

November 08, 2018

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - CPC 42-10**Project Number - [none]**

Attached are your analytical results for KMG - CPC 42-10 received by Origins Laboratory, Inc. November 06, 2018. This project is associated with Origins project number Y811091-01.

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 - CPC 42-10

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01 - 110518	Y811091-01	Water	November 5, 2018 13:40	11/06/2018 17:00
BH02 - 110518	Y811091-02	Water	November 5, 2018 15:12	11/06/2018 17:00
BH03 - 110518	Y811091-03	Water	November 5, 2018 14:04	11/06/2018 17:00
BH04 - 110518	Y811091-04	Water	November 5, 2018 15:07	11/06/2018 17:00
BH05 - 110518	Y811091-05	Water	November 5, 2018 14:31	11/06/2018 17:00
BH06 - 110518	Y811091-06	Water	November 5, 2018 14:50	11/06/2018 17:00
BH07 - 110518	Y811091-07	Water	November 5, 2018 14:07	11/06/2018 17:00
BH08 - 110518	Y811091-08	Water	November 5, 2018 13:21	11/06/2018 17:00
BH09 - 110518	Y811091-09	Water	November 5, 2018 14:24	11/06/2018 17:00
BH10 - 110518	Y811091-10	Water	November 5, 2018 13:19	11/06/2018 17:00
BH11 - 110518	Y811091-11	Water	November 5, 2018 14:48	11/06/2018 17:00
BH12 - 110518	Y811091-12	Water	November 5, 2018 12:51	11/06/2018 17:00
BH13 - 110518	Y811091-13	Water	November 5, 2018 13:05	11/06/2018 17:00
BH14 - 110518	Y811091-14	Water	November 5, 2018 13:35	11/06/2018 17:00

Origins Laboratory, Inc.



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

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - CPC 42-10

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH15 - 110518	Y811091-15	Water	November 5, 2018 15:20	11/06/2018 17:00
BH16 - 110518	Y811091-16	Water	November 5, 2018 13:02	11/06/2018 17:00
BH17 - 110518	Y811091-17	Water	November 5, 2018 12:48	11/06/2018 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: [none]
Project: KMG - CPC 42-10

ORIGINS LABORATORY, INC

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page 1 of 2

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

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

Denver CO 80221 Project Name/Number: CPC 42-10 89366424

Telephone Number: 815-974-8348 Samples Collected By: Alison Dahl, Brian Gmel

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis/Method	Sample Instructions
BH01 - 110518	11/5/2018	1340	3	Unpreserved	Soil	BTEX	1
BH02 - 110518		1512		Other			2
BH03 - 110518		1404		Other			3
BH04 - 110518		1507		Other			4
BH05 - 110518		1431		Other			5
BH06 - 110518		1450		Other			6
BH07 - 110518		1407		Other			7
BH08 - 110518		1321		Other			8
BH09 - 110518		1424		Other			9
BH10 - 110518		1319		Other			10
Relinquished By: <u>Alison Dahl</u>	Date: <u>11/5/2018</u>	Time: <u>1700</u>	Received By: <u>[Signature]</u>	Date: <u>11/6/18</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 checked="" type="checkbox"/> Standard	

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: [none]
Project: KMG - CPC 42-10

ORIGINS
LABORATORY, INC

Client: APC / Tasman Project Manager/Send Report To: Bob Cornez
Address: 6899 Pecos St Email Address: rcornez@tasman-geo.com
Denver CO 80221 Project Name/Number: CPC 42-10 / 89366424
Telephone Number: 815-979-8348 Samples Collected By: Alison Dahl, Brinn Gabel

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page 2 of 2

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 - 110518	11/5/2018	1448	3	X				X			BTEX	1
BH12 - 110518		1251	3									2
BH13 - 110518		1305	3									3
BH14 - 110518		1335	3									4
BH15 - 110518		1520	1									5
BH16 - 110518		1302	3									6
BH17 - 110518		1248	3									7
												8
												9
												10

Relinquished By: W. Palle Date: 11/5/2018 Time: 1700
Relinquished By: W. Palle Date: 11/6/18 Time: 1700
Received By: W. Palle Date: 11/6/18 Time: 1700
Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☒ Standard

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: [none]
Project: KMG - CPC 42-10

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y811091

Client: Tasman

Client Project ID: KMG - CPC 42-10

Checklist Completed by: JG

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

Date/time completed: 11 / 7 / 2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.4 °C 1 / 4.4 °C 1 / 4.4 °C 1 / 4.4 °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) WP

Date/Time Reviewed 11/8/18

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH01 - 110518
11/5/2018 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811091-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	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	98.7 %	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 - CPC 42-10

BH02 - 110518
11/5/2018 3:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811091-02 (Water)

BTEX by EPA 8260C

Benzene	54.5	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121	"	"	"
Surrogate: Toluene-d8	99.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	96.6 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH03 - 110518
11/5/2018 2:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811091-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	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	99.6 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.8 %	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 - CPC 42-10

BH04 - 110518
11/5/2018 3:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811091-04 (Water)

BTEX by EPA 8260C

Benzene	49.9	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	84-121	"	"	"
Surrogate: Toluene-d8	98.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	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 - CPC 42-10

BH05 - 110518
11/5/2018 2:31:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811091-05 (Water)

BTEX by EPA 8260C

Benzene	3.42	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	84-121	"	"	"
Surrogate: Toluene-d8	99.5 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.4 %	84-114	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH06 - 110518
11/5/2018 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811091-06 (Water)

BTEX by EPA 8260C

Benzene	15.7	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.0 %	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 - CPC 42-10

BH07 - 110518
11/5/2018 2:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811091-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	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	99.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.9 %	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 - CPC 42-10

BH08 - 110518
11/5/2018 1:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811091-08 (Water)

BTEX by EPA 8260C

Benzene	3.10	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	84-121	"	"	"
Surrogate: Toluene-d8	99.0 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.3 %	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 - CPC 42-10

BH09 - 110518
11/5/2018 2:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811091-09 (Water)

BTEX by EPA 8260C

Benzene	18.1	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	84-121	"	"	"
Surrogate: Toluene-d8	98.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	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 - CPC 42-10

BH10 - 110518
11/5/2018 1:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811091-10 (Water)

BTEX by EPA 8260C

Benzene	27.8	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	
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	98.4 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.8 %	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 - CPC 42-10

BH11 - 110518
11/5/2018 2:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811091-11 (Water)

BTEX by EPA 8260C

Benzene	14.4	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	
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	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	96.3 %	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 - CPC 42-10

BH12 - 110518

11/5/2018 12:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811091-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	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	109 %	84-121	"	"	"
Surrogate: Toluene-d8	98.5 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	96.7 %	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 - CPC 42-10

BH13 - 110518
11/5/2018 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811091-13 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	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	99.4 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	96.9 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH14 - 110518
11/5/2018 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811091-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	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	109 %	84-121	"	"	"
Surrogate: Toluene-d8	98.4 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.1 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH15 - 110518
11/5/2018 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811091-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/08/2018	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	98.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.5 %	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 - CPC 42-10

BH16 - 110518
11/5/2018 1:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811091-16 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/08/2018	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	105 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.1 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH17 - 110518

11/5/2018 12:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y811091-17 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/08/2018	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	109 %	84-121	"	"	"
Surrogate: Toluene-d8	99.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.2 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

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 B8K0701 - EPA 5030B (Water)

Blank (B8K0701-BLK1)

Prepared: 11/07/2018 Analyzed: 11/07/2018

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	62		"	62.5	99.4		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	100		84-114			

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

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 B8K0701 - EPA 5030B (Water)

Blank (B8K0701-BLK2)

Prepared: 11/07/2018 Analyzed: 11/07/2018

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	78		"	62.5	125		84-121			
Surrogate: Toluene-d8	57		"	62.5	91.9		85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.0		84-114			

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

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 B8K0701 - EPA 5030B (Water)

LCS (B8K0701-BS1)

Prepared: 11/07/2018 Analyzed: 11/07/2018

Benzene	45.2	1.00	ug/L	50.0		90.5	73.3-129			
Toluene	50.5	1.00	"	50.0		101	76.2-123			
Ethylbenzene	52.6	1.00	"	50.0		105	73.6-130			
m,p-Xylene	108	2.00	"	100		108	76.1-126			
o-Xylene	50.6	1.00	"	50.0		101	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.8	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	84-114			

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

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 B8K0701 - EPA 5030B (Water)

LCS (B8K0701-BS2)

Prepared: 11/07/2018 Analyzed: 11/07/2018

Benzene	47.4	1.00	ug/L	50.0		94.8	73.3-129			
Toluene	51.3	1.00	"	50.0		103	76.2-123			
Ethylbenzene	53.4	1.00	"	50.0		107	73.6-130			
m,p-Xylene	110	2.00	"	100		110	76.1-126			
o-Xylene	51.3	1.00	"	50.0		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.2	84-121			
Surrogate: Toluene-d8	62		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	84-114			

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

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 B8K0701 - EPA 5030B (Water)

Matrix Spike (B8K0701-MS1)		Source: Y811082-01			Prepared: 11/07/2018 Analyzed: 11/07/2018					
Benzene	46.6	1.00	ug/L	50.0	ND	93.1	74-130			
Toluene	50.7	1.00	"	50.0	ND	101	73-131			
Ethylbenzene	53.4	1.00	"	50.0	0.100	107	76-132			
m,p-Xylene	110	2.00	"	100	0.180	110	69-139			
o-Xylene	51.5	1.00	"	50.0	ND	103	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.6	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	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 - CPC 42-10

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 B8K0701 - EPA 5030B (Water)

Matrix Spike (B8K0701-MS2)		Source: Y811082-03			Prepared: 11/07/2018 Analyzed: 11/07/2018					
Benzene	46.3	1.00	ug/L	50.0	ND	92.6	74-130			
Toluene	50.2	1.00	"	50.0	ND	100	73-131			
Ethylbenzene	52.3	1.00	"	50.0	0.100	104	76-132			
m,p-Xylene	108	2.00	"	100	0.210	108	69-139			
o-Xylene	50.6	1.00	"	50.0	ND	101	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.7	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.6	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

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 B8K0701 - EPA 5030B (Water)

Matrix Spike Dup (B8K0701-MSD1)		Source: Y811082-01			Prepared: 11/07/2018 Analyzed: 11/07/2018					
Benzene	47.5	1.00	ug/L	50.0	ND	95.1	74-130	2.06	20	
Toluene	51.1	1.00	"	50.0	ND	102	73-131	0.688	20	
Ethylbenzene	53.6	1.00	"	50.0	0.100	107	76-132	0.467	20	
m,p-Xylene	110	2.00	"	100	0.180	110	69-139	0.500	20	
o-Xylene	51.6	1.00	"	50.0	ND	103	74-131	0.291	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.1	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.2	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	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 - CPC 42-10

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 B8K0701 - EPA 5030B (Water)

Matrix Spike Dup (B8K0701-MSD2)		Source: Y811082-03			Prepared: 11/07/2018 Analyzed: 11/07/2018					
Benzene	46.7	1.00	ug/L	50.0	ND	93.4	74-130	0.817	20	
Toluene	50.5	1.00	"	50.0	ND	101	73-131	0.675	20	
Ethylbenzene	52.8	1.00	"	50.0	0.100	105	76-132	1.03	20	
m,p-Xylene	109	2.00	"	100	0.210	108	69-139	0.721	20	
o-Xylene	51.1	1.00	"	50.0	ND	102	74-131	1.04	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.7	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.9	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	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 - CPC 42-10

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



March 18, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - CPC 42-10

Project Number - [none]

Attached are your analytical results for KMG - CPC 42-10 received by Origins Laboratory, Inc. March 11, 2019. This project is associated with Origins project number Y903139-01.

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 - CPC 42-10

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01 - 031119	Y903139-01	Water	March 11, 2019 11:28	03/11/2019 17:00
BH02 - 031119	Y903139-02	Water	March 11, 2019 13:11	03/11/2019 17:00
BH03 - 031119	Y903139-03	Water	March 11, 2019 12:50	03/11/2019 17:00
BH04 - 031119	Y903139-04	Water	March 11, 2019 13:47	03/11/2019 17:00
BH05 - 031119	Y903139-05	Water	March 11, 2019 13:25	03/11/2019 17:00
BH06 - 031119	Y903139-06	Water	March 11, 2019 13:32	03/11/2019 17:00
BH07 - 031119	Y903139-07	Water	March 11, 2019 12:29	03/11/2019 17:00
BH08 - 031119	Y903139-08	Water	March 11, 2019 12:05	03/11/2019 17:00
BH09 - 031119	Y903139-09	Water	March 11, 2019 12:30	03/11/2019 17:00
BH10 - 031119	Y903139-10	Water	March 11, 2019 13:40	03/11/2019 17:00
BH11 - 031119	Y903139-11	Water	March 11, 2019 13:15	03/11/2019 17:00
BH12 - 031119	Y903139-12	Water	March 11, 2019 11:40	03/11/2019 17:00
BH13 - 031119	Y903139-13	Water	March 11, 2019 11:51	03/11/2019 17:00
BH14 - 031119	Y903139-14	Water	March 11, 2019 12:06	03/11/2019 17:00

Origins Laboratory, Inc.



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

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - CPC 42-10

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH15 - 031119	Y903139-15	Water	March 11, 2019 11:56	03/11/2019 17:00
BH16 - 031119	Y903139-16	Water	March 11, 2019 11:38	03/11/2019 17:00
BH17 - 031119	Y903139-17	Water	March 11, 2019 11:28	03/11/2019 17:00
BH18 - 031119	Y903139-18	Water	March 11, 2019 12:45	03/11/2019 17:00
BH19 - 031119	Y903139-19	Water	March 11, 2019 14:00	03/11/2019 17:00

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

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page 1 of 2

ORIGINS LABORATORY, INC

903739

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: CPC 42-10/89366424
Telephone Number: 303-487-1228 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 Canister #		
BH01-031119	3/11/19	1128	3		X			X			BTEX	1
BH02-031119		1311										2
BH03-031119		1250										3
BH04-031119		1347										4
BH05-031119		1325										5
BH06-031119		1332										6
BH07-031119		1229										7
BH08-031119		1205										8
BH09-031119		1230		X								9
BH10-031119		1340		X								10
Relinquished By: [Signature]	Date: 3/11/19	Time: 1445		Received By: [Signature]	Date: 3/11/19	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: [Signature]	Date: 3/11/19	Time: 1445		Received By: [Signature]	Date: 3/11/19	Time: 1700						

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 - CPC 42-10

ORIGINS LABORATORY, INC

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page 2 of 2

Y903139

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: CPC 42-10 / 89366424
Samples Collected By: Alison Dahl, Brian Gabel

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis/Method	Sample Instructions
BH11-031119	3/11/19	13:55	3	Unpreserved HCl HNO ₃ Other	Groundwater Soil Air Summng #	BTEX	1
BH12-031119	3/11/19	11:40	1				2
BH13-031119	3/11/19	11:51	1				3
BH14-031119	3/11/19	13:06	1				4
BH15-031119	3/11/19	11:56	2				5
BH16-031119	3/11/19	11:38	3				6
BH17-031119	3/11/19	11:28	1				7
BH18-031119	3/11/19	12:45	1				8
BH19-031119	3/11/19	14:00	1				9
							10
Relinquished By: <i>Alison Dahl</i>	Date: 3/11/19	Time: 14:45	Received By: <i>[Signature]</i>	Date: 3/11/19	Time: 17:00	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:

Paula Bassett, M.D., J.D.

26

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 - CPC 42-10

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y903139

Client: Tasman

Client Project ID: KMG - CPC 42-10

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 3 / 12 / 2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.6 °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 3/13/19

Origins Laboratory, Inc.

Jefe Pellegrini

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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH01 - 031119

3/11/2019 11:28:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C1205	JTD	03/12/2019	03/12/2019	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	107 %	84-121	"	"	"
Surrogate: Toluene-d8	105 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.4 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH02 - 031119

3/11/2019 1:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-02 (Water)

BTEX by EPA 8260C

Benzene	87.9	1.00	ug/L	1	B9C1205	JTD	03/12/2019	03/12/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	84-121			"	"	"
Surrogate: Toluene-d8	101 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	93.3 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH03 - 031119

3/11/2019 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C1205	JTD	03/12/2019	03/12/2019	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	112 %	84-121	"	"	"
Surrogate: Toluene-d8	99.4 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	95.0 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH04 - 031119

3/11/2019 1:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-04 (Water)

BTEX by EPA 8260C

Benzene	62.5	1.00	ug/L	1	B9C1205	JTD	03/12/2019	03/12/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	84-121			"	"	"
Surrogate: Toluene-d8	97.9 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	95.0 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH05 - 031119

3/11/2019 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-05 (Water)

BTEX by EPA 8260C

Benzene	1.36	1.00	ug/L	1	B9C1205	JTD	03/12/2019	03/12/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	84-121			"	"	"
Surrogate: Toluene-d8	99.7 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	94.9 %	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 - CPC 42-10

BH06 - 031119

3/11/2019 1:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-06 (Water)

BTEX by EPA 8260C

Benzene	30.3	1.00	ug/L	1	B9C1205	JTD	03/12/2019	03/12/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	84-121			"	"	"
Surrogate: Toluene-d8	99.8 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	96.1 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH07 - 031119

3/11/2019 12:29:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C1205	JTD	03/12/2019	03/12/2019	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	114 %	84-121	"	"	"
Surrogate: Toluene-d8	98.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	94.8 %	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 - CPC 42-10

BH08 - 031119

3/11/2019 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-08 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B9C1205	JTD	03/12/2019	03/12/2019	U
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	4.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	4.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	84-121	"	"	"
Surrogate: Toluene-d8	98.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	95.1 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH09 - 031119

3/11/2019 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-09 (Water)

BTEX by EPA 8260C

Benzene	15.8	1.00	ug/L	1	B9C1205	JTD	03/12/2019	03/12/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	84-121			"	"	"
Surrogate: Toluene-d8	98.1 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	94.3 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH10 - 031119

3/11/2019 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-10 (Water)

BTEX by EPA 8260C

Benzene	21.0	1.00	ug/L	1	B9C1205	JTD	03/12/2019	03/12/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	84-121			"	"	"
Surrogate: Toluene-d8	98.5 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	94.3 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH11 - 031119
3/11/2019 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-11 (Water)

BTEX by EPA 8260C

Benzene	8.87	1.00	ug/L	1	B9C1205	JTD	03/12/2019	03/12/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	84-121			"	"	"
Surrogate: Toluene-d8	98.8 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	94.0 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH12 - 031119

3/11/2019 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C1205	JTD	03/12/2019	03/12/2019	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	114 %	84-121	"	"	"
Surrogate: Toluene-d8	99.0 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	93.9 %	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 - CPC 42-10

BH13 - 031119

3/11/2019 11:51:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-13 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C1205	JTD	03/12/2019	03/12/2019	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	114 %	84-121	"	"	"
Surrogate: Toluene-d8	99.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	93.2 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH14 - 031119

3/11/2019 12:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C1205	JTD	03/12/2019	03/12/2019	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	116 %	84-121	"	"	"
Surrogate: Toluene-d8	98.7 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	94.7 %	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 - CPC 42-10

BH15 - 031119

3/11/2019 11:56:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C1205	JTD	03/12/2019	03/12/2019	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	115 %	84-121	"	"	"
Surrogate: Toluene-d8	99.0 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	94.1 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH16 - 031119

3/11/2019 11:38:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-16 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C1205	JTD	03/12/2019	03/12/2019	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	113 %	84-121	"	"	"
Surrogate: Toluene-d8	98.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	94.0 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

BH17 - 031119

3/11/2019 11:28:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-17 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C1205	JTD	03/12/2019	03/12/2019	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	113 %	84-121	"	"	"
Surrogate: Toluene-d8	98.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	93.5 %	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 - CPC 42-10

BH18 - 031119

3/11/2019 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-18 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C1205	JTD	03/12/2019	03/12/2019	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	113 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	93.5 %	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 - CPC 42-10

BH19 - 031119
3/11/2019 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903139-19 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B9C1205	JTD	03/12/2019	03/12/2019	U
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	4.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	4.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	84-121	"	"	"
Surrogate: Toluene-d8	98.5 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	94.6 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

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 B9C1205 - EPA 5030B (Water)										
Blank (B9C1205-BLK1)					Prepared: 03/12/2019 Analyzed: 03/12/2019					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		109	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.9	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.9	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 - CPC 42-10

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 B9C1205 - EPA 5030B (Water)										
LCS (B9C1205-BS1)					Prepared: 03/12/2019 Analyzed: 03/12/2019					
Benzene	49.6	1.00	ug/L	50.0		99.1	73.3-129			
Toluene	45.7	1.00	"	50.0		91.5	76.2-123			
Ethylbenzene	46.8	1.00	"	50.0		93.7	73.6-130			
m,p-Xylene	94.1	2.00	"	100		94.1	76.1-126			
o-Xylene	48.3	1.00	"	50.0		96.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.1	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.0	84-114			

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

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 B9C1205 - EPA 5030B (Water)

Matrix Spike (B9C1205-MS1)		Source: Y903139-01			Prepared: 03/12/2019 Analyzed: 03/12/2019					
Benzene	55.2	1.00	ug/L	50.0	0.230	110	74-130			
Toluene	52.5	1.00	"	50.0	ND	105	73-131			
Ethylbenzene	53.5	1.00	"	50.0	ND	107	76-132			
m,p-Xylene	107	2.00	"	100	ND	107	69-139			
o-Xylene	53.3	1.00	"	50.0	ND	107	74-131			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.9	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.8	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 - CPC 42-10

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 B9C1205 - EPA 5030B (Water)

Matrix Spike Dup (B9C1205-MSD1)		Source: Y903139-01			Prepared: 03/12/2019 Analyzed: 03/12/2019					
Benzene	55.7	1.00	ug/L	50.0	0.230	111	74-130	0.866	20	
Toluene	53.2	1.00	"	50.0	ND	106	73-131	1.46	20	
Ethylbenzene	54.2	1.00	"	50.0	ND	108	76-132	1.21	20	
m,p-Xylene	109	2.00	"	100	ND	109	69-139	2.26	20	
o-Xylene	54.2	1.00	"	50.0	ND	108	74-131	1.71	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.9	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.6	84-114			

Origins Laboratory, Inc.



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

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - CPC 42-10

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



May 08, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - CPC 42-10

Project Number - [none]

Attached are your analytical results for KMG - CPC 42-10 received by Origins Laboratory, Inc. May 06, 2019. This project is associated with Origins project number Y905079-01.

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 - CPC 42-10

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH02 - 050619	Y905079-01	Water	May 6, 2019 13:45	05/06/2019 16:15
BH03 - 050619	Y905079-02	Water	May 6, 2019 13:13	05/06/2019 16:15
BH04 - 050619	Y905079-03	Water	May 6, 2019 14:00	05/06/2019 16:15
BH05 - 050619	Y905079-04	Water	May 6, 2019 13:45	05/06/2019 16:15
BH06 - 050619	Y905079-05	Water	May 6, 2019 12:45	05/06/2019 16:15
BH07 - 050619	Y905079-06	Water	May 6, 2019 12:35	05/06/2019 16:15
BH08 - 050619	Y905079-07	Water	May 6, 2019 12:49	05/06/2019 16:15
BH09 - 050619	Y905079-08	Water	May 6, 2019 13:28	05/06/2019 16:15
BH10 - 050619	Y905079-09	Water	May 6, 2019 13:20	05/06/2019 16:15
BH11 - 050619	Y905079-10	Water	May 6, 2019 13:05	05/06/2019 16:15
BH12 - 050619	Y905079-11	Water	May 6, 2019 11:50	05/06/2019 16:15
BH13 - 050619	Y905079-12	Water	May 6, 2019 12:01	05/06/2019 16:15
BH15 - 050619	Y905079-13	Water	May 6, 2019 12:30	05/06/2019 16:15
BH16 - 050619	Y905079-14	Water	May 6, 2019 12:00	05/06/2019 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 - CPC 42-10

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH17 - 050619	Y905079-15	Water	May 6, 2019 11:50	05/06/2019 16:15
BH18 - 050619	Y905079-16	Water	May 6, 2019 12:18	05/06/2019 16:15
BH19 - 050619	Y905079-17	Water	May 6, 2019 12:12	05/06/2019 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 - CPC 42-10

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page 1 of 2

1905079

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: CPC 42-10 / 89366424
Samples Collected by: Allison Datta Brian Gabel

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis/Method	Sample Instructions
B402-050619	5/6/2019	1345	3	X	Other	BTEX	1
B403-050619		1313					2
B404-050619		1400					3
B405-050619		1345					4
B406-050619		1245					5
B407-050619		1235					6
B408-050619		1249					7
B409-050619		1328					8
B410-050619		1320					9
B411-050619		1305					10
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:	
	5/6/19	1530		05/06/19	1615	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	48 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>	

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 - CPC 42-10

ORIGINS LABORATORY, INC

www.originslaboratory.com

page 2 of 2

1905079

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: CPC 42-10/89366424

Telephone Number: 303-487-1228 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 Canister #		
BH12 - 050619	5/6/19	1150	3	X				X			BTEX	1
BH13 - 050619		1201	3									2
BH15 - 050619		1230	2									3
BH16 - 050619		1200	3									4
BH17 - 050619		1150	1									5
BH18 - 050619		1218	1									6
BH19 - 050619		1212	1									7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<i>[Signature]</i>	5/6/19	1530	<i>[Signature]</i>	05/06/19	1615	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	48 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

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 - CPC 42-10

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y905079

Client: Tasman

Client Project ID: CPC 42-10

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 5 / 7 / 2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.1 °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) [Signature]

Date/Time/Reviewed 5/8/19

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 - CPC 42-10

BH02 - 050619

5/6/2019 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905079-01 (Water)

BTEX by EPA 8260D

Benzene	41.9	1.00	ug/L	1	B9E0710	KDK	05/07/2019	05/07/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	110 %	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 - CPC 42-10

BH03 - 050619

5/6/2019 1:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905079-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0710	KDK	05/07/2019	05/07/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.09	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	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 - CPC 42-10

BH04 - 050619

5/6/2019 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905079-03 (Water)

BTEX by EPA 8260D

Benzene	77.5	1.00	ug/L	1	B9E0710	KDK	05/07/2019	05/07/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
Surrogate: Toluene-d8	107 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	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 - CPC 42-10

BH05 - 050619

5/6/2019 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905079-04 (Water)

BTEX by EPA 8260D

Benzene	5.02	1.00	ug/L	1	B9E0710	KDK	05/07/2019	05/07/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	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 - CPC 42-10

BH06 - 050619
5/6/2019 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905079-05 (Water)

BTEX by EPA 8260D

Benzene	1.65	1.00	ug/L	1	B9E0710	KDK	05/07/2019	05/07/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"
Surrogate: Toluene-d8	106 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.9 %	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 - CPC 42-10

BH07 - 050619
5/6/2019 12:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905079-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0710	KDK	05/07/2019	05/07/2019	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	108 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	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 - CPC 42-10

BH08 - 050619
5/6/2019 12:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905079-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0710	KDK	05/07/2019	05/07/2019	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 %	70-130	"	"	"
Surrogate: Toluene-d8	107 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	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 - CPC 42-10

BH09 - 050619

5/6/2019 1:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905079-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0710	KDK	05/07/2019	05/07/2019	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	109 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	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 - CPC 42-10

BH10 - 050619

5/6/2019 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905079-09 (Water)

BTEX by EPA 8260D

Benzene	8.95	1.00	ug/L	1	B9E0710	KDK	05/07/2019	05/07/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"
Surrogate: Toluene-d8	108 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	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 - CPC 42-10

BH11 - 050619

5/6/2019 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905079-10 (Water)

BTEX by EPA 8260D

Benzene	6.32	1.00	ug/L	1	B9E0710	KDK	05/07/2019	05/07/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	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 - CPC 42-10

BH12 - 050619
5/6/2019 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905079-11 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0709	JTD	05/07/2019	05/08/2019	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	81.5 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	84.7 %	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 - CPC 42-10

BH13 - 050619
5/6/2019 12:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905079-12 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0709	JTD	05/07/2019	05/08/2019	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	81.3 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	84.4 %	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 - CPC 42-10

BH15 - 050619
5/6/2019 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905079-13 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0709	JTD	05/07/2019	05/08/2019	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	81.5 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	83.2 %	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 - CPC 42-10

BH16 - 050619
5/6/2019 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905079-14 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0709	JTD	05/07/2019	05/08/2019	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	80.3 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	83.1 %	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 - CPC 42-10

BH17 - 050619
5/6/2019 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905079-15 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0709	JTD	05/07/2019	05/08/2019	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	80.3 %	70-130	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	83.4 %	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 - CPC 42-10

BH18 - 050619
5/6/2019 12:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905079-16 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0709	JTD	05/07/2019	05/08/2019	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	80.4 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	83.2 %	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 - CPC 42-10

BH19 - 050619
5/6/2019 12:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905079-17 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E0709	JTD	05/07/2019	05/08/2019	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	79.9 %	70-130	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	83.0 %	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 - CPC 42-10

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 B9E0709 - EPA 5030B (Water)

Blank (B9E0709-BLK1)

Prepared: 05/07/2019 Analyzed: 05/07/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	48		"	62.5	77.2	70-130				
Surrogate: Toluene-d8	67		"	62.5	107	70-130				
Surrogate: 4-Bromofluorobenzene	49		"	62.5	78.7	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 - CPC 42-10

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 B9E0709 - EPA 5030B (Water)

LCS (B9E0709-BS1)

Prepared: 05/07/2019 Analyzed: 05/07/2019

Benzene	44.1	1.00	ug/L	50.0		88.3	70-130			
Toluene	50.0	1.00	"	50.0		100	70-130			
Ethylbenzene	47.5	1.00	"	50.0		95.0	70-130			
m,p-Xylene	94.9	2.00	"	100		94.9	70-130			
o-Xylene	47.9	1.00	"	50.0		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	45		"	62.5		72.6	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	51		"	62.5		80.9	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 - CPC 42-10

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 B9E0709 - EPA 5030B (Water)

Matrix Spike (B9E0709-MS1)		Source: Y905077-09			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Benzene	43.5	1.00	ug/L	50.0	ND	87.0	70-130			
Toluene	49.7	1.00	"	50.0	ND	99.4	70-130			
Ethylbenzene	47.0	1.00	"	50.0	ND	94.1	70-130			
m,p-Xylene	94.0	2.00	"	100	ND	94.0	70-130			
o-Xylene	47.6	1.00	"	50.0	ND	95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	45		"	62.5		72.4	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	50		"	62.5		80.5	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 - CPC 42-10

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 B9E0709 - EPA 5030B (Water)

Matrix Spike Dup (B9E0709-MSD1)		Source: Y905077-09			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Benzene	44.9	1.00	ug/L	50.0	ND	89.9	70-130	3.28	20	
Toluene	51.1	1.00	"	50.0	ND	102	70-130	2.70	20	
Ethylbenzene	48.3	1.00	"	50.0	ND	96.5	70-130	2.56	20	
m,p-Xylene	97.7	2.00	"	100	ND	97.7	70-130	3.81	20	
o-Xylene	49.8	1.00	"	50.0	ND	99.6	70-130	4.50	20	
Surrogate: 1,2-Dichloroethane-d4	46		"	62.5		73.6	70-130			
Surrogate: Toluene-d8	68		"	62.5		108	70-130			
Surrogate: 4-Bromofluorobenzene	50		"	62.5		80.1	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 - CPC 42-10

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 B9E0710 - EPA 5030B (Water)

Blank (B9E0710-BLK1)

Prepared: 05/07/2019 Analyzed: 05/07/2019

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	70-130				
Surrogate: Toluene-d8	69		"	62.5	110	70-130				
Surrogate: 4-Bromofluorobenzene	64		"	62.5	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 - CPC 42-10

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 B9E0710 - EPA 5030B (Water)

LCS (B9E0710-BS1)

Prepared: 05/07/2019 Analyzed: 05/07/2019

Benzene	51.3	1.00	ug/L	50.0		103	70-130			
Toluene	56.5	1.00	"	50.0		113	70-130			
Ethylbenzene	46.2	1.00	"	50.0		92.5	70-130			
m,p-Xylene	93.6	2.00	"	100		93.6	70-130			
o-Xylene	45.3	1.00	"	50.0		90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	68		"	62.5		109	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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 - CPC 42-10

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 B9E0710 - EPA 5030B (Water)

Matrix Spike (B9E0710-MS1)		Source: Y905079-02			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Benzene	52.3	1.00	ug/L	50.0	ND	105	70-130			
Toluene	56.9	1.00	"	50.0	ND	114	70-130			
Ethylbenzene	49.6	1.00	"	50.0	1.09	97.0	70-130			
m,p-Xylene	98.8	2.00	"	100	ND	98.8	70-130			
o-Xylene	48.3	1.00	"	50.0	ND	96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.3	70-130			
Surrogate: Toluene-d8	67		"	62.5		108	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

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 B9E0710 - EPA 5030B (Water)

Matrix Spike Dup (B9E0710-MSD1)		Source: Y905079-02			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Benzene	51.1	1.00	ug/L	50.0	ND	102	70-130	2.40	20	
Toluene	54.8	1.00	"	50.0	ND	110	70-130	3.83	20	
Ethylbenzene	48.8	1.00	"	50.0	1.09	95.4	70-130	1.63	20	
m,p-Xylene	96.6	2.00	"	100	ND	96.6	70-130	2.22	20	
o-Xylene	47.0	1.00	"	50.0	ND	94.1	70-130	2.58	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.9	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		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 - CPC 42-10

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



June 19, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - CPC 42-10

Project Number - [none]

Attached are your analytical results for KMG - CPC 42-10 received by Origins Laboratory, Inc. June 13, 2019. This project is associated with Origins project number Y906250-01.

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 - CPC 42-10

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B15@14'	Y906250-01	Soil	June 13, 2019 11:20	06/13/2019 17:20
B16@14'	Y906250-02	Soil	June 13, 2019 11:24	06/13/2019 17:20
S11@12'	Y906250-03	Soil	June 13, 2019 11:28	06/13/2019 17:20
E09@12'	Y906250-04	Soil	June 13, 2019 12:32	06/13/2019 17:20
E10@12'	Y906250-05	Soil	June 13, 2019 12:36	06/13/2019 17:20
N07@12'	Y906250-06	Soil	June 13, 2019 12:40	06/13/2019 17:20

Origins Laboratory, Inc.



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

Page 3 of 30

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y 906250

Client: Tasman

Client Project ID: CPC 42-10

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 6/13 / 2019

Airbill #: N/A

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

(Describe)

Cooler Number/Temperature: 1 / 5.6 °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 type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

Date/Time Reviewed

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 - CPC 42-10

B15@14'

6/13/2019 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906250-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9F1306	JTD	06/13/2019	06/13/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 72.2 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9F1305	JTD	06/13/2019	06/13/2019	U
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U
Naphthalene	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 124 % 70-130 " " "
Surrogate: Toluene-d8 106 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 109 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	25.91	me/L	1	'[none]'	06/17/2019	06/19/2019
Magnesium	39.29	"	"	"	"	"
Sodium	95.05	"	"	"	"	"

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

B15@14'

6/13/2019 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906250-01 (Soil)

pH in Soil by EPA 9045D

pH	7.98	pH Units	1	B9F1307	OLAB	06/13/2019	06/13/2019
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SAR by 20B Saturated Paste

SAR	16.65		1	'[none]'		06/17/2019	06/19/2019
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.863	0.00507	mmhos/cm	1	B9F1308	OLAB	06/13/2019	06/13/2019
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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 - CPC 42-10

B16@14'

6/13/2019 11:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906250-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9F1306	JTD	06/13/2019	06/13/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 68.0 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	27.7	5.00	mg/kg	25	B9F1305	JTD	06/13/2019	06/13/2019	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	0.216	0.050	"	"	"	JTD	"	"	
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U
Naphthalene	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 130 % 70-130 " " "
Surrogate: Toluene-d8 107 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	27.75	me/L	1	'[none]'		06/17/2019	06/19/2019
Magnesium	36.18	"	"	"		"	"
Sodium	78.08	"	"	"		"	"

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 - CPC 42-10

B16@14'

6/13/2019 11:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906250-02 (Soil)

pH in Soil by EPA 9045D

pH	8.37	pH Units	1	B9F1307	OLAB	06/13/2019	06/13/2019
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SAR by 20B Saturated Paste

SAR	13.81		1	'[none]'		06/17/2019	06/19/2019
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.15	0.00500	mmhos/cm	1	B9F1308	OLAB	06/13/2019	06/13/2019
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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 - CPC 42-10

S11@12'

6/13/2019 11:28:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906250-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	72.1	25.0	mg/kg	1	B9F1306	JTD	06/13/2019	06/13/2019	
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 69.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9F1305	JTD	06/13/2019	06/13/2019	U
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U
Naphthalene	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 131 % 70-130 " " " S-07
Surrogate: Toluene-d8 109 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 111 % 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 - CPC 42-10

E09@12'

6/13/2019 12:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906250-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	64.5	25.0	mg/kg	1	B9F1306	JTD	06/13/2019	06/13/2019	
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 77.0 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	23.1	5.00	mg/kg	25	B9F1305	JTD	06/13/2019	06/13/2019	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	0.134	0.050	"	"	"	JTD	"	"	
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U
Naphthalene	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 126 % 70-130 " " "
Surrogate: Toluene-d8 107 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 110 % 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 - CPC 42-10

E10@12'

6/13/2019 12:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906250-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9F1306	JTD	06/13/2019	06/13/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 67.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	23.9	5.00	mg/kg	25	B9F1305	JTD	06/13/2019	06/13/2019	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	0.164	0.050	"	"	"	JTD	"	"	
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U
Naphthalene	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 129 % 70-130 " " "
Surrogate: Toluene-d8 108 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 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 - CPC 42-10

N07@12'

6/13/2019 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906250-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	56.1	25.0	mg/kg	1	B9F1306	JTD	06/13/2019	06/13/2019	
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 70.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9F1305	JTD	06/13/2019	06/13/2019	U
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U
Naphthalene	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 128 % 70-130 " " "
Surrogate: Toluene-d8 111 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 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 - CPC 42-10

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 B9F1305 - EPA 5030 (soil)										
Blank (B9F1305-BLK1)					Prepared: 06/13/2019 Analyzed: 06/13/2019					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125		132	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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 - CPC 42-10

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 B9F1305 - EPA 5030 (soil)										
Blank (B9F1305-BLK2)					Prepared: 06/13/2019 Analyzed: 06/13/2019					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		115	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

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 B9F1305 - EPA 5030 (soil)										
LCS (B9F1305-BS1)					Prepared: 06/13/2019 Analyzed: 06/13/2019					
Benzene	0.100	0.002	mg/kg	0.100		99.7	70-130			
Toluene	0.105	0.002	"	0.100		105	70-130			
Ethylbenzene	0.091	0.002	"	0.100		90.7	70-130			
m,p-Xylene	0.181	0.004	"	0.200		90.6	70-130			
o-Xylene	0.093	0.002	"	0.100		93.0	70-130			
Naphthalene	0.080	0.008	"	0.100		80.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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 - CPC 42-10

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 B9F1305 - EPA 5030 (soil)										
LCS (B9F1305-BS2)					Prepared: 06/13/2019 Analyzed: 06/13/2019					
Benzene	0.100	0.002	mg/kg	0.100		100	70-130			
Toluene	0.106	0.002	"	0.100		106	70-130			
Ethylbenzene	0.103	0.002	"	0.100		103	70-130			
m,p-Xylene	0.207	0.004	"	0.200		104	70-130			
o-Xylene	0.102	0.002	"	0.100		102	70-130			
Naphthalene	0.078	0.008	"	0.100		78.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	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 - CPC 42-10

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 B9F1305 - EPA 5030 (soil)

Matrix Spike (B9F1305-MS1)		Source: Y906232-01			Prepared: 06/13/2019 Analyzed: 06/13/2019					
Benzene	2.39	0.050	mg/kg	2.50	ND	95.7	70-130			
Toluene	2.59	0.050	"	2.50	ND	104	70-130			
Ethylbenzene	2.50	0.050	"	2.50	ND	99.9	70-130			
m,p-Xylene	4.98	0.100	"	5.00	ND	99.7	70-130			
o-Xylene	2.54	0.050	"	2.50	ND	102	70-130			
Naphthalene	2.46	0.200	"	2.50	ND	98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	3.6		"	3.12		117	70-130			
Surrogate: Toluene-d8	3.3		"	3.12		106	70-130			
Surrogate: 4-Bromofluorobenzene	3.4		"	3.12		108	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

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 B9F1305 - EPA 5030 (soil)

Matrix Spike (B9F1305-MS2)		Source: Y906232-07			Prepared: 06/13/2019 Analyzed: 06/13/2019					
Benzene	2.38	0.050	mg/kg	2.50	ND	95.0	70-130			
Toluene	2.62	0.050	"	2.50	ND	105	70-130			
Ethylbenzene	2.40	0.050	"	2.50	ND	95.9	70-130			
m,p-Xylene	4.73	0.100	"	5.00	ND	94.6	70-130			
o-Xylene	2.25	0.050	"	2.50	ND	90.2	70-130			
Naphthalene	2.62	0.200	"	2.50	0.166	98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	3.4		"	3.12		108	70-130			
Surrogate: Toluene-d8	3.3		"	3.12		107	70-130			
Surrogate: 4-Bromofluorobenzene	2.9		"	3.12		94.3	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

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 B9F1305 - EPA 5030 (soil)										
Matrix Spike Dup (B9F1305-MSD1)					Source: Y906232-01					Prepared: 06/13/2019 Analyzed: 06/13/2019
Benzene	2.48	0.050	mg/kg	2.50	ND	99.1	70-130	3.49	20	
Toluene	2.61	0.050	"	2.50	ND	105	70-130	1.00	20	
Ethylbenzene	2.46	0.050	"	2.50	ND	98.6	70-130	1.31	20	
m,p-Xylene	4.94	0.100	"	5.00	ND	98.8	70-130	0.957	20	
o-Xylene	2.51	0.050	"	2.50	ND	100	70-130	1.05	20	
Naphthalene	2.52	0.200	"	2.50	ND	101	70-130	2.31	20	
Surrogate: 1,2-Dichloroethane-d4	3.5		"	3.12		111	70-130			
Surrogate: Toluene-d8	3.3		"	3.12		106	70-130			
Surrogate: 4-Bromofluorobenzene	3.3		"	3.12		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 - CPC 42-10

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 B9F1305 - EPA 5030 (soil)										
Matrix Spike Dup (B9F1305-MSD2)					Source: Y906232-07					Prepared: 06/13/2019 Analyzed: 06/13/2019
Benzene	2.45	0.050	mg/kg	2.50	ND	97.8	70-130	2.88	20	
Toluene	2.64	0.050	"	2.50	ND	106	70-130	0.912	20	
Ethylbenzene	2.43	0.050	"	2.50	ND	97.4	70-130	1.47	20	
m,p-Xylene	4.97	0.100	"	5.00	ND	99.3	70-130	4.85	20	
o-Xylene	2.49	0.050	"	2.50	ND	99.5	70-130	9.83	20	
Naphthalene	2.44	0.200	"	2.50	0.166	91.1	70-130	7.08	20	
Surrogate: 1,2-Dichloroethane-d4	3.6		"	3.12		115	70-130			
Surrogate: Toluene-d8	3.4		"	3.12		109	70-130			
Surrogate: 4-Bromofluorobenzene	3.3		"	3.12		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 - CPC 42-10

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 B9F1306 - EPA 3580										
Blank (B9F1306-BLK1)					Prepared: 06/13/2019 Analyzed: 06/13/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	42		"	50.0		84.8	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9F1306 - EPA 3580										
Blank (B9F1306-BLK2)					Prepared: 06/13/2019 Analyzed: 06/13/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	38		"	50.0		76.4	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9F1306 - EPA 3580

LCS (B9F1306-BS1)

Prepared: 06/13/2019 Analyzed: 06/13/2019

Diesel (C10-C28)	951	50.0	mg/kg	1000		95.1	70-130			
Residual Range Organics (C28-C40)	963	200	"	1000		96.3	70-130			
Surrogate: o-Terphenyl	46		"	50.0		92.9	50-150			

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 - CPC 42-10

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9F1306 - EPA 3580

LCS (B9F1306-BS2)

Prepared: 06/13/2019 Analyzed: 06/13/2019

Diesel (C10-C28)	966	50.0	mg/kg	1000		96.6	70-130			
Residual Range Organics (C28-C40)	990	200	"	1000		99.0	70-130			
Surrogate: o-Terphenyl	47		"	50.0		93.9	50-150			

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 - CPC 42-10

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9F1306 - EPA 3580

Matrix Spike (B9F1306-MS1)		Source: Y906232-01			Prepared: 06/13/2019 Analyzed: 06/13/2019					
Diesel (C10-C28)	898	50.0	mg/kg	1000	ND	89.8	70-130			
Residual Range Organics (C28-C40)	890	200	"	1000	ND	89.0	70-130			
Surrogate: o-Terphenyl	44		"	50.0		87.5	50-150			

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 - CPC 42-10

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9F1306 - EPA 3580

Matrix Spike (B9F1306-MS2)		Source: Y906232-07			Prepared: 06/13/2019 Analyzed: 06/13/2019					
Diesel (C10-C28)	929	50.0	mg/kg	1000	ND	92.9	70-130			
Residual Range Organics (C28-C40)	913	200	"	1000	ND	91.3	70-130			
Surrogate: o-Terphenyl	48		"	50.0		96.8	50-150			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9F1306 - EPA 3580

Matrix Spike Dup (B9F1306-MSD1)		Source: Y906232-01			Prepared: 06/13/2019 Analyzed: 06/13/2019					
Diesel (C10-C28)	832	50.0	mg/kg	1000	ND	83.2	70-130	7.70	35	
Residual Range Organics (C28-C40)	794	200	"	1000	ND	79.4	70-130	11.5	35	
Surrogate: o-Terphenyl	41		"	50.0		81.2	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9F1306 - EPA 3580

Matrix Spike Dup (B9F1306-MSD2)		Source: Y906232-07			Prepared: 06/13/2019 Analyzed: 06/13/2019					
Diesel (C10-C28)	890	50.0	mg/kg	1000	ND	89.0	70-130	4.29	35	
Residual Range Organics (C28-C40)	906	200	"	1000	ND	90.6	70-130	0.764	35	
Surrogate: o-Terphenyl	45		"	50.0		89.7	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - CPC 42-10

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - 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 B9F1307 - NO PREP

Duplicate (B9F1307-DUP1)		Source: Y906248-01			Prepared: 06/13/2019 Analyzed: 06/13/2019					
pH	7.27		pH Units		7.28			0.137	25	

Batch B9F1308 - NO PREP

Blank (B9F1308-BLK1)		Prepared: 06/13/2019 Analyzed: 06/13/2019								
Specific Conductance (EC)	0.00310	0.00500	mmhos/cm							
Duplicate (B9F1308-DUP1)		Source: Y906248-01			Prepared: 06/13/2019 Analyzed: 06/13/2019					
Specific Conductance (EC)	0.111	0.00500	mmhos/cm		0.111			0.631	25	

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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - CPC 42-10

Notes and Definitions

U Sample is Non-Detect.

S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.

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.



August 09, 2019

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - KMG - CPC 42-10

Project Number - 89366424

Attached are your analytical results for KMG - CPC 42-10 received by Origins Laboratory, Inc. August 07, 2019. This project is associated with Origins project number Y908095-01.

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: 89366424
Project: KMG - CPC 42-10

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH02 - 080719	Y908095-01	Water	August 7, 2019 13:10	08/07/2019 15:40
BH04 - 080719	Y908095-02	Water	August 7, 2019 13:44	08/07/2019 15:40
BH05 - 080719	Y908095-03	Water	August 7, 2019 14:27	08/07/2019 15:40
BH06 - 080719	Y908095-04	Water	August 7, 2019 13:32	08/07/2019 15:40
BH07 - 080719	Y908095-05	Water	August 7, 2019 13:26	08/07/2019 15:40
BH09 - 080719	Y908095-06	Water	August 7, 2019 13:06	08/07/2019 15:40
BH10 - 080719	Y908095-07	Water	August 7, 2019 14:41	08/07/2019 15:40
BH11 - 080719	Y908095-08	Water	August 7, 2019 14:33	08/07/2019 15:40
BH12 - 080719	Y908095-09	Water	August 7, 2019 12:52	08/07/2019 15:40
BH13 - 080719	Y908095-10	Water	August 7, 2019 12:54	08/07/2019 15:40
BH16 - 080719	Y908095-11	Water	August 7, 2019 14:08	08/07/2019 15:40
BH17 - 080719	Y908095-12	Water	August 7, 2019 14:19	08/07/2019 15:40
BH18 - 080719	Y908095-13	Water	August 7, 2019 13:17	08/07/2019 15:40
BH19 - 080719	Y908095-14	Water	August 7, 2019 14:04	08/07/2019 15:40

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 89366424

Project: KMG - CPC 42-10

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89366424
Project: KMG - CPC 42-10

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Y908055

page 1 of 2

ORIGINS
LABORATORY, INC

Client: APC/Tasman
Address: 6855 W 119th Ave
Broomfield, CO 80020
Telephone Number: 303-487-1228
Email Address: bcornez@tasman-geo.com

Project Manager: Bob Cornez
Project Name: CPC 42-10
Project Number: 89366424
Samples Collected By: Brian G. Borden, V

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	RTX	
BH02-080719	8/7/19	1310	3	X				X					1
BH04-080719		1344											2
BH05-080719		1427											3
BH06-080719		1332											4
BH07-080719		1326											5
BH08-080719		1306											6
BH10-080719		1441											7
BH11-080719		1433											8
BH12-080719		1252											9
BH13-080719		1254											10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
B. Borden	8/7/19	1540	[Signature]	8/7/19	1540	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

Temp Received- 9.7

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: 89366424
Project: KMG - CPC 42-10

ORIGINS
LABORATORY, INC

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page 2 of 2

Client: APC / Tasman
Address: 6855 W 19th Ave
Broomfield, CO
Telephone Number: 303-487-1228
Email Address: rcornez@tasman-geo.com

Project Manager: Bob Cornez
Project Name: CPC 42-10
Project Number: 89366424
Samples Collected By: Brian G. Bryden V

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
BH16-080719	8/17/19	1408	3	X				X			BTEX	1
BH17-080719	8/17/19	1419	1									2
BH18-080719	8/17/19	1317	1									3
BH19-080719	8/17/19	1404	1									4
												5
												6
												7
												8
												9
												10

Relinquished By: [Signature] Date: 8/17/19 Time: 1540
Relinquished By: [Signature] Date: 8/17/19 Time: 1540

Received By: [Signature] Date: 8/17/19 Time: 1540
Received By: [Signature] Date: 8/17/19 Time: 1540

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

Temp Received: 9.7
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: 89366424
Project: KMG - CPC 42-10

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1908095

Client: Tasman
Client Project ID: CPC 42-10

Checklist Completed by: JG
Date/time completed: 8/7/2019

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

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

Cooler Number/Temperature: 1 9.7 °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"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? if yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) JP

8/8/19
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: 89366424
Project: KMG - CPC 42-10

BH02 - 080719

8/7/2019 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908095-01 (Water)

BTEX by EPA 8260D

Benzene	87.2	1.00	ug/L	1	B9H0801	KDK	08/08/2019	08/08/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	2.62	1.00	"	"	"	KDK	"	"	
Xylenes, total	3.27	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	89.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	114 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89366424
Project: KMG - CPC 42-10

BH04 - 080719

8/7/2019 1:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908095-02 (Water)

BTEX by EPA 8260D

Benzene	70.0	1.00	ug/L	1	B9H0801	KDK	08/08/2019	08/08/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130			"	"	"
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89366424
Project: KMG - CPC 42-10

BH05 - 080719

8/7/2019 2:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908095-03 (Water)

BTEX by EPA 8260D

Benzene	1.30	1.00	ug/L	1	B9H0801	KDK	08/08/2019	08/08/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.0 %	70-130			"	"	"
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	114 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89366424
Project: KMG - CPC 42-10

BH06 - 080719

8/7/2019 1:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908095-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0801	KDK	08/08/2019	08/08/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.8 %	70-130	"	"	"
Surrogate: Toluene-d8	98.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	114 %	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: 89366424
Project: KMG - CPC 42-10

BH07 - 080719

8/7/2019 1:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908095-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0801	KDK	08/08/2019	08/08/2019	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	93.2 %	70-130			"	"	"
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	115 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89366424
Project: KMG - CPC 42-10

BH09 - 080719

8/7/2019 1:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908095-06 (Water)

BTEX by EPA 8260D

Benzene	6.59	1.00	ug/L	1	B9H0801	KDK	08/08/2019	08/08/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.3 %	70-130			"	"	"
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	116 %	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: 89366424
Project: KMG - CPC 42-10

BH10 - 080719

8/7/2019 2:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908095-07 (Water)

BTEX by EPA 8260D

Benzene	36.8	1.00	ug/L	1	B9H0801	KDK	08/08/2019	08/08/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.8 %	70-130			"	"	"
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	116 %	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: 89366424
Project: KMG - CPC 42-10

BH11 - 080719

8/7/2019 2:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908095-08 (Water)

BTEX by EPA 8260D

Benzene	10.9	1.00	ug/L	1	B9H0801	KDK	08/08/2019	08/08/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130			"	"	"
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	114 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89366424
Project: KMG - CPC 42-10

BH12 - 080719
8/7/2019 12:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908095-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0801	KDK	08/08/2019	08/08/2019	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	93.2 %	70-130	"	"	"
Surrogate: Toluene-d8	97.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	115 %	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: 89366424
Project: KMG - CPC 42-10

BH13 - 080719
8/7/2019 12:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908095-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0801	KDK	08/08/2019	08/08/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	10.8	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130			"	"	"
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89366424
Project: KMG - CPC 42-10

BH16 - 080719

8/7/2019 2:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908095-11 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0801	KDK	08/08/2019	08/08/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.7 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	114 %	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: 89366424
Project: KMG - CPC 42-10

BH17 - 080719

8/7/2019 2:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908095-12 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0801	KDK	08/08/2019	08/08/2019	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	91.8 %	70-130	"	"	"
Surrogate: Toluene-d8	98.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	114 %	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: 89366424
Project: KMG - CPC 42-10

BH18 - 080719

8/7/2019 1:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908095-13 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0801	KDK	08/08/2019	08/08/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.7 %	70-130	"	"	"
Surrogate: Toluene-d8	98.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	114 %	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: 89366424
Project: KMG - CPC 42-10

BH19 - 080719

8/7/2019 2:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908095-14 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H0801	KDK	08/08/2019	08/08/2019	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	93.6 %	70-130			"	"	"
Surrogate: Toluene-d8	98.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	114 %	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: 89366424
Project: KMG - CPC 42-10

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 B9H0801 - EPA 5030B (Water)										
Blank (B9H0801-BLK1)					Prepared: 08/08/2019 Analyzed: 08/08/2019					
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	56		"	62.5		90.1	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		113	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: 89366424
Project: KMG - CPC 42-10

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 B9H0801 - EPA 5030B (Water)

LCS (B9H0801-BS1)

Prepared: 08/08/2019 Analyzed: 08/08/2019

Benzene	52.6	1.00	ug/L	50.0	105	70-130
Toluene	49.3	1.00	"	50.0	98.7	70-130
Ethylbenzene	49.6	1.00	"	50.0	99.3	70-130
m,p-Xylene	96.7	2.00	"	100	96.7	70-130
o-Xylene	49.2	1.00	"	50.0	98.3	70-130
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5	87.2	70-130
Surrogate: Toluene-d8	60		"	62.5	96.5	70-130
Surrogate: 4-Bromofluorobenzene	68		"	62.5	110	70-130

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 89366424
Project: KMG - CPC 42-10

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 B9H0801 - EPA 5030B (Water)

Matrix Spike (B9H0801-MS1)		Source: Y908095-05			Prepared: 08/08/2019 Analyzed: 08/08/2019					
Benzene	63.2	1.00	ug/L	50.0	0.860	125	70-130			
Toluene	59.2	1.00	"	50.0	ND	118	70-130			
Ethylbenzene	58.4	1.00	"	50.0	ND	117	70-130			
m,p-Xylene	114	2.00	"	100	ND	114	70-130			
o-Xylene	57.6	1.00	"	50.0	ND	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.3	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		111	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: 89366424
Project: KMG - CPC 42-10

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 B9H0801 - EPA 5030B (Water)

Matrix Spike Dup (B9H0801-MSD1)		Source: Y908095-05			Prepared: 08/08/2019 Analyzed: 08/08/2019					
Benzene	63.2	1.00	ug/L	50.0	0.860	125	70-130	0.0950	20	
Toluene	60.2	1.00	"	50.0	ND	120	70-130	1.51	20	
Ethylbenzene	59.6	1.00	"	50.0	ND	119	70-130	2.00	20	
m,p-Xylene	116	2.00	"	100	ND	116	70-130	1.52	20	
o-Xylene	58.4	1.00	"	50.0	ND	117	70-130	1.33	20	
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.4	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		111	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 89366424

Project: KMG - CPC 42-10

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President