Platteville 1-19

Checklist Completed by: JG

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

Date/time completed: 7/31/2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.8 °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⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JG

Date/Time Reviewed 8/1/18

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

BH01 - 073018

7/30/2018 11:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807424-01 (Water)

BTEX by EPA 8260C

Benzene	628	10.0	ug/L	10	B8H0107	JTD	08/01/2018	08/01/2018	
Toluene	ND	10.0	"	"	"	JTD	"	"	U
Ethylbenzene	78.0	10.0	"	"	"	JTD	"	"	
Xylenes, total	388	10.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	111 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	104 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	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: 888838013
Project: KMG - Platteville 1-19

BH02 - 073018

7/30/2018 12:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807424-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0107	JTD	08/01/2018	08/01/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	3.08	1.00	"	"	"	JTD	"	"	
Xylenes, total	1.44	1.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	111 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

BH03 - 073018

7/30/2018 12:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807424-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0107	JTD	08/01/2018	08/01/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	7.25	1.00	"	"	"	JTD	"	"	
Xylenes, total	4.14	1.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121	"	"	"
Surrogate: Toluene-d8	112 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

BH04 - 073018

7/30/2018 12:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807424-04 (Water)

BTEX by EPA 8260C

Benzene	86.5	10.0	ug/L	10	B8H0107	JTD	08/01/2018	08/01/2018	
Toluene	ND	10.0	"	"	"	JTD	"	"	U
Ethylbenzene	159	10.0	"	"	"	JTD	"	"	
Xylenes, total	1950	10.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	84-121	"	"	"
Surrogate: Toluene-d8	98.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	110 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

BH05 - 073018

7/30/2018 11:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807424-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0107	JTD	08/01/2018	08/01/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

BH06 - 073018

7/30/2018 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807424-06 (Water)

BTEX by EPA 8260C

Benzene	284	10.0	ug/L	10	B8H0107	JTD	08/01/2018	08/01/2018	
Toluene	ND	10.0	"	"	"	JTD	"	"	U
Ethylbenzene	79.3	10.0	"	"	"	JTD	"	"	
Xylenes, total	1100	10.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121	"	"	"
Surrogate: Toluene-d8	103 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	111 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

BH07 - 073018

7/30/2018 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807424-07 (Water)

BTEX by EPA 8260C

Benzene	580	4.00	ug/L	4	B8H0107	JTD	08/01/2018	08/02/2018	
Toluene	ND	1.00	"	1	"	JTD	"	08/01/2018	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.8 %	84-121			"	"	08/02/2018
Surrogate: Toluene-d8	102 %	85-115			"	"	08/01/2018
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: 888838013

Project: KMG - Platteville 1-19

BH08 - 073018

7/30/2018 12:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y807424-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0107	JTD	08/01/2018	08/01/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4

106 % 84-121

"

"

"

Surrogate: Toluene-d8

105 % 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: 888838013
Project: KMG - Platteville 1-19

BH09R - 073018

7/30/2018 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807424-09 (Water)

BTEX by EPA 8260C

Benzene	254	10.0	ug/L	10	B8H0107	JTD	08/01/2018	08/01/2018	
Toluene	ND	10.0	"	"	"	JTD	"	"	U
Ethylbenzene	102	10.0	"	"	"	JTD	"	"	
Xylenes, total	1290	10.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	99.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	112 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

BH10 - 073018

7/30/2018 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807424-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0107	JTD	08/01/2018	08/01/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	105 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

BH11 - 073018

7/30/2018 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807424-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0107	JTD	08/01/2018	08/01/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	111 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	112 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

BH12 - 073018

7/30/2018 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807424-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0107	JTD	08/01/2018	08/01/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	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: 888838013
Project: KMG - Platteville 1-19

BH13 - 073018

7/30/2018 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807424-13 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0107	JTD	08/01/2018	08/02/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

BH14 - 073018

7/30/2018 11:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807424-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0107	JTD	08/01/2018	08/02/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121	"	"	"
Surrogate: Toluene-d8	98.2 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

BH15 - 073018

7/30/2018 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807424-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0107	JTD	08/01/2018	08/02/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121	"	"	"
Surrogate: Toluene-d8	99.7 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	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: 888838013
Project: KMG - Platteville 1-19

BH16 - 073018

7/30/2018 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807424-16 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H0107	JTD	08/01/2018	08/02/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

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 B8H0107 - EPA 5030B (Water)										
Blank (B8H0107-BLK1)					Prepared: 08/01/2018 Analyzed: 08/01/2018					
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	63		"	62.5	101		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: 888838013
Project: KMG - Platteville 1-19

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 B8H0107 - EPA 5030B (Water)										
Blank (B8H0107-BLK2)					Prepared: 08/01/2018 Analyzed: 08/01/2018					
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	106		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	68		"	62.5	109		84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

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 B8H0107 - EPA 5030B (Water)

LCS (B8H0107-BS1)

Prepared: 08/01/2018 Analyzed: 08/01/2018

Benzene	55.5	1.00	ug/L	50.0	111	73.3-129
Toluene	56.5	1.00	"	50.0	113	76.2-123
Ethylbenzene	48.2	1.00	"	50.0	96.4	73.6-130
m,p-Xylene	97.3	2.00	"	100	97.3	76.1-126
o-Xylene	47.0	1.00	"	50.0	93.9	76.6-124
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5	113	84-121
Surrogate: Toluene-d8	65		"	62.5	104	85-115
Surrogate: 4-Bromofluorobenzene	70		"	62.5	112	84-114

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

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 B8H0107 - EPA 5030B (Water)										
LCS (B8H0107-BS2)					Prepared: 08/01/2018 Analyzed: 08/01/2018					
Benzene	48.9	1.00	ug/L	50.0		97.7	73.3-129			
Toluene	51.5	1.00	"	50.0		103	76.2-123			
Ethylbenzene	41.7	1.00	"	50.0		83.5	73.6-130			
m,p-Xylene	85.9	2.00	"	100		85.9	76.1-126			
o-Xylene	42.4	1.00	"	50.0		84.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5		112	84-121			
Surrogate: Toluene-d8	66		"	62.5		105	85-115			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	84-114			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

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 B8H0107 - EPA 5030B (Water)

Matrix Spike (B8H0107-MS1)		Source: Y807424-05			Prepared: 08/01/2018 Analyzed: 08/01/2018					
Benzene	46.3	1.00	ug/L	50.0	ND	92.6	74-130			
Toluene	48.3	1.00	"	50.0	ND	96.6	73-131			
Ethylbenzene	38.2	1.00	"	50.0	0.090	76.3	76-132			
m,p-Xylene	79.9	2.00	"	100	0.190	79.7	69-139			
o-Xylene	40.5	1.00	"	50.0	0.140	80.7	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.0	84-121			
Surrogate: Toluene-d8	66		"	62.5		106	85-115			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		114	84-114			

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6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

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 B8H0107 - EPA 5030B (Water)

Matrix Spike (B8H0107-MS2)		Source: Y807424-08			Prepared: 08/01/2018 Analyzed: 08/01/2018					
Benzene	48.1	1.00	ug/L	50.0	0.160	96.0	74-130			
Toluene	50.9	1.00	"	50.0	ND	102	73-131			
Ethylbenzene	42.2	1.00	"	50.0	0.210	83.9	76-132			
m,p-Xylene	87.1	2.00	"	100	ND	87.1	69-139			
o-Xylene	43.4	1.00	"	50.0	ND	86.7	74-131			
Surrogate: 1,2-Dichloroethane-d4	72		"	62.5		116	84-121			
Surrogate: Toluene-d8	64		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		113	84-114			

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6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

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 B8H0107 - EPA 5030B (Water)

Matrix Spike Dup (B8H0107-MSD1)		Source: Y807424-05			Prepared: 08/01/2018 Analyzed: 08/01/2018					
Benzene	49.5	1.00	ug/L	50.0	ND	99.1	74-130	6.76	20	
Toluene	51.6	1.00	"	50.0	ND	103	73-131	6.53	20	
Ethylbenzene	42.0	1.00	"	50.0	0.090	83.8	76-132	9.40	20	
m,p-Xylene	85.8	2.00	"	100	0.190	85.6	69-139	7.05	20	
o-Xylene	43.4	1.00	"	50.0	0.140	86.6	74-131	7.03	20	
Surrogate: 1,2-Dichloroethane-d4	71		"	62.5		113	84-121			
Surrogate: Toluene-d8	66		"	62.5		105	85-115			
Surrogate: 4-Bromofluorobenzene	72		"	62.5		114	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 888838013
Project: KMG - Platteville 1-19

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 B8H0107 - EPA 5030B (Water)

Matrix Spike Dup (B8H0107-MSD2)		Source: Y807424-08			Prepared: 08/01/2018 Analyzed: 08/01/2018					
Benzene	50.4	1.00	ug/L	50.0	0.160	100	74-130	4.53	20	
Toluene	52.9	1.00	"	50.0	ND	106	73-131	3.74	20	
Ethylbenzene	43.6	1.00	"	50.0	0.210	86.9	76-132	3.45	20	
m,p-Xylene	89.6	2.00	"	100	ND	89.6	69-139	2.87	20	
o-Xylene	44.6	1.00	"	50.0	ND	89.3	74-131	2.86	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		112	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 888838013

Project: KMG - Platteville 1-19

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 08, 2018

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - Platteville - 63N66W
19SWSW**

Project Number - 88838013

Attached are your analytical results for KMG - Platteville - 63N66W 19SWSW received by Origins Laboratory, Inc. October 02, 2018. This project is associated with Origins project number Y810048-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

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

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01 - 100218	Y810048-01	Water	October 2, 2018 13:40	10/02/2018 17:00
BH02 - 100218	Y810048-02	Water	October 2, 2018 12:29	10/02/2018 17:00
BH03 - 100218	Y810048-03	Water	October 2, 2018 12:19	10/02/2018 17:00
BH04 - 100218	Y810048-04	Water	October 2, 2018 13:16	10/02/2018 17:00
BH05 - 100218	Y810048-05	Water	October 2, 2018 11:54	10/02/2018 17:00
BH06 - 100218	Y810048-06	Water	October 2, 2018 13:39	10/02/2018 17:00
BH07 - 100218	Y810048-07	Water	October 2, 2018 13:27	10/02/2018 17:00
BH08 - 100218	Y810048-08	Water	October 2, 2018 12:39	10/02/2018 17:00
BH09R - 100218	Y810048-09	Water	October 2, 2018 13:29	10/02/2018 17:00
BH10 - 100218	Y810048-10	Water	October 2, 2018 12:18	10/02/2018 17:00
BH11 - 100218	Y810048-11	Water	October 2, 2018 11:56	10/02/2018 17:00
BH12 - 100218	Y810048-12	Water	October 2, 2018 12:07	10/02/2018 17:00
BH13 - 100218	Y810048-13	Water	October 2, 2018 12:38	10/02/2018 17:00
BH14 - 100218	Y810048-14	Water	October 2, 2018 12:05	10/02/2018 17:00

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88838013

Project: KMG - Platteville - 63N66W 19SWSW

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH15 - 100218	Y810048-15	Water	October 2, 2018 12:52	10/02/2018 17:00
BH16 - 100218	Y810048-16	Water	October 2, 2018 12:53	10/02/2018 17:00
BH17 - 100218	Y810048-17	Water	October 2, 2018 13:04	10/02/2018 17:00
BH18 - 100218	Y810048-18	Water	October 2, 2018 13:06	10/02/2018 17:00
BH19 - 100218	Y810048-19	Water	October 2, 2018 13:15	10/02/2018 17:00

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

1/810048
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page 1 of 2

ORIGINS
LABORATORY, INC

Client: APC/Tasman
Address: 6899 N. Pecos St.
Denver, CO 80221
Telephone Number: 701-471-0556

Project Manager/Send Report To: Bob Cornez
Email Address: rcornez@tasman-geo.com
Project Name/Number: Platteville 63N66W19SW/88838013
Samples Collected By: Brian B. Allison

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis/Method	Sample Instructions
BH01-100218	10/02/18	1340	3	Unpreserved HCl HNO ₃ Other	Groundwater Soil Air Summa Canister #	Other BTEX	1
BH02-100218		1329					2
BH03-100218		1319					3
BH04-100218		1316					4
BH05-100218		1154					5
BH06-100218		1339					6
BH07-100218		1327					7
BH08-100218		1339					8
BH09R-100218		1329					9
BH10-100218		1318					10
Relinquished By: <u>Ben Lehl</u>	Date: <u>10/2/18</u>	Time: <u>1700</u>		Received By:	Date: <u>10/2/18</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:		Received By:	Date: <u>10/2/18</u>	Time: <u>1700</u>	

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

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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page 2 of 2

1/810048

ORIGINS
LABORATORY, INC

Client: APC/Tasman Project Manager/Send Report To: Bob Cornez
Address: _____ Email Address: rcornez@tasman-geo.com
Project Name/Number: Platteville 63N66W 19SWSW/88838013
Telephone Number: _____ Samples Collected By: Brina G. Allison

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
BH11-100218	10/02/2018	1156	3		X			X			Other	1
BH12-100218		1207										2
BH13-100218		1238										3
BH14-100218		1205										4
BH15-100218		1252										5
BH16-100218		1253										6
BH17-100218		1304										7
BH18-100218		1306										8
BH19-100218		1315										9
												10
Relinquished By: <u>Ri</u>	Date: <u>10/02/2018</u>	Time: <u>1700</u>	Received By: _____	Date: _____	Time: _____	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard						
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: <u>10/2/18</u>	Time: <u>1700</u>							

Printed: 10/2/2018 1:10 PM

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4810048

Client: Tasman

Client Project ID: KMG - Platteville - 63N66W

Checklist Completed by: JG

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

Date/time completed: 10 / 3 / 2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.8 °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.

Reviewed by (Project Manager) JG

Date/Time Reviewed 10/4/18

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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH01 - 100218
10/2/2018 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-01 (Water)

BTEX by EPA 8260C

Benzene	586	50.0	ug/L	50	B8J0405	JTD	10/04/2018	10/04/2018	
Toluene	ND	50.0	"	"	"	JTD	"	"	U
Ethylbenzene	108	50.0	"	"	"	JTD	"	"	
Xylenes, total	428	50.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	84-121	"	"	"
Surrogate: Toluene-d8	96.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH02 - 100218

10/2/2018 12:29:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J0405	JTD	10/04/2018	10/04/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	2.95	1.00	"	"	"	JTD	"	"	
Xylenes, total	1.07	1.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %	84-121	"	"	"
Surrogate: Toluene-d8	105 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	111 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH03 - 100218

10/2/2018 12:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J0405	JTD	10/04/2018	10/04/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	6.27	1.00	"	"	"	JTD	"	"	
Xylenes, total	3.12	1.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	84-121	"	"	"
Surrogate: Toluene-d8	109 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	110 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH04 - 100218
10/2/2018 1:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-04 (Water)

BTEX by EPA 8260C

Benzene	90.2	4.00	ug/L	4	B8J0405	JTD	10/04/2018	10/04/2018	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	152	4.00	"	"	"	JTD	"	"	
Xylenes, total	1590	4.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121	"	"	"
Surrogate: Toluene-d8	98.6 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH05 - 100218

10/2/2018 11:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J0405	JTD	10/04/2018	10/04/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	84-121	"	"	"
Surrogate: Toluene-d8	95.1 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH06 - 100218
10/2/2018 1:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-06 (Water)

BTEX by EPA 8260C

Benzene	150	1.00	ug/L	1	B8J0405	KDK	10/04/2018	10/05/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	22.6	1.00	"	"	"	KDK	"	"	
Xylenes, total	300	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121	"	"	"
Surrogate: Toluene-d8	97.5 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH07 - 100218
10/2/2018 1:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-07 (Water)

BTEX by EPA 8260C

Benzene	292	50.0	ug/L	50	B8J0405	JTD	10/04/2018	10/04/2018	
Toluene	ND	50.0	"	"	"	JTD	"	"	U
Ethylbenzene	ND	50.0	"	"	"	JTD	"	"	U
Xylenes, total	ND	50.0	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	84-121			"	"	"
Surrogate: Toluene-d8	96.1 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH08 - 100218

10/2/2018 12:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J0405	JTD	10/04/2018	10/04/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	84-121	"	"	"
Surrogate: Toluene-d8	97.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH09R - 100218

10/2/2018 1:29:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-09 (Water)

BTEX by EPA 8260C

Benzene	112	4.00	ug/L	4	B8J0405	JTD	10/04/2018	10/04/2018	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	109	4.00	"	"	"	JTD	"	"	
Xylenes, total	1070	4.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121	"	"	"
Surrogate: Toluene-d8	98.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH10 - 100218
10/2/2018 12:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J0405	JTD	10/04/2018	10/04/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121	"	"	"
Surrogate: Toluene-d8	96.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH11 - 100218

10/2/2018 11:56:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J0405	JTD	10/04/2018	10/04/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	1.75	1.00	"	"	"	JTD	"	"	
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH12 - 100218
10/2/2018 12:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-12 (Water)

BTEX by EPA 8260C

Benzene	1.10	1.00	ug/L	1	B8J0405	JTD	10/04/2018	10/04/2018	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121			"	"	"
Surrogate: Toluene-d8	96.1 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH13 - 100218
10/2/2018 12:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-13 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J0405	JTD	10/04/2018	10/04/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121	"	"	"
Surrogate: Toluene-d8	96.4 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH14 - 100218
10/2/2018 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J0405	JTD	10/04/2018	10/04/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121	"	"	"
Surrogate: Toluene-d8	96.1 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH15 - 100218
10/2/2018 12:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J0405	JTD	10/04/2018	10/04/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121	"	"	"
Surrogate: Toluene-d8	95.6 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH16 - 100218
10/2/2018 12:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-16 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J0405	JTD	10/04/2018	10/04/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	84-121	"	"	"
Surrogate: Toluene-d8	94.5 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH17 - 100218
10/2/2018 1:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-17 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J0405	JTD	10/04/2018	10/04/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	84-121	"	"	"
Surrogate: Toluene-d8	96.5 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH18 - 100218
10/2/2018 1:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-18 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J0405	JTD	10/04/2018	10/05/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	84-121	"	"	"
Surrogate: Toluene-d8	95.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH19 - 100218
10/2/2018 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y810048-19 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8J0405	JTD	10/04/2018	10/05/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	84-121	"	"	"
Surrogate: Toluene-d8	94.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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 B8J0405 - EPA 5030B (Water)

Blank (B8J0405-BLK1)

Prepared: 10/04/2018 Analyzed: 10/04/2018

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	67		"	62.5	107		84-121			
Surrogate: Toluene-d8	60		"	62.5	95.6		85-115			
Surrogate: 4-Bromofluorobenzene	67		"	62.5	107		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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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 B8J0405 - EPA 5030B (Water)

Blank (B8J0405-BLK2)

Prepared: 10/04/2018 Analyzed: 10/04/2018

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	67		"	62.5	107		84-121			
Surrogate: Toluene-d8	60		"	62.5	95.5		85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5	104		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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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 B8J0405 - EPA 5030B (Water)										
LCS (B8J0405-BS1)					Prepared: 10/04/2018 Analyzed: 10/04/2018					
Benzene	58.5	1.00	ug/L	50.0		117	73.3-129			
Toluene	56.6	1.00	"	50.0		113	76.2-123			
Ethylbenzene	57.5	1.00	"	50.0		115	73.6-130			
m,p-Xylene	114	2.00	"	100		114	76.1-126			
o-Xylene	54.7	1.00	"	50.0		109	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.3	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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 B8J0405 - EPA 5030B (Water)

LCS (B8J0405-BS2)

Prepared: 10/04/2018 Analyzed: 10/04/2018

Benzene	52.3	1.00	ug/L	50.0		105	73.3-129			
Toluene	49.7	1.00	"	50.0		99.3	76.2-123			
Ethylbenzene	50.2	1.00	"	50.0		100	73.6-130			
m,p-Xylene	100	2.00	"	100		100	76.1-126			
o-Xylene	48.6	1.00	"	50.0		97.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		103	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.2	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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 B8J0405 - EPA 5030B (Water)

Matrix Spike (B8J0405-MS1)		Source: Y810060-01			Prepared: 10/04/2018 Analyzed: 10/04/2018					
Benzene	52.6	1.00	ug/L	50.0	ND	105	74-130			
Toluene	50.7	1.00	"	50.0	ND	101	73-131			
Ethylbenzene	50.4	1.00	"	50.0	ND	101	76-132			
m,p-Xylene	101	2.00	"	100	0.250	101	69-139			
o-Xylene	50.7	1.00	"	50.0	ND	101	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.0	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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 B8J0405 - EPA 5030B (Water)

Matrix Spike (B8J0405-MS2)		Source: Y810061-01			Prepared: 10/04/2018 Analyzed: 10/04/2018					
Benzene	49.3	1.00	ug/L	50.0	ND	98.6	74-130			
Toluene	49.5	1.00	"	50.0	1.80	95.5	73-131			
Ethylbenzene	47.7	1.00	"	50.0	ND	95.3	76-132			
m,p-Xylene	95.8	2.00	"	100	ND	95.8	69-139			
o-Xylene	46.7	1.00	"	50.0	ND	93.3	74-131			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.4	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SSW

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 B8J0405 - EPA 5030B (Water)

Matrix Spike Dup (B8J0405-MSD1)		Source: Y810060-01			Prepared: 10/04/2018 Analyzed: 10/04/2018					
Benzene	56.4	1.00	ug/L	50.0	ND	113	74-130	6.99	20	
Toluene	54.4	1.00	"	50.0	ND	109	73-131	7.17	20	
Ethylbenzene	54.8	1.00	"	50.0	ND	110	76-132	8.36	20	
m,p-Xylene	110	2.00	"	100	0.250	109	69-139	7.81	20	
o-Xylene	53.3	1.00	"	50.0	ND	107	74-131	5.04	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.6	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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 B8J0405 - EPA 5030B (Water)

Matrix Spike Dup (B8J0405-MSD2)		Source: Y810061-01			Prepared: 10/04/2018 Analyzed: 10/04/2018					
Benzene	51.1	1.00	ug/L	50.0	ND	102	74-130	3.55	20	
Toluene	50.7	1.00	"	50.0	1.80	97.8	73-131	2.33	20	
Ethylbenzene	49.5	1.00	"	50.0	ND	99.0	76-132	3.79	20	
m,p-Xylene	98.6	2.00	"	100	ND	98.6	69-139	2.84	20	
o-Xylene	48.5	1.00	"	50.0	ND	97.0	74-131	3.87	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.4	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88838013

Project: KMG - Platteville - 63N66W 19SWSW

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 17, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Platteville 1-19

Project Number - [none]

Attached are your analytical results for KMG - Platteville 1-19 received by Origins Laboratory, Inc. January 11, 2019. This project is associated with Origins project number Y901150-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

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

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01 - 011119	Y901150-01	Water	January 11, 2019 12:39	01/11/2019 16:15
BH02 - 011119	Y901150-02	Water	January 11, 2019 11:34	01/11/2019 16:15
BH03 - 011119	Y901150-03	Water	January 11, 2019 11:24	01/11/2019 16:15
BH05 - 011119	Y901150-04	Water	January 11, 2019 11:50	01/11/2019 16:15
BH07 - 011119	Y901150-05	Water	January 11, 2019 12:34	01/11/2019 16:15
BH08 - 011119	Y901150-06	Water	January 11, 2019 11:48	01/11/2019 16:15
BH10 - 011119	Y901150-07	Water	January 11, 2019 11:59	01/11/2019 16:15
BH11 - 011119	Y901150-08	Water	January 11, 2019 12:08	01/11/2019 16:15
BH12 - 011119	Y901150-09	Water	January 11, 2019 12:21	01/11/2019 16:15
BH13 - 011119	Y901150-10	Water	January 11, 2019 12:12	01/11/2019 16:15
BH14 - 011119	Y901150-11	Water	January 11, 2019 11:56	01/11/2019 16:15
BH15 - 011119	Y901150-12	Water	January 11, 2019 12:27	01/11/2019 16:15
BH16 - 011119	Y901150-13	Water	January 11, 2019 12:05	01/11/2019 16:15
BH17 - 011119	Y901150-14	Water	January 11, 2019 11:44	01/11/2019 16:15

Origins Laboratory, Inc.



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

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Platteville 1-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH18 - 011119	Y901150-15	Water	January 11, 2019 11:30	01/11/2019 16:15
BH19 - 011119	Y901150-16	Water	January 11, 2019 11:18	01/11/2019 16:15

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: [none]
Project: KMG - Platteville 1-19

www.originslaboratory.com

page 1 of 2

ORIGINS LABORATORY, INC

Project Manager/Send Report To: Bob Cornez

Email Address: rcornez@tasman-geo.com

Project Name/Number: Platteville 1-19 / 88838013

Samples Collected By: Alison Dahl, Brian Gabel

Client: APC / Tasman

Address: 6899 N Pecos St
Denver CO 80221

Telephone Number: 815-979-8348

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other		
BH01-011119	1/11/2019	1239	3	X				X				BTEX	1
BH02-011119		1134	1										2
BH03-011119		1124	1										3
BH05-011119		1150	1										4
BH07-011119		1234	1										5
BH08-011119		1148	1										6
BH10-011119		1159	1										7
BH11-011119		1208	1										8
BH12-011119		1221	1										9
BH13-011119		1212	1										10
Relinquished By: <i>W. Dahl</i>	Date: 1/11/2019	Time: 1330						Received By: <i>[Signature]</i>	Date: 1/11/19	Time: 1615	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:						Received By:	Date:	Time:			

Date Results Needed: 3.5

Comments:

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: [none]
Project: KMG - Platteville 1-19

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page 2 of 2

Y901150

ORIGINS
LABORATORY, INC

Client: APC / Tasman
Address: 6899 N Pecos St
Denver CO 80221
Telephone Number: 815-979-8348

Project Manager/Send Report To: Bob Cornez
Email Address: rcornez@tasman-geo.com
Project Name/Number: Platteville 1-19 / 88038013
Samples Collected By: Alison Dahl, Brian Gabel

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
BH14 - 011119	1/11/2019	1156	3	X				X			BTEX	1
BH15 - 011119		1227	1									2
BH16 - 011119		1205	1									3
BH17 - 011119		1144	1									4
BH18 - 011119		1130	1									5
BH19 - 011119		1118	1									6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Alison Dahl	1/11/2019	1615	[Signature]	1/11/19	1615	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"/>

Date Results Needed:

Comments:

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: [none]
Project: KMG - Platteville 1-19

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y901150

Client: Tasman

Client Project ID: KMG - Platteville 1-19

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 1/14/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 13.5 °C 1 °C 1 °C 1 °C

Thermometer ID: T003

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 1/15/19

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: [none]
Project: KMG - Platteville 1-19

BH01 - 011119
1/11/2019 12:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901150-01 (Water)

BTEX by EPA 8260C

Benzene	588	20.0	ug/L	20	B9A1405	JTD	01/14/2019	01/15/2019	
Toluene	ND	20.0	"	"	"	JTD	"	"	U
Ethylbenzene	98.6	20.0	"	"	"	JTD	"	"	
Xylenes, total	389	20.0	"	"	"	JTD	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH02 - 011119

1/11/2019 11:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901150-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A1405	JTD	01/14/2019	01/15/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.8 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH03 - 011119

1/11/2019 11:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901150-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A1405	JTD	01/14/2019	01/15/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	6.91	1.00	"	"	"	JTD	"	"	
Xylenes, total	1.67	1.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.7 %	84-121	"	"	"
Surrogate: Toluene-d8	103 %	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: [none]
Project: KMG - Platteville 1-19

BH05 - 011119

1/11/2019 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901150-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A1405	JTD	01/14/2019	01/15/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.3 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH07 - 011119
1/11/2019 12:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901150-05 (Water)

BTEX by EPA 8260C

Benzene	3.16	1.00	ug/L	1	B9A1405	JTD	01/14/2019	01/15/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.6 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH08 - 011119

1/11/2019 11:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901150-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A1405	JTD	01/14/2019	01/15/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	99.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH10 - 011119
1/11/2019 11:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901150-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A1405	JTD	01/14/2019	01/15/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.3 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	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: [none]
Project: KMG - Platteville 1-19

BH11 - 011119
1/11/2019 12:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901150-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A1405	JTD	01/14/2019	01/15/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	98.7 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.3 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH12 - 011119
1/11/2019 12:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901150-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A1405	JTD	01/14/2019	01/15/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.4 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH13 - 011119
1/11/2019 12:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901150-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A1405	JTD	01/14/2019	01/15/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	99.2 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH14 - 011119

1/11/2019 11:56:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901150-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A1405	JTD	01/14/2019	01/15/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH15 - 011119
1/11/2019 12:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901150-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A1405	JTD	01/14/2019	01/15/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH16 - 011119
1/11/2019 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901150-13 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A1405	JTD	01/14/2019	01/15/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	99.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.5 %	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: [none]
Project: KMG - Platteville 1-19

BH17 - 011119

1/11/2019 11:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901150-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A1405	JTD	01/14/2019	01/15/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	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: [none]
Project: KMG - Platteville 1-19

BH18 - 011119

1/11/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901150-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A1608	KDK	01/16/2019	01/16/2019	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	99.2 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.9 %	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: [none]
Project: KMG - Platteville 1-19

BH19 - 011119

1/11/2019 11:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y901150-16 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9A1608	KDK	01/16/2019	01/16/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.9 %	84-121	"	"	"
Surrogate: Toluene-d8	97.7 %	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: [none]
Project: KMG - Platteville 1-19

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 B9A1405 - EPA 5030B (Water)										
Blank (B9A1405-BLK1)					Prepared: 01/14/2019 Analyzed: 01/14/2019					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.2	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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 B9A1405 - EPA 5030B (Water)										
Blank (B9A1405-BLK2)					Prepared: 01/14/2019 Analyzed: 01/14/2019					
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		98.3	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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 B9A1405 - EPA 5030B (Water)										
LCS (B9A1405-BS1)					Prepared: 01/14/2019 Analyzed: 01/14/2019					
Benzene	45.5	1.00	ug/L	50.0		91.1	73.3-129			
Toluene	47.1	1.00	"	50.0		94.2	76.2-123			
Ethylbenzene	47.7	1.00	"	50.0		95.3	73.6-130			
m,p-Xylene	95.1	2.00	"	100		95.1	76.1-126			
o-Xylene	47.7	1.00	"	50.0		95.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.0	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	84-114			

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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 B9A1405 - EPA 5030B (Water)

LCS (B9A1405-BS2)

Prepared: 01/14/2019 Analyzed: 01/14/2019

Benzene	41.7	1.00	ug/L	50.0		83.4	73.3-129			
Toluene	42.3	1.00	"	50.0		84.6	76.2-123			
Ethylbenzene	42.8	1.00	"	50.0		85.6	73.6-130			
m,p-Xylene	85.3	2.00	"	100		85.3	76.1-126			
o-Xylene	43.3	1.00	"	50.0		86.6	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.8	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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 B9A1405 - EPA 5030B (Water)

Matrix Spike (B9A1405-MS1)		Source: Y901141-02			Prepared: 01/14/2019 Analyzed: 01/14/2019					
Benzene	44.4	1.00	ug/L	50.0	ND	88.8	74-130			
Toluene	43.9	1.00	"	50.0	ND	87.8	73-131			
Ethylbenzene	44.7	1.00	"	50.0	ND	89.3	76-132			
m,p-Xylene	89.6	2.00	"	100	ND	89.6	69-139			
o-Xylene	45.9	1.00	"	50.0	ND	91.8	74-131			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.5	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.5	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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 B9A1405 - EPA 5030B (Water)

Matrix Spike (B9A1405-MS2)		Source: Y901141-03			Prepared: 01/14/2019 Analyzed: 01/14/2019					
Benzene	39.9	1.00	ug/L	50.0	ND	79.9	74-130			
Toluene	39.7	1.00	"	50.0	ND	79.5	73-131			
Ethylbenzene	39.8	1.00	"	50.0	ND	79.5	76-132			
m,p-Xylene	80.1	2.00	"	100	ND	80.1	69-139			
o-Xylene	40.5	1.00	"	50.0	ND	81.1	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.5	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.0	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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 B9A1405 - EPA 5030B (Water)

Matrix Spike Dup (B9A1405-MSD1)		Source: Y901141-02			Prepared: 01/14/2019 Analyzed: 01/14/2019					
Benzene	42.3	1.00	ug/L	50.0	ND	84.5	74-130	4.98	20	
Toluene	43.2	1.00	"	50.0	ND	86.3	73-131	1.70	20	
Ethylbenzene	44.2	1.00	"	50.0	ND	88.5	76-132	0.922	20	
m,p-Xylene	88.0	2.00	"	100	ND	88.0	69-139	1.75	20	
o-Xylene	44.9	1.00	"	50.0	ND	89.8	74-131	2.11	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.3	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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 B9A1405 - EPA 5030B (Water)

Matrix Spike Dup (B9A1405-MSD2)		Source: Y901141-03			Prepared: 01/14/2019 Analyzed: 01/14/2019					
Benzene	42.9	1.00	ug/L	50.0	ND	85.7	74-130	7.08	20	
Toluene	42.8	1.00	"	50.0	ND	85.5	73-131	7.35	20	
Ethylbenzene	43.3	1.00	"	50.0	ND	86.7	76-132	8.57	20	
m,p-Xylene	86.1	2.00	"	100	ND	86.1	69-139	7.28	20	
o-Xylene	44.4	1.00	"	50.0	ND	88.9	74-131	9.18	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.1	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: [none]
Project: KMG - Platteville 1-19

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 B9A1608 - EPA 5030B (Water)										
Blank (B9A1608-BLK1)					Prepared: 01/16/2019 Analyzed: 01/16/2019					
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	62		"	62.5		98.9	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.5	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: [none]
Project: KMG - Platteville 1-19

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 B9A1608 - EPA 5030B (Water)

Blank (B9A1608-BLK2)

Prepared: 01/16/2019 Analyzed: 01/16/2019

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	62		"	62.5		99.6	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.9	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: [none]
Project: KMG - Platteville 1-19

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 B9A1608 - EPA 5030B (Water)

LCS (B9A1608-BS1)

Prepared: 01/16/2019 Analyzed: 01/16/2019

Benzene	59.8	1.00	ug/L	50.0	120	73.3-129
Toluene	56.5	1.00	"	50.0	113	76.2-123
Ethylbenzene	57.9	1.00	"	50.0	116	73.6-130
m,p-Xylene	115	2.00	"	100	115	76.1-126
o-Xylene	54.9	1.00	"	50.0	110	76.6-124
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	99.7	84-121
Surrogate: Toluene-d8	61		"	62.5	97.5	85-115
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101	84-114

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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 B9A1608 - EPA 5030B (Water)										
LCS (B9A1608-BS2)					Prepared: 01/16/2019 Analyzed: 01/16/2019					
Benzene	50.1	1.00	ug/L	50.0		100	73.3-129			
Toluene	49.0	1.00	"	50.0		98.1	76.2-123			
Ethylbenzene	48.7	1.00	"	50.0		97.4	73.6-130			
m,p-Xylene	97.6	2.00	"	100		97.6	76.1-126			
o-Xylene	47.9	1.00	"	50.0		95.8	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.7	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	84-114			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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 B9A1608 - EPA 5030B (Water)

Matrix Spike (B9A1608-MS1)		Source: Y901182-02			Prepared: 01/16/2019 Analyzed: 01/16/2019					
Benzene	58.4	1.00	ug/L	50.0	ND	117	74-130			
Toluene	55.5	1.00	"	50.0	ND	111	73-131			
Ethylbenzene	56.8	1.00	"	50.0	0.730	112	76-132			
m,p-Xylene	113	2.00	"	100	0.400	113	69-139			
o-Xylene	54.7	1.00	"	50.0	ND	109	74-131			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.7	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.0	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	84-114			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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 B9A1608 - EPA 5030B (Water)

Matrix Spike (B9A1608-MS2)		Source: Y901182-03			Prepared: 01/16/2019 Analyzed: 01/16/2019					
Benzene	61.0	1.00	ug/L	50.0	1.44	119	74-130			
Toluene	57.9	1.00	"	50.0	ND	116	73-131			
Ethylbenzene	64.1	1.00	"	50.0	15.6	97.1	76-132			
m,p-Xylene	118	2.00	"	100	2.56	115	69-139			
o-Xylene	56.4	1.00	"	50.0	ND	113	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.8	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.0	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: [none]
Project: KMG - Platteville 1-19

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 B9A1608 - EPA 5030B (Water)

Matrix Spike Dup (B9A1608-MSD1)		Source: Y901182-02			Prepared: 01/16/2019 Analyzed: 01/16/2019					
Benzene	59.1	1.00	ug/L	50.0	ND	118	74-130	1.23	20	
Toluene	55.7	1.00	"	50.0	ND	111	73-131	0.432	20	
Ethylbenzene	57.3	1.00	"	50.0	0.730	113	76-132	1.02	20	
m,p-Xylene	113	2.00	"	100	0.400	113	69-139	0.177	20	
o-Xylene	55.5	1.00	"	50.0	ND	111	74-131	1.52	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.0	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.5	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: [none]
Project: KMG - Platteville 1-19

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 B9A1608 - EPA 5030B (Water)										
Matrix Spike Dup (B9A1608-MSD2)		Source: Y901182-03			Prepared: 01/16/2019 Analyzed: 01/16/2019					
Benzene	59.8	1.00	ug/L	50.0	1.44	117	74-130	1.82	20	
Toluene	56.3	1.00	"	50.0	ND	113	73-131	2.77	20	
Ethylbenzene	63.0	1.00	"	50.0	15.6	94.9	76-132	1.76	20	
m,p-Xylene	115	2.00	"	100	2.56	112	69-139	2.66	20	
o-Xylene	56.3	1.00	"	50.0	ND	113	74-131	0.231	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.6	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.3	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	84-114			

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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Platteville 1-19

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.



April 08, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - Platteville - 63N66W
19SWSW**

Project Number - 88838013

Attached are your analytical results for KMG - Platteville - 63N66W 19SWSW received by Origins Laboratory, Inc. April 01, 2019. This project is associated with Origins project number Y904032-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

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

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01-040119	Y904032-01	Water	April 1, 2019 13:28	04/01/2019 17:00
BH02-040119	Y904032-02	Water	April 1, 2019 12:43	04/01/2019 17:00
BH03-040119	Y904032-03	Water	April 1, 2019 13:00	04/01/2019 17:00
BH05-040119	Y904032-04	Water	April 1, 2019 13:14	04/01/2019 17:00
BH07-040119	Y904032-05	Water	April 1, 2019 12:57	04/01/2019 17:00
BH08-040119	Y904032-06	Water	April 1, 2019 12:27	04/01/2019 17:00
BH09R-040119	Y904032-07	Water	April 1, 2019 13:24	04/01/2019 17:00
BH10-040119	Y904032-08	Water	April 1, 2019 12:18	04/01/2019 17:00
BH11-040119	Y904032-09	Water	April 1, 2019 12:09	04/01/2019 17:00
BH12-040119	Y904032-10	Water	April 1, 2019 12:01	04/01/2019 17:00
BH13-040119	Y904032-11	Water	April 1, 2019 12:40	04/01/2019 17:00
BH14-040119	Y904032-12	Water	April 1, 2019 12:25	04/01/2019 17:00
BH15-040119	Y904032-13	Water	April 1, 2019 13:14	04/01/2019 17:00
BH16-040119	Y904032-14	Water	April 1, 2019 13:15	04/01/2019 17:00

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88838013

Project: KMG - Platteville - 63N66W 19SWSW

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH17-040119	Y904032-15	Water	April 1, 2019 11:53	04/01/2019 17:00
BH18-040119	Y904032-16	Water	April 1, 2019 12:04	04/01/2019 17:00
BH19-040119	Y904032-17	Water	April 1, 2019 12:14	04/01/2019 17:00

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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page 1 of 2

9904032

ORIGINS
LABORATORY, INC

Client: APC / Tasman Project Manager/Send Report To: Bob Cornez
Address: 6899 N Pecos St Email Address: rcornez@tasman-geo.com
Denver CO 80221 Project Name/Number: Platteville/88838013
Telephone Number: 303-487-1228 Samples Collected By: Alison Dahl, Brian Gabel

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis/Method	Sample Instructions
BH01-040119	4/1/19	1328	3	X	Soil	BTEX	1
BH02-040119		1243	1		Soil		2
BH03-040119		1300	1		Soil		3
BH05-040119		1314	1		Soil		4
BH07-040119		1257	1		Soil		5
BH08-040119		1227	1		Soil		6
BH09R-040119		1324	1		Soil		7
BH10-040119		1218	1		Soil		8
BH11-040119		1209	1		Soil		9
BH12-040119		1201	1		Soil		10
Relinquished by: <i>Alison Dahl</i>	Date: 4/1/19	Time: 1430	Received by: <i>Bob Cornez</i>	Date: 04/01/19	Time: 1700	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard	
Relinquished by:	Date:	Time:	Received by:	Date:	Time:		

Comments: 4.3 Date Results Needed:

Origins Laboratory, Inc.

Jefe Pellegrini

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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211



Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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page 2 of 2

ORIGINS LABORATORY, INC
Y904032

Client: APC / Tasman
Address: 6899 N Pecos St
Denver CO 80221
Telephone Number: 303-487-1228

Project Manager/Send Report To: Bob Cornez
Email Address: rcornez@tasman-geo.com
Project Name/Number: Platteville 1-19/88838013
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 #	Other		
BH13-040119	4/1/19	1240	3	X				X				X	1
BH14-040119		1225	1										2
BH15-040119		1314											3
BH16-040119		1315											4
BH17-040119		1153											5
BH18-040119		1204											6
BH19-040119		1214											7
													8
													9
													10
Relinquished By: 	Date: 4/1/19	Time:	Time:	Received By: 	Date: 04/01/19	Time: 1700	Time:	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard					
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:						

Comments: 11.3 Date Results Needed:

Origins Laboratory, Inc.

Jefe Pellegrini

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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y904032

Client: Tasman

Client Project ID: KMG - Platteville

Checklist Completed by: JD

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

Date/time completed: 4/8/19 4/1/19

Airbill #: NA

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

(Describe)

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

Thermometer ID: TOUB

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

4-2-19
Date/Time Reviewed

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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH01-040119

4/1/2019 1:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904032-01 (Water)

BTEX by EPA 8260C

Benzene	267	4.00	ug/L	4	B9D0408	JTD	04/04/2019	04/05/2019	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	147	4.00	"	"	"	JTD	"	"	
Xylenes, total	844	4.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH02-040119

4/1/2019 12:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904032-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9D0408	JTD	04/04/2019	04/05/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	1.02	1.00	"	"	"	JTD	"	"	
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH03-040119

4/1/2019 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904032-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9D0408	JTD	04/04/2019	04/05/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	7.95	1.00	"	"	"	JTD	"	"	
Xylenes, total	3.61	1.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121	"	"	"
Surrogate: Toluene-d8	107 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH05-040119

4/1/2019 1:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904032-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9D0408	JTD	04/04/2019	04/05/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121	"	"	"
Surrogate: Toluene-d8	97.6 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH07-040119

4/1/2019 12:57:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904032-05 (Water)

BTEX by EPA 8260C

Benzene	14.9	4.00	ug/L	4	B9D0408	JTD	04/04/2019	04/05/2019	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	4.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	4.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"
Surrogate: Toluene-d8	98.1 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH08-040119

4/1/2019 12:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904032-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9D0408	JTD	04/04/2019	04/05/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121	"	"	"
Surrogate: Toluene-d8	99.2 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH09R-040119

4/1/2019 1:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904032-07 (Water)

BTEX by EPA 8260C

Benzene	68.8	4.00	ug/L	4	B9D0408	JTD	04/04/2019	04/05/2019	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	108	4.00	"	"	"	JTD	"	"	
Xylenes, total	1440	4.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH10-040119

4/1/2019 12:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904032-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9D0408	JTD	04/04/2019	04/05/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	99.4 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH11-040119

4/1/2019 12:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904032-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9D0408	JTD	04/04/2019	04/05/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH12-040119

4/1/2019 12:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904032-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9D0408	JTD	04/04/2019	04/05/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	98.0 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH13-040119

4/1/2019 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904032-11 (Water)

BTEX by EPA 8260C

Benzene	3.88	1.00	ug/L	1	B9D0408	JTD	04/04/2019	04/05/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH14-040119

4/1/2019 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904032-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9D0408	JTD	04/04/2019	04/05/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121	"	"	"
Surrogate: Toluene-d8	98.6 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH15-040119

4/1/2019 1:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904032-13 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9D0408	JTD	04/04/2019	04/05/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	98.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH16-040119

4/1/2019 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904032-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9D0408	JTD	04/04/2019	04/05/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121	"	"	"
Surrogate: Toluene-d8	98.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH17-040119

4/1/2019 11:53:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904032-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9D0408	JTD	04/04/2019	04/05/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121	"	"	"
Surrogate: Toluene-d8	98.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH18-040119

4/1/2019 12:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904032-16 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9D0408	JTD	04/04/2019	04/05/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121	"	"	"
Surrogate: Toluene-d8	97.4 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

BH19-040119

4/1/2019 12:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904032-17 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9D0408	JTD	04/04/2019	04/05/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121	"	"	"
Surrogate: Toluene-d8	97.1 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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 B9D0408 - EPA 5030B (Water)										
Blank (B9D0408-BLK1)					Prepared: 04/04/2019 Analyzed: 04/04/2019					
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	66		"	62.5		105	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.7	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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 B9D0408 - EPA 5030B (Water)

LCS (B9D0408-BS1)

Prepared: 04/04/2019 Analyzed: 04/04/2019

Benzene	53.0	1.00	ug/L	50.0	106	73.3-129
Toluene	50.7	1.00	"	50.0	101	76.2-123
Ethylbenzene	51.8	1.00	"	50.0	104	73.6-130
m,p-Xylene	103	2.00	"	100	103	76.1-126
o-Xylene	51.5	1.00	"	50.0	103	76.6-124
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	99.9	84-121
Surrogate: Toluene-d8	61		"	62.5	98.1	85-115
Surrogate: 4-Bromofluorobenzene	65		"	62.5	104	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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 B9D0408 - EPA 5030B (Water)

Matrix Spike (B9D0408-MS1)		Source: Y904032-04			Prepared: 04/04/2019 Analyzed: 04/04/2019					
Benzene	51.9	1.00	ug/L	50.0	ND	104	74-130			
Toluene	50.1	1.00	"	50.0	ND	100	73-131			
Ethylbenzene	51.0	1.00	"	50.0	ND	102	76-132			
m,p-Xylene	102	2.00	"	100	ND	102	69-139			
o-Xylene	51.3	1.00	"	50.0	ND	103	74-131			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.8	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.5	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	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: 88838013
Project: KMG - Platteville - 63N66W 19SWSW

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 B9D0408 - EPA 5030B (Water)

Matrix Spike Dup (B9D0408-MSD1)		Source: Y904032-04			Prepared: 04/04/2019 Analyzed: 04/04/2019					
Benzene	50.5	1.00	ug/L	50.0	ND	101	74-130	2.81	20	
Toluene	48.7	1.00	"	50.0	ND	97.4	73-131	2.79	20	
Ethylbenzene	49.6	1.00	"	50.0	ND	99.3	76-132	2.66	20	
m,p-Xylene	99.0	2.00	"	100	ND	99.0	69-139	2.94	20	
o-Xylene	50.4	1.00	"	50.0	ND	101	74-131	1.75	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.3	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	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: 88838013

Project: KMG - Platteville - 63N66W 19SWSW

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.



July 10, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - Platteville 1-19

Project Number - [none]

Attached are your analytical results for KMG - Platteville 1-19 received by Origins Laboratory, Inc. July 08, 2019. This project is associated with Origins project number Y907123-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

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

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01 - 070819	Y907123-01	Water	July 8, 2019 14:40	07/08/2019 16:45
BH02 - 070819	Y907123-02	Water	July 8, 2019 14:26	07/08/2019 16:45
BH03 - 070819	Y907123-03	Water	July 8, 2019 14:26	07/08/2019 16:45
BH05 - 070819	Y907123-04	Water	July 8, 2019 14:03	07/08/2019 16:45
BH07 - 070819	Y907123-05	Water	July 8, 2019 14:17	07/08/2019 16:45
BH08 - 070819	Y907123-06	Water	July 8, 2019 13:51	07/08/2019 16:45
BH09R - 070819	Y907123-07	Water	July 8, 2019 14:54	07/08/2019 16:45
BH10 - 070819	Y907123-08	Water	July 8, 2019 13:55	07/08/2019 16:45
BH11 - 070819	Y907123-09	Water	July 8, 2019 13:45	07/08/2019 16:45
BH12 - 070819	Y907123-10	Water	July 8, 2019 13:34	07/08/2019 16:45
BH13 - 070819	Y907123-11	Water	July 8, 2019 13:22	07/08/2019 16:45
BH14 - 070819	Y907123-12	Water	July 8, 2019 13:39	07/08/2019 16:45
BH15 - 070819	Y907123-13	Water	July 8, 2019 14:08	07/08/2019 16:45
BH16 - 070819	Y907123-14	Water	July 8, 2019 14:16	07/08/2019 16:45

Origins Laboratory, Inc.



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

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Platteville 1-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH17 - 070819	Y907123-15	Water	July 8, 2019 13:28	07/08/2019 16:45
BH18 - 070819	Y907123-16	Water	July 8, 2019 13:15	07/08/2019 16:45
BH19 - 070819	Y907123-17	Water	July 8, 2019 13:13	07/08/2019 16:45

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: [none]
Project: KMG - Platteville 1-19

www.originslaboratory.com





page 1 of 2

4907123

ORIGINS LABORATORY, INC

Client: APC / Tasman
Address: 6899 N Pecos St
Denver CO 80221
Telephone Number: 303-487-1228

Project Manager/Send Report To: Bob Cornez
Email Address: rcornez@tasman-geo.com
Project Name/Number: Platteville 1-19 88888013
Samples Collected By: Brian Castel, Megan Sandtner

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method				Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	BTEX				
B4101-070819	07/08/19	1410	3	X				X				X			1	Standard <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Same Day <input type="checkbox"/>
B4102-070819		1426	1												2	
B4103-070819		1426													3	
B4105-070819		1403													4	
B4107-070819		1417													5	
B4108-070819		1357													6	
B4109A-070819		1454													7	
B4110-070819		1255													8	
B4111-070819		1345													9	
B4112-070819		1334	1												10	
Relinquished By: 	Date: 07/08/19	Time: 1600	Time: 1600	Received By: 	Date: 07/08/19	Time: 1645	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard									
Relinquished By: 	Date: 07/08/19	Time: 1600	Time: 1600	Received By: 	Date: 07/08/19	Time: 1645	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard									

Orion Bioscience Standard

Comments:

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

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: [none]
Project: KMG - Platteville 1-19

www.originslaboratory.com

page 2 of 2

ORIGINS LABORATORY, INC

Client: APC / Tasman Project Manager/Send Report To: Bob Cornez

Address: 6899 N Pecos St Email Address: rcornez@tasman-geo.com

Denver CO 80221

Telephone Number: 303-487-1228

Project Name/Number: Platteville 1-19 / 88828013

Samples Collected By: Brian Gabel, Megan Sandtner

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
BH13-070819	07/08/19	1322	3	X				X			BTEX	1
BH14-070819	07/08/19	1339	1									2
BH15-070819	07/08/19	1408	1									3
BH16-070819	07/08/19	1416	1									4
BH17-070819	07/08/19	1328	1									5
BH18-070819	07/08/19	1315	1									6
BH19-070819	07/08/19	1313	1									7
												8
												9
												10

Relinquished By: [Signature] Date: 07/08/19 Time: 1600

Received By: [Signature] Date: 07/08/19 Time: 1645

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

Date Recult. Mndst

5.0

Comments:

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

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: [none]
Project: KMG - Platteville 1-19

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y907123

Client: Tasman

Client Project ID: Platteville 1-19

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 7 / 9 / 2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply):

Soil/Solid

☒ Water

Other:

Cooler Number/Temperature: 1 / 5.0 °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"/>			
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) OP

Date/Time Reviewed 7/10/19

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: [none]
Project: KMG - Platteville 1-19

BH01 - 070819

7/8/2019 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907123-01 (Water)

BTEX by EPA 8260D

Benzene	389	20.0	ug/L	20	B9G0905	KDK	07/09/2019	07/09/2019	
Toluene	ND	20.0	"	"	"	KDK	"	"	U
Ethylbenzene	37.2	20.0	"	"	"	KDK	"	"	
Xylenes, total	203	20.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH02 - 070819

7/8/2019 2:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907123-02 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9G0905	KDK	07/09/2019	07/09/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

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

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH03 - 070819

7/8/2019 2:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907123-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0905	KDK	07/09/2019	07/09/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.42	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130			"	"	"
Surrogate: Toluene-d8	110 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Platteville 1-19

BH05 - 070819

7/8/2019 2:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907123-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0905	KDK	07/09/2019	07/09/2019	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	102 %	70-130	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH07 - 070819

7/8/2019 2:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907123-05 (Water)

BTEX by EPA 8260D

Benzene	3950	50.0	ug/L	50	B9G0905	KDK	07/09/2019	07/10/2019	
Toluene	ND	1.00	"	1	"	KDK	"	07/09/2019	U
Ethylbenzene	5.05	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	109 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH08 - 070819

7/8/2019 1:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907123-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0905	KDK	07/09/2019	07/10/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	07/09/2019	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	109 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH09R - 070819

7/8/2019 2:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907123-07 (Water)

BTEX by EPA 8260D

Benzene	128	10.0	ug/L	10	B9G0905	KDK	07/09/2019	07/09/2019	
Toluene	ND	10.0	"	"	"	KDK	"	"	U
Ethylbenzene	118	10.0	"	"	"	KDK	"	"	
Xylenes, total	3310	10.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH10 - 070819

7/8/2019 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907123-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0905	KDK	07/09/2019	07/09/2019	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	102 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH11 - 070819

7/8/2019 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907123-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0905	KDK	07/09/2019	07/09/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.76	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"
Surrogate: Toluene-d8	108 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH12 - 070819

7/8/2019 1:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907123-10 (Water)

BTEX by EPA 8260D

Benzene	5.82	1.00	ug/L	1	B9G0905	KDK	07/09/2019	07/09/2019	
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 %	70-130			"	"	"
Surrogate: Toluene-d8	106 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH13 - 070819

7/8/2019 1:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907123-11 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0905	KDK	07/09/2019	07/10/2019	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	102 %	70-130	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH14 - 070819

7/8/2019 1:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907123-12 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0905	KDK	07/09/2019	07/10/2019	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	103 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Platteville 1-19

BH15 - 070819

7/8/2019 2:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907123-13 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0905	KDK	07/09/2019	07/10/2019	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	102 %	70-130			"	"	"
Surrogate: Toluene-d8	107 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH16 - 070819

7/8/2019 2:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907123-14 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0905	KDK	07/09/2019	07/10/2019	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	101 %	70-130			"	"	"
Surrogate: Toluene-d8	106 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH17 - 070819

7/8/2019 1:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907123-15 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0905	KDK	07/09/2019	07/10/2019	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	102 %	70-130			"	"	"
Surrogate: Toluene-d8	107 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

BH18 - 070819

7/8/2019 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907123-16 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0905	KDK	07/09/2019	07/10/2019	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	101 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Platteville 1-19

BH19 - 070819

7/8/2019 1:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907123-17 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G0905	KDK	07/09/2019	07/10/2019	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	102 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9G0905 - EPA 5030B (Water)

Blank (B9G0905-BLK1)

Prepared: 07/09/2019 Analyzed: 07/09/2019

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	64		"	62.5	102		70-130			
Surrogate: Toluene-d8	67		"	62.5	107		70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5	104		70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9G0905 - EPA 5030B (Water)

Blank (B9G0905-BLK2)

Prepared: 07/09/2019 Analyzed: 07/09/2019

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	64		"	62.5	102		70-130			
Surrogate: Toluene-d8	66		"	62.5	106		70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5	106		70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9G0905 - EPA 5030B (Water)

LCS (B9G0905-BS1)

Prepared: 07/09/2019 Analyzed: 07/09/2019

Benzene	55.3	1.00	ug/L	50.0	111	70-130
Toluene	55.8	1.00	"	50.0	112	70-130
Ethylbenzene	48.2	1.00	"	50.0	96.5	70-130
m,p-Xylene	95.0	2.00	"	100	95.0	70-130
o-Xylene	46.4	1.00	"	50.0	92.7	70-130
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5	97.4	70-130
Surrogate: Toluene-d8	66		"	62.5	106	70-130
Surrogate: 4-Bromofluorobenzene	67		"	62.5	107	70-130

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9G0905 - EPA 5030B (Water)										
LCS (B9G0905-BS2)					Prepared: 07/09/2019 Analyzed: 07/09/2019					
Benzene	58.5	1.00	ug/L	50.0		117	70-130			
Toluene	59.8	1.00	"	50.0		120	70-130			
Ethylbenzene	52.9	1.00	"	50.0		106	70-130			
m,p-Xylene	104	2.00	"	100		104	70-130			
o-Xylene	50.0	1.00	"	50.0		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9G0905 - EPA 5030B (Water)

Matrix Spike (B9G0905-MS1)		Source: Y907123-04			Prepared: 07/09/2019 Analyzed: 07/09/2019					
Benzene	60.2	1.00	ug/L	50.0	ND	120	70-130			
Toluene	60.6	1.00	"	50.0	ND	121	70-130			
Ethylbenzene	53.3	1.00	"	50.0	0.100	106	70-130			
m,p-Xylene	106	2.00	"	100	ND	106	70-130			
o-Xylene	50.6	1.00	"	50.0	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.7	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		106	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9G0905 - EPA 5030B (Water)

Matrix Spike (B9G0905-MS2)		Source: Y907123-03			Prepared: 07/09/2019 Analyzed: 07/09/2019					
Benzene	58.4	1.00	ug/L	50.0	ND	117	70-130			
Toluene	58.4	1.00	"	50.0	ND	117	70-130			
Ethylbenzene	54.3	1.00	"	50.0	1.42	106	70-130			
m,p-Xylene	104	2.00	"	100	0.310	103	70-130			
o-Xylene	50.6	1.00	"	50.0	0.420	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.4	70-130			
Surrogate: Toluene-d8	69		"	62.5		110	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9G0905 - EPA 5030B (Water)

Matrix Spike Dup (B9G0905-MSD1)		Source: Y907123-04			Prepared: 07/09/2019 Analyzed: 07/09/2019					
Benzene	57.6	1.00	ug/L	50.0	ND	115	70-130	4.42	20	
Toluene	57.5	1.00	"	50.0	ND	115	70-130	5.22	20	
Ethylbenzene	50.1	1.00	"	50.0	0.100	100	70-130	6.23	20	
m,p-Xylene	100	2.00	"	100	ND	100	70-130	5.95	20	
o-Xylene	48.6	1.00	"	50.0	ND	97.2	70-130	3.99	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		96.8	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Platteville 1-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9G0905 - EPA 5030B (Water)

Matrix Spike Dup (B9G0905-MSD2)		Source: Y907123-03			Prepared: 07/09/2019 Analyzed: 07/09/2019					
Benzene	57.8	1.00	ug/L	50.0	ND	116	70-130	1.10	20	
Toluene	58.6	1.00	"	50.0	ND	117	70-130	0.376	20	
Ethylbenzene	54.1	1.00	"	50.0	1.42	105	70-130	0.461	20	
m,p-Xylene	101	2.00	"	100	0.310	100	70-130	2.89	20	
o-Xylene	50.1	1.00	"	50.0	0.420	99.4	70-130	0.913	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.8	70-130			
Surrogate: Toluene-d8	70		"	62.5		112	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Platteville 1-19

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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