

April 09, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - DCP - CR42 & CR13**

**Project Number - [none]**

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. April 07, 2019. This project is associated with Origins project number Y904135-01.

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

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Basement#1	Y904135-01	Air	April 7, 2019 14:10	04/07/2019 15:41

Origins Laboratory, Inc.



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Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 17904135

Client: Tasman  
 Client Project ID: DCP - CR 42 + 13

Checklist Completed by: JG  
 Date/time completed: 4/8/2019

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

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

Cooler Number/Temperature: 1 / - °C 1 / - °C 1 / - °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 ≤ 8°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>Air</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? 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 HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> / (pH >10 for samples preserved with Na <sub>2</sub> CO <sub>3</sub> +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.

[Signature]  
 Reviewed by (Project Manager)

4/8/19  
 Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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 Denver CO 80211

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**Basement#1**

**4/7/2019 2:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y904135-01 (Air)

**GBTEX by TO-15M GC/MS**

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Gasoline Range Hydrocarbons	<b>179000</b>	50000	ug/m <sup>3</sup> Air	250	B9D0805	DPM	04/09/2019	04/09/2019	
Benzene	ND	2.80	"	1	"	DPM	"	04/09/2019	U
Toluene	<b>10.2</b>	5.00	"	"	"	DPM	"	"	
Ethylbenzene	ND	5.00	"	"	"	DPM	"	"	U
m,p-Xylene	ND	19.0	"	"	"	DPM	"	"	U
o-Xylene	ND	4.70	"	"	"	DPM	"	"	U
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130				"	"	04/09/2019	
Surrogate: Toluene-d8	102 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	82.3 %	70-130				"	"	"	

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**Volatile Organic Compounds by TO-15 in Air - 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 B9D0805 - Default Prep - Air**

<b>Blank (B9D0805-BLK1)</b>										T
					Prepared: 04/09/2019 Analyzed: 04/09/2019					
Gasoline Range Hydrocarbons	ND	200	ug/m <sup>3</sup> Air							U
Benzene	ND	2.80	"							U
Toluene	ND	5.00	"							U
Ethylbenzene	ND	5.00	"							U
m,p-Xylene	ND	19.0	"							U
o-Xylene	ND	4.70	"							U
Surrogate: 1,2-Dichloroethane-d4	10.2		ppbv	10.0		102	70-130			
Surrogate: Toluene-d8	10.3		"	10.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	9.54		"	10.0		95.4	70-130			

<b>LCS (B9D0805-BS1)</b>										T
					Prepared: 04/09/2019 Analyzed: 04/09/2019					
Benzene	30.9	2.80	ug/m <sup>3</sup> Air	31.9		96.7	70-130			
Toluene	40.9	5.00	"	37.7		108	70-130			
Ethylbenzene	42.8	5.00	"	43.4		98.5	70-130			
m,p-Xylene	173	19.0	"	174		99.6	70-130			
o-Xylene	42.9	4.70	"	43.4		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	10.3		ppbv	10.0		103	70-130			
Surrogate: Toluene-d8	9.37		"	10.0		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	10.5		"	10.0		105	70-130			

<b>LCS Dup (B9D0805-BSD1)</b>										T
					Prepared: 04/09/2019 Analyzed: 04/09/2019					
Benzene	30.8	2.80	ug/m <sup>3</sup> Air	31.9		96.5	70-130	0.207	25	
Toluene	40.5	5.00	"	37.7		108	70-130	0.834	25	
Ethylbenzene	43.8	5.00	"	43.4		101	70-130	2.31	25	
m,p-Xylene	184	19.0	"	174		106	70-130	6.27	25	
o-Xylene	46.7	4.70	"	43.4		108	70-130	8.43	25	
Surrogate: 1,2-Dichloroethane-d4	10.3		ppbv	10.0		103	70-130			

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**Volatile Organic Compounds by TO-15 in Air - 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 B9D0805 - Default Prep - Air

LCS Dup (B9D0805-BSD1)

Prepared: 04/09/2019 Analyzed: 04/09/2019

T

Surrogate: Toluene-d8	9.45		ppbv	10.0		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	10.7		"	10.0		107	70-130			

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**Notes and Definitions**

U Sample is Non-Detect.

T The TO-15 analysis is not part of the NELAC accreditation

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