

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.



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

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page 2 of 2

1/811091

**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

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 <sub>3</sub>	Other	Groundwater	Soil	2 Lit. Canister #			Other
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

Reinquisition By: W. P. P. Date: 11/5/2018 Time: 1700  
 Received By: BT Date: 11/6/18 Time: 1700  
 Turnaround Time: Same Day  24 Hr  48 Hr  72 Hr  Standard

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Bob Cornez  
 Project Number: [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 \_\_\_\_\_ / \_\_\_\_\_ °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 <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)?</sup>	<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 <sup>(1)?</sup> (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

<sup>(1)</sup> 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 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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 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.



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 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			"	"	"	"	

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Bob Cornez  
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 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.



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 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			"	"	"	"	

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 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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 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			"	"	"	"	

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 Denver CO 80211

Bob Cornez  
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 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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 Denver CO 80211

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 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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 Denver CO 80211

Bob Cornez  
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 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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 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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 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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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			"	"	"	"	

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 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.



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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.



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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 - 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.



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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 - 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.



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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 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.



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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 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.



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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 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.



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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 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			

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 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)**

<b>Matrix Spike (B8K0701-MS2)</b>	<b>Source: Y811082-03</b>			<b>Prepared: 11/07/2018 Analyzed: 11/07/2018</b>						
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.



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 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			

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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 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.



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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.

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



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

**ORIGINS**  
 LABORATORY, INC  
 www.originslaboratory.com  
 page 2 of 2

Client: APC / Tasman  
 Address: 6899 N Pecos St  
 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

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 <sub>3</sub>	Groundwater	Soil	Other			Other
BH11-031119	3/11/19	1315	3	X	X	X	X		BTEX			
BH12-031119		1140	1									
BH13-031119		1151	1									
BH14-031119		1806	1									
BH15-031119		1156	2									
BH16-031119		1138	3									
BH17-031119		1128	1									
BH18-031119		1245	1									
BH19-031119		1400	1									
Relinquished By:	Date: 3/11/19	Time: 1445	Time: 1445	Received By:	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 type="checkbox"/>	Standard <input checked="" type="checkbox"/>

Comments: 26  
 P.L.S. B... ..

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  
 Date/time completed: 3 / 12 / 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 / 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 <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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.



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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 - 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.



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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 - 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			"	"	"	"	

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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			"	"	"	"	

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 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			"	"	"	"	

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 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			"	"	"	"	

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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.



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 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			"	"	"	"	

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 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.



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 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.



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 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		"	"	"	

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 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.



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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 - 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			"	"	"	"	

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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 - 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			"	"	"	"	

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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			"	"	"	"	

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 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			"	"	"	"	

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 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			"	"	"	"	

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 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			"	"	"	"	

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 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			"	"	"	"	

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 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
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**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.



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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 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)**

**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.



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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 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)**

<b>Matrix Spike (B9C1205-MS1)</b>	<b>Source: Y903139-01</b>			<b>Prepared: 03/12/2019 Analyzed: 03/12/2019</b>						
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.



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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 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.



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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



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.



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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

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  
 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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

<sup>(1)</sup>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.



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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	<b>1.09</b>	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.



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 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.



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 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.



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 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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 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.



*The results in 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 - 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			"	"	"	"	

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 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			"	"	"	"	

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 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			"	"	"	"	

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 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			"	"	"	"	

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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			"	"	"	"	

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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			"	"	"	"	

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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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 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			"	"	"	"	

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 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.



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 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			

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 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			

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 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			

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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			

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 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)**

<b>Matrix Spike (B9E0710-MS1)</b>	<b>Source: Y905079-02</b>			<b>Prepared: 05/07/2019 Analyzed: 05/07/2019</b>						
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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 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			

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6899 Pecos Street, Unit C  
Denver CO 80211

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

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**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

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



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.



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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

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  
 Date/time completed: 6/13 / 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: \_\_\_\_\_ (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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCl, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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 6/13/19

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

**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.



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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.



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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.



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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.



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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	<b>23.9</b>	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	<b>0.164</b>	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.



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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.



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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 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.



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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 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.



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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 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.



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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 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.



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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 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.



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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 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
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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.



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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 B9F1305 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B9F1305-MSD2)</b>	<b>Source: Y906232-07</b>			<b>Prepared: 06/13/2019 Analyzed: 06/13/2019</b>						
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			

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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
<b>Batch B9F1306 - EPA 3580</b>										
<b>Blank (B9F1306-BLK1)</b>										
					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			

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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
<b>Batch B9F1306 - EPA 3580</b>										
<b>Blank (B9F1306-BLK2)</b>										
					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			

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 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
<b>Batch B9F1306 - EPA 3580</b>										
<b>LCS (B9F1306-BS1)</b>										
					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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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
<b>Batch B9F1306 - EPA 3580</b>										
<b>LCS (B9F1306-BS2)</b>					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			

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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**

<b>Matrix Spike (B9F1306-MS1)</b>	<b>Source: Y906232-01</b>			<b>Prepared: 06/13/2019 Analyzed: 06/13/2019</b>						
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			

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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
<b>Batch B9F1306 - EPA 3580</b>										
<b>Matrix Spike (B9F1306-MS2)</b>		<b>Source: Y906232-07</b>			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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 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**

<b>Matrix Spike Dup (B9F1306-MSD1)</b>	<b>Source: Y906232-01</b>			<b>Prepared: 06/13/2019 Analyzed: 06/13/2019</b>						
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			

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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**

<b>Matrix Spike Dup (B9F1306-MSD2)</b>	<b>Source: Y906232-07</b>			<b>Prepared: 06/13/2019 Analyzed: 06/13/2019</b>						
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			

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6899 Pecos Street, Unit C  
Denver CO 80211

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

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**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.

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---

Jen Pellegrini For Noelle Doyle Mathis, President

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



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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Jen Pellegrini For Noelle Doyle Mathis, President





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 <sup>(1)?</sup>		<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 <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>if yes, contact client and note in narrative.</b>		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)?</sup> (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) JG

Date/Time Reviewed 8/8/19

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

**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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 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			"	"	"	"	

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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			"	"	"	"	

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 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.



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 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			"	"		"	

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 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			"	"	"	"	

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 Denver CO 80211

Bob Cornez  
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 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			"	"	"	"	

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 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				"	"	"	

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Bob Cornez  
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 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	<b>10.8</b>	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			"	"	"		

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 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			"	"	"	"	

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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			"	"	"	"	

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 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			"	"	"	"	

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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			"	"	"	"	

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 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)**

**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			

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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)**

**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)**

<b>Matrix Spike (B9H0801-MS1)</b>	<b>Source: Y908095-05</b>			<b>Prepared: 08/08/2019 Analyzed: 08/08/2019</b>						
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.



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 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			

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6899 Pecos Street, Unit C  
Denver CO 80211

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

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**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