



April 26, 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 22, 2019. This project is associated with Origins project number Y904354-01.

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

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

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

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

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

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



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

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Basement-BZ-01	Y904354-01	Air	April 20, 2019 14:50	04/22/2019 07:10
Basement-Floor-01	Y904354-02	Air	April 20, 2019 14:50	04/22/2019 07:10
MainLevel-BZ-01	Y904354-03	Air	April 20, 2019 14:50	04/22/2019 07:10

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

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

www.originslaboratory.com

1904354

page 1 of 1

ORIGINS
LABORATORY, INC

Client: Tasman / DCP
Address: 6899 Pecos St.
Denver, CO 80221
Telephone Number: 303-487-1228
Email Address: bhumphrey@tasman-geo.com

Project Manager: Brian Humphrey
Project Name: DCP CR42 / CR13
Project Number:
Samples Collected By: Brian Humphrey

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other			
Basement-BZ-01	4/20/19	1450	1	X										Full Suite VOC + TP/PT 1
Basement-Floor-01	4/20/19	1450	1	X										2
Main Level-BZ-01	4/20/19	1450	1	X										3
														4
														5
														6
														7
														8
														9
														10

Relinquished By: [Signature] Date: 4/22/19 Time: 0710
Relinquished By: [Signature] Date: 4/22/19 Time: 0710

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

Date Results Needed

Temp Received-

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y904354

Client: Tasman

Client Project ID: CR 42 + 13

Checklist Completed by: JG

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

Date/time completed: 4 / 22 / 2019

Airbill #: N/A

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

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

Thermometer ID: T003

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

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

Reviewed by: [Signature] (Project Manager)

4/22/19
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

Basement-BZ-01
4/20/2019 2:50:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904354-01 (Air)

GRO/TVPH by TO-15M GC/MS

T

Gasoline Range Hydrocarbons	441000	112000	ug/m ³ Air	250	B9D2208	DPM	04/22/2019	04/24/2019
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130			"	"		04/24/2019
Surrogate: Toluene-d8	106 %	70-130			"	"		"
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"		"

VOCs by TO-15

T

1,1,1-Trichloroethane	ND	2.50	ug/m ³ Air	2.5	"	DPM	"	"	U
1,1,2,2-Tetrachloroethane	ND	2.50	"	"	"	DPM	"	"	U
1,1,2-Trichloroethane	ND	2.50	"	"	"	DPM	"	"	U
1,1-Dichloroethane	ND	2.50	"	"	"	DPM	"	"	U
1,1-Dichloroethene	ND	2.50	"	"	"	DPM	"	"	U
1,2,4-Trichlorobenzene	ND	12.5	"	"	"	DPM	"	"	U
1,2,4-Trimethylbenzene	ND	12.5	"	"	"	DPM	"	04/26/2019	U
1,2-Dichlorobenzene	ND	12.5	"	"	"	DPM	"	"	U
1,2-Dichloroethane	ND	2.50	"	"	"	DPM	"	04/24/2019	U
1,2-Dichloropropane	ND	2.50	"	"	"	DPM	"	"	U
1,2-Dibromoethane	ND	2.50	"	"	"	DPM	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

Basement-BZ-01

4/20/2019 2:50:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y904354-01 (Air)

VOCs by TO-15

									T
1,3,5-Trimethylbenzene	ND	5.00	ug/m ³ Air	2.5	B9D2208	DPM	04/22/2019	04/24/2019	U
1,3 Butadiene	ND	2.20	"	"	"	DPM	"	"	U
1,3-Dichlorobenzene	ND	2.50	"	"	"	DPM	"	"	U
1,4-Dichlorobenzene	ND	2.50	"	"	"	DPM	"	"	U
4-Ethyltoluene	ND	5.00	"	"	"	DPM	"	"	U
Acetone	209	5.00	"	"	"	DPM	"	"	
Benzene	1.52	1.25	"	"	"	DPM	"	"	
Benzyl chloride	ND	2.50	"	"	"	DPM	"	"	U
Bromodichloromethane	ND	2.50	"	"	"	DPM	"	"	U
Bromoform	ND	2.50	"	"	"	DPM	"	"	U
2-Hexanone	ND	5.00	"	"	"	DPM	"	"	U
Bromomethane	ND	2.50	"	"	"	DPM	"	"	U
Carbon disulfide	ND	2.50	"	"	"	DPM	"	"	U
Carbon Tetrachloride	ND	2.50	"	"	"	DPM	"	"	U
4-Methyl-2-pentanone	ND	2.50	"	"	"	DPM	"	"	U
Chlorobenzene	ND	2.50	"	"	"	DPM	"	"	U
Chloroethane	ND	2.50	"	"	"	DPM	"	"	U
Chloroform	ND	2.50	"	"	"	DPM	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

Basement-BZ-01

4/20/2019 2:50:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904354-01 (Air)

VOCs by TO-15

									T
Chloromethane	ND	2.50	ug/m³ Air	2.5	B9D2208	DPM	04/22/2019	04/24/2019	U
cis-1,2-Dichloroethene	ND	2.50	"	"	"	DPM	"	"	U
cis-1,3-Dichloropropene	ND	2.50	"	"	"	DPM	"	"	U
Dibromochloromethane	ND	2.50	"	"	"	DPM	"	"	U
Ethanol	ND	2.50	"	"	"	DPM	"	"	U
Ethylbenzene	ND	2.50	"	"	"	DPM	"	"	U
Freon 113	ND	2.50	"	"	"	DPM	"	"	U
Freon 11	ND	2.50	"	"	"	DPM	"	"	U
Freon 12	ND	2.50	"	"	"	DPM	"	"	U
Freon 114	ND	2.50	"	"	"	DPM	"	"	U
Heptane	ND	5.00	"	"	"	DPM	"	"	U
Hexane	988	25.0	"	25	"	DPM	"	04/24/2019	
Hexachlorobutadiene	ND	6.25	"	2.5	"	DPM	"	04/24/2019	U
m,p-Xylene	ND	37.5	"	"	"	DPM	"	04/26/2019	U
Methyl tert-Butyl Ether	ND	2.50	"	"	"	DPM	"	04/24/2019	U
Methylene Chloride	ND	2.50	"	"	"	DPM	"	"	U
Naphthalene	ND	7.50	"	"	"	DPM	"	"	U
o-Xylene	ND	12.5	"	"	"	DPM	"	04/26/2019	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

Basement-BZ-01

4/20/2019 2:50:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y904354-01 (Air)

VOCs by TO-15

										T
Styrene	ND	5.00	ug/m ³ Air	2.5	B9D2208	DPM	04/22/2019	04/24/2019		U
Tetrachloroethene	ND	2.50	"	"	"	DPM	"	"		U
Tetrahydrofuran	ND	2.50	"	"	"	DPM	"	"		U
Toluene	15.8	5.00	"	"	"	DPM	"	"		
trans-1,2-Dichloroethene	ND	2.50	"	"	"	DPM	"	"		U
trans-1,3-Dichloropropene	ND	2.50	"	"	"	DPM	"	"		U
Trichloroethene	ND	2.50	"	"	"	DPM	"	"		U
Vinyl acetate	ND	2.50	"	"	"	DPM	"	"		U
Vinyl chloride	ND	2.50	"	"	"	DPM	"	"		U
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130			"	"	"	"		
Surrogate: Toluene-d8	106 %	70-130			"	"	"	"		
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"	"		

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

Basement-Floor-01
4/20/2019 2:50:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904354-02 (Air)

GRO/TVPH by TO-15M GC/MS

T

Gasoline Range Hydrocarbons	466000	112000	ug/m ³ Air	250	B9D2208	DPM	04/22/2019	04/24/2019	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130			"	"		04/24/2019	
Surrogate: Toluene-d8	110 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"		"	

VOCs by TO-15

T

1,1,1-Trichloroethane	ND	2.50	ug/m ³ Air	2.5	"	DPM	"	"	U
1,1,2,2-Tetrachloroethane	ND	2.50	"	"	"	DPM	"	"	U
1,1,2-Trichloroethane	ND	2.50	"	"	"	DPM	"	"	U
1,1-Dichloroethane	ND	2.50	"	"	"	DPM	"	"	U
1,1-Dichloroethene	ND	2.50	"	"	"	DPM	"	"	U
1,2,4-Trichlorobenzene	ND	12.5	"	"	"	DPM	"	"	U
1,2,4-Trimethylbenzene	ND	12.5	"	"	"	DPM	"	04/26/2019	U
1,2-Dichlorobenzene	ND	2.50	"	"	"	DPM	"	04/24/2019	U
1,2-Dichloroethane	ND	2.50	"	"	"	DPM	"	"	U
1,2-Dichloropropane	ND	2.50	"	"	"	DPM	"	"	U
1,2-Dibromoethane	ND	2.50	"	"	"	DPM	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

Basement-Floor-01
4/20/2019 2:50:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904354-02 (Air)

VOCs by TO-15

									T
1,3,5-Trimethylbenzene	ND	5.00	ug/m ³ Air	2.5	B9D2208	DPM	04/22/2019	04/24/2019	U
1,3 Butadiene	ND	2.20	"	"	"	DPM	"	"	U
1,3-Dichlorobenzene	ND	2.50	"	"	"	DPM	"	"	U
1,4-Dichlorobenzene	ND	2.50	"	"	"	DPM	"	"	U
4-Ethyltoluene	ND	5.00	"	"	"	DPM	"	"	U
Acetone	ND	5.00	"	"	"	DPM	"	"	U
Benzene	ND	1.25	"	"	"	DPM	"	"	U
Benzyl chloride	2.59	2.50	"	"	"	DPM	"	"	
Bromodichloromethane	ND	2.50	"	"	"	DPM	"	"	U
Bromoform	ND	2.50	"	"	"	DPM	"	"	U
2-Hexanone	ND	5.00	"	"	"	DPM	"	"	U
Bromomethane	ND	2.50	"	"	"	DPM	"	"	U
Carbon disulfide	ND	2.50	"	"	"	DPM	"	"	U
Carbon Tetrachloride	ND	2.50	"	"	"	DPM	"	"	U
4-Methyl-2-pentanone	ND	2.50	"	"	"	DPM	"	"	U
Chlorobenzene	ND	2.50	"	"	"	DPM	"	"	U
Chloroethane	ND	2.50	"	"	"	DPM	"	"	U
Chloroform	ND	2.50	"	"	"	DPM	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

Basement-Floor-01
4/20/2019 2:50:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904354-02 (Air)

VOCs by TO-15

									T
Chloromethane	ND	2.50	ug/m ³ Air	2.5	B9D2208	DPM	04/22/2019	04/24/2019	U
cis-1,2-Dichloroethene	ND	2.50	"	"	"	DPM	"	"	U
cis-1,3-Dichloropropene	ND	2.50	"	"	"	DPM	"	"	U
Dibromochloromethane	ND	2.50	"	"	"	DPM	"	"	U
Ethanol	ND	2.50	"	"	"	DPM	"	"	U
Ethylbenzene	ND	2.50	"	"	"	DPM	"	"	U
Freon 113	ND	2.50	"	"	"	DPM	"	"	U
Freon 11	ND	2.50	"	"	"	DPM	"	"	U
Freon 12	ND	2.50	"	"	"	DPM	"	"	U
Freon 114	ND	2.50	"	"	"	DPM	"	"	U
Heptane	ND	5.00	"	"	"	DPM	"	"	U
Hexane	1190	25.0	"	25	"	DPM	"	04/24/2019	
Hexachlorobutadiene	ND	6.25	"	2.5	"	DPM	"	04/24/2019	U
m,p-Xylene	ND	37.5	"	"	"	DPM	"	04/26/2019	U
Methyl tert-Butyl Ether	ND	2.50	"	"	"	DPM	"	04/24/2019	U
Methylene Chloride	ND	2.50	"	"	"	DPM	"	"	U
Naphthalene	ND	7.50	"	"	"	DPM	"	"	U
o-Xylene	ND	12.5	"	"	"	DPM	"	04/26/2019	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

Basement-Floor-01
4/20/2019 2:50:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904354-02 (Air)

VOCs by TO-15

									T
Styrene	ND	5.00	ug/m ³ Air	2.5	B9D2208	DPM	04/22/2019	04/24/2019	U
Tetrachloroethene	ND	2.50	"	"	"	DPM	"	"	U
Tetrahydrofuran	ND	2.50	"	"	"	DPM	"	"	U
Toluene	19.4	5.00	"	"	"	DPM	"	"	
trans-1,2-Dichloroethene	ND	2.50	"	"	"	DPM	"	"	U
trans-1,3-Dichloropropene	ND	2.50	"	"	"	DPM	"	"	U
Trichloroethene	ND	2.50	"	"	"	DPM	"	"	U
Vinyl acetate	ND	2.50	"	"	"	DPM	"	"	U
Vinyl chloride	ND	2.50	"	"	"	DPM	"	"	U
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	110 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

MainLevel-BZ-01
4/20/2019 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904354-03 (Air)

GRO/TVPH by TO-15M GC/MS

T

Gasoline Range Hydrocarbons	185000	112000	ug/m ³ Air	250	B9D2208	DPM	04/22/2019	04/24/2019
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"		04/24/2019
Surrogate: Toluene-d8	101 %	70-130			"	"		"
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"		"

VOCs by TO-15

T

1,1,1-Trichloroethane	ND	2.50	ug/m ³ Air	2.5	"	DPM	"	"	U
1,1,2,2-Tetrachloroethane	ND	2.50	"	"	"	DPM	"	"	U
1,1,2-Trichloroethane	ND	2.50	"	"	"	DPM	"	"	U
1,1-Dichloroethane	ND	2.50	"	"	"	DPM	"	"	U
1,1-Dichloroethene	ND	2.50	"	"	"	DPM	"	"	U
1,2,4-Trichlorobenzene	ND	12.5	"	"	"	DPM	"	"	U
1,2,4-Trimethylbenzene	ND	5.00	"	"	"	DPM	"	"	U
1,2-Dichlorobenzene	ND	2.50	"	"	"	DPM	"	"	U
1,2-Dichloroethane	ND	2.50	"	"	"	DPM	"	"	U
1,2-Dichloropropane	ND	2.50	"	"	"	DPM	"	"	U
1,2-Dibromoethane	ND	2.50	"	"	"	DPM	"	"	U

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

MainLevel-BZ-01
4/20/2019 2:50:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904354-03 (Air)

VOCs by TO-15

									T
1,3,5-Trimethylbenzene	ND	5.00	ug/m ³ Air	2.5	B9D2208	DPM	04/22/2019	04/24/2019	U
1,3 Butadiene	ND	2.20	"	"	"	DPM	"	"	U
1,3-Dichlorobenzene	ND	2.50	"	"	"	DPM	"	"	U
1,4-Dichlorobenzene	ND	2.50	"	"	"	DPM	"	"	U
4-Ethyltoluene	ND	5.00	"	"	"	DPM	"	"	U
Acetone	ND	5.00	"	"	"	DPM	"	"	U
Benzene	ND	1.25	"	"	"	DPM	"	"	U
Benzyl chloride	ND	2.50	"	"	"	DPM	"	"	U
Bromodichloromethane	ND	2.50	"	"	"	DPM	"	"	U
Bromoform	ND	2.50	"	"	"	DPM	"	"	U
2-Hexanone	ND	5.00	"	"	"	DPM	"	"	U
Bromomethane	ND	2.50	"	"	"	DPM	"	"	U
Carbon disulfide	ND	2.50	"	"	"	DPM	"	"	U
Carbon Tetrachloride	ND	2.50	"	"	"	DPM	"	"	U
4-Methyl-2-pentanone	ND	2.50	"	"	"	DPM	"	"	U
Chlorobenzene	ND	2.50	"	"	"	DPM	"	"	U
Chloroethane	ND	2.50	"	"	"	DPM	"	"	U
Chloroform	ND	2.50	"	"	"	DPM	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

MainLevel-BZ-01
4/20/2019 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904354-03 (Air)

VOCs by TO-15

									T
Chloromethane	ND	2.50	ug/m ³ Air	2.5	B9D2208	DPM	04/22/2019	04/24/2019	U
cis-1,2-Dichloroethene	ND	2.50	"	"	"	DPM	"	"	U
cis-1,3-Dichloropropene	ND	2.50	"	"	"	DPM	"	"	U
Dibromochloromethane	ND	2.50	"	"	"	DPM	"	"	U
Ethanol	ND	2.50	"	"	"	DPM	"	"	U
Ethylbenzene	ND	2.50	"	"	"	DPM	"	"	U
Freon 113	ND	2.50	"	"	"	DPM	"	"	U
Freon 11	ND	2.50	"	"	"	DPM	"	"	U
Freon 12	ND	2.50	"	"	"	DPM	"	"	U
Freon 114	ND	2.50	"	"	"	DPM	"	"	U
Heptane	ND	5.00	"	"	"	DPM	"	"	U
Hexane	214	2.50	"	"	"	DPM	"	"	
Hexachlorobutadiene	ND	6.25	"	"	"	DPM	"	"	U
m,p-Xylene	ND	37.5	"	"	"	DPM	"	04/26/2019	U
Methyl tert-Butyl Ether	ND	2.50	"	"	"	DPM	"	04/24/2019	U
Methylene Chloride	ND	2.50	"	"	"	DPM	"	"	U
Naphthalene	ND	7.50	"	"	"	DPM	"	"	U
o-Xylene	ND	2.50	"	"	"	DPM	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

MainLevel-BZ-01
4/20/2019 2:50:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904354-03 (Air)

VOCs by TO-15

									T
Styrene	ND	5.00	ug/m ³ Air	2.5	B9D2208	DPM	04/22/2019	04/24/2019	U
Tetrachloroethene	ND	2.50	"	"	"	DPM	"	"	U
Tetrahydrofuran	ND	2.50	"	"	"	DPM	"	"	U
Toluene	ND	5.00	"	"	"	DPM	"	"	U
trans-1,2-Dichloroethene	ND	2.50	"	"	"	DPM	"	"	U
trans-1,3-Dichloropropene	ND	2.50	"	"	"	DPM	"	"	U
Trichloroethene	ND	2.50	"	"	"	DPM	"	"	U
Vinyl acetate	ND	2.50	"	"	"	DPM	"	"	U
Vinyl chloride	ND	2.50	"	"	"	DPM	"	"	U
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"		"	
Surrogate: Toluene-d8	101 %	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

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

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 B9D2208 - Default Prep - Air

Blank (B9D2208-BLK1)

Prepared: 04/22/2019 Analyzed: 04/23/2019

T

Gasoline Range Hydrocarbons	ND	448	ug/m ³ Air							U
1,1,1-Trichloroethane	ND	1.00	"							U
1,1,2,2-Tetrachloroethane	ND	1.00	"							U
1,1,2-Trichloroethane	ND	1.00	"							U
1,1-Dichloroethane	ND	1.00	"							U
1,1-Dichloroethene	ND	1.00	"							U
1,2,4-Trichlorobenzene	ND	5.00	"							U
1,2,4-Trimethylbenzene	ND	5.00	"							U
1,2-Dichlorobenzene	ND	5.00	"							U
1,2-Dichloroethane	ND	1.00	"							U
1,2-Dichloropropane	ND	1.00	"							U
1,2-Dibromoethane	ND	1.00	"							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
1,3 Butadiene	ND	0.880	"							U
1,3-Dichlorobenzene	ND	15.0	"							U
1,4-Dichlorobenzene	ND	1.00	"							U
4-Ethyltoluene	ND	5.00	"							U
Acetone	ND	2.00	"							U
Benzene	ND	0.500	"							U
Benzyl chloride	ND	1.00	"							U
Bromodichloromethane	ND	1.00	"							U
Bromoform	ND	1.00	"							U
Bromomethane	ND	1.00	"							U
2-Hexanone	ND	2.00	"							U
Carbon disulfide	ND	1.00	"							U
Carbon Tetrachloride	ND	1.00	"							U

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

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 B9D2208 - Default Prep - Air

Blank (B9D2208-BLK1)

Prepared: 04/22/2019 Analyzed: 04/23/2019

T

Chlorobenzene	ND	1.00	ug/m ³ Air							U
4-Methyl-2-pentanone	ND	1.00	"							U
Chloroethane	ND	1.00	"							U
Chloroform	ND	1.00	"							U
Chloromethane	ND	1.00	"							U
cis-1,2-Dichloroethene	ND	1.00	"							U
cis-1,3-Dichloropropene	ND	1.00	"							U
Dibromochloromethane	ND	1.00	"							U
Ethanol	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Freon 113	ND	1.00	"							U
Freon 11	ND	1.00	"							U
Freon 12	ND	1.00	"							U
Freon 114	ND	1.00	"							U
Heptane	ND	2.00	"							U
Hexane	ND	1.00	"							U
Hexachlorobutadiene	ND	2.50	"							U
m,p-Xylene	ND	15.0	"							U
Methyl tert-Butyl Ether	ND	1.00	"							U
Methylene Chloride	ND	1.00	"							U
Naphthalene	ND	15.0	"							U
o-Xylene	ND	5.00	"							U
Styrene	ND	2.00	"							U
Tetrachloroethene	ND	1.00	"							U
Tetrahydrofuran	ND	1.00	"							U
Toluene	ND	2.00	"							U

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

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 B9D2208 - Default Prep - Air

Blank (B9D2208-BLK1)					Prepared: 04/22/2019 Analyzed: 04/23/2019					T
trans-1,2-Dichloroethene	ND	1.00	ug/m ³ Air							U
trans-1,3-Dichloropropene	ND	1.00	"							U
Trichloroethene	ND	1.00	"							U
Vinyl acetate	ND	1.00	"							U
Vinyl chloride	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	10.0		ppbv	10.0		100	70-130			
Surrogate: Toluene-d8	10.6		"	10.0		106	70-130			
Surrogate: 4-Bromofluorobenzene	9.90		"	10.0		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	10.0		"	10.0		100	70-130			
Surrogate: Toluene-d8	10.6		"	10.0		106	70-130			
Surrogate: 4-Bromofluorobenzene	9.90		"	10.0		99.0	70-130			

LCS (B9D2208-BS1)

Prepared: 04/22/2019 Analyzed: 04/24/2019

T

1,1,1-Trichloroethane	52.1	1.00	ug/m ³ Air	54.6	95.5	70-130
1,1,2,2-Tetrachloroethane	72.4	1.00	"	68.7	105	70-130
Benzene	31.3	2.80	"	31.9	98.1	70-130
Toluene	38.6	5.00	"	37.7	102	70-130
1,1,2-Trichloroethane	49.6	1.00	"	54.6	90.9	70-130
Ethylbenzene	41.9	5.00	"	43.4	96.4	70-130
1,1-Dichloroethane	38.2	1.00	"	40.5	94.4	70-130
m,p-Xylene	173	19.0	"	174	99.4	70-130
1,1-Dichloroethene	41.2	1.00	"	39.6	104	70-130
o-Xylene	45.6	4.70	"	43.4	105	70-130
1,2,4-Trichlorobenzene	66.3	5.00	"	74.2	89.3	70-130
1,2,4-Trimethylbenzene	48.7	2.00	"	49.2	99.1	70-125
1,2-Dichlorobenzene	57.0	1.00	"	60.1	94.8	70-130
1,2-Dichloroethane	36.7	1.00	"	40.5	90.7	70-130

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

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 B9D2208 - Default Prep - Air

LCS (B9D2208-BS1)

Prepared: 04/22/2019 Analyzed: 04/24/2019

T

1,2-Dichloropropane	43.5	1.00	ug/m ³ Air	46.2		94.2	70-130			
1,2-Dibromoethane	73.1	1.00	"	76.8		95.1	70-130			
1,3,5-Trimethylbenzene	53.1	2.00	"	49.2		108	71-130			
1,3 Butadiene	22.4	0.880	"	22.1		101	70-130			
1,3-Dichlorobenzene	62.5	1.00	"	60.1		104	70-130			
1,4-Dichlorobenzene	55.1	1.00	"	60.1		91.6	70-130			
4-Ethyltoluene	48.7	2.00	"	49.2		99.0	70-130			
Acetone	26.4	2.00	"	23.8		111	70-130			
Benzene	31.3	0.500	"	31.9		98.1	70-130			
Benzyl chloride	48.6	1.00	"	51.8		93.8	70-130			
Bromodichloromethane	62.9	1.00	"	67.0		93.9	70-130			
Bromoform	101	1.00	"	103		97.6	70-130			
2-Hexanone	37.2	2.00	"	41.0		90.9	72-118			
Bromomethane	41.2	1.00	"	38.8		106	70-130			
Carbon disulfide	31.5	1.00	"	31.1		101	70-130			
Carbon Tetrachloride	61.0	1.00	"	62.9		96.9	70-130			
4-Methyl-2-pentanone	38.4	1.00	"	41.0		93.8	61-120			
Chlorobenzene	43.5	1.00	"	46.0		94.5	70-130			
Chloroethane	29.2	1.00	"	26.4		111	70-130			
Chloroform	46.9	1.00	"	48.8		96.1	70-130			
Chloromethane	19.0	1.00	"	20.7		92.2	72-130			
cis-1,2-Dichloroethene	36.9	1.00	"	39.6		93.1	70-130			
cis-1,3-Dichloropropene	45.6	1.00	"	45.4		100	70-130			
Dibromochloromethane	81.9	1.00	"	85.2		96.2	70-130			
Ethanol	18.6	1.00	"	18.8		98.6	60-140			
Ethylbenzene	41.9	1.00	"	43.4		96.4	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

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 B9D2208 - Default Prep - Air

LCS (B9D2208-BS1)

Prepared: 04/22/2019 Analyzed: 04/24/2019

T

Freon 113	79.6	1.00	ug/m ³ Air	76.6		104	70-130
Freon 11	54.9	1.00	"	56.2		97.7	70-130
Freon 12	50.5	1.00	"	49.5		102	70-130
Freon 114	68.3	1.00	"	69.9		97.7	70-130
Heptane	38.7	2.00	"	41.0		94.4	70-130
Hexane	32.8	1.00	"	35.2		93.1	70-130
Hexachlorobutadiene	90.9	2.50	"	107		85.2	70-130
m,p-Xylene	173	2.00	"	174		99.4	70-130
Methyl tert-Butyl Ether	35.0	1.00	"	36.1		97.0	70-130
Methylene Chloride	32.4	1.00	"	34.7		93.2	70-130
Naphthalene	46.0	3.00	"	52.4		87.7	70-130
o-Xylene	45.6	1.00	"	43.4		105	70-130
Styrene	43.4	2.00	"	42.6		102	70-130
Tetrachloroethene	75.1	1.00	"	67.8		111	70-130
Tetrahydrofuran	26.3	1.00	"	29.5		89.3	70-130
Toluene	38.6	2.00	"	37.7		102	70-130
trans-1,2-Dichloroethene	41.2	1.00	"	39.6		104	70-130
trans-1,3-Dichloropropene	44.0	1.00	"	45.4		97.0	70-130
Trichloroethene	51.9	1.00	"	53.7		96.5	70-130
Vinyl acetate	34.0	1.00	"	35.2		96.6	70-130
Vinyl chloride	24.9	1.00	"	25.6		97.6	70-130

Surrogate: 1,2-Dichloroethane-d4	9.82		ppbv	10.0		98.2	70-130
Surrogate: Toluene-d8	9.34		"	10.0		93.4	70-130
Surrogate: 4-Bromofluorobenzene	10.2		"	10.0		102	70-130
Surrogate: 1,2-Dichloroethane-d4	9.82		"	10.0		98.2	70-130
Surrogate: Toluene-d8	9.34		"	10.0		93.4	70-130
Surrogate: 4-Bromofluorobenzene	10.2		"	10.0		102	70-130

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

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
Batch B9D2208 - Default Prep - Air										
LCS Dup (B9D2208-BSD1)					Prepared: 04/22/2019 Analyzed: 04/24/2019					T
1,1,1-Trichloroethane	54.0	1.00	ug/m ³ Air	54.6		98.9	70-130	3.50	25	
Benzene	31.2	2.80	"	31.9		97.7	70-130	0.409	20	
1,1,2,2-Tetrachloroethane	76.2	1.00	"	68.7		111	70-130	5.18	25	
Toluene	39.9	5.00	"	37.7		106	70-130	3.36	20	
1,1,2-Trichloroethane	48.9	1.00	"	54.6		89.6	70-130	1.44	25	
Ethylbenzene	42.9	5.00	"	43.4		98.7	70-130	2.36	20	
1,1-Dichloroethane	37.9	1.00	"	40.5		93.7	70-130	0.744	25	
m,p-Xylene	186	19.0	"	174		107	70-130	7.32	20	
1,1-Dichloroethene	39.1	1.00	"	39.6		98.7	70-130	5.23	25	
o-Xylene	49.4	4.70	"	43.4		114	70-130	8.04	20	
1,2,4-Trichlorobenzene	79.0	5.00	"	74.2		106	70-130	17.6	25	
1,2,4-Trimethylbenzene	56.3	2.00	"	49.2		115	70-125	14.5	25	
1,2-Dichlorobenzene	62.0	1.00	"	60.1		103	70-130	8.48	25	
1,2-Dichloroethane	38.9	1.00	"	40.5		96.2	70-130	5.89	25	
1,2-Dichloropropane	44.7	1.00	"	46.2		96.8	70-130	2.72	25	
1,2-Dibromoethane	75.1	1.00	"	76.8		97.7	70-130	2.70	25	
1,3,5-Trimethylbenzene	58.7	2.00	"	49.2		119	71-130	9.93	25	
1,3 Butadiene	21.3	0.880	"	22.1		96.2	70-130	5.16	25	
1,3-Dichlorobenzene	65.4	1.00	"	60.1		109	70-130	4.51	25	
1,4-Dichlorobenzene	64.0	1.00	"	60.1		106	70-130	15.0	25	
4-Ethyltoluene	52.7	2.00	"	49.2		107	70-130	7.86	25	
Acetone	26.3	2.00	"	23.8		111	70-130	0.541	25	
Benzene	31.2	0.500	"	31.9		97.7	70-130	0.409	25	
Benzyl chloride	53.2	1.00	"	51.8		103	70-130	9.16	25	
Bromodichloromethane	63.3	1.00	"	67.0		94.5	70-130	0.637	25	
Bromoform	106	1.00	"	103		103	70-130	5.19	25	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

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
Batch B9D2208 - Default Prep - Air										
LCS Dup (B9D2208-BSD1)					Prepared: 04/22/2019 Analyzed: 04/24/2019				T	
2-Hexanone	41.8	2.00	ug/m ³ Air	41.0		102	72-118	11.6	25	
Bromomethane	44.1	1.00	"	38.8		114	70-130	6.73	25	
Carbon disulfide	31.3	1.00	"	31.1		101	70-130	0.595	25	
Carbon Tetrachloride	62.7	1.00	"	62.9		99.6	70-130	2.75	25	
Chlorobenzene	46.6	1.00	"	46.0		101	70-130	6.95	25	
4-Methyl-2-pentanone	43.2	1.00	"	41.0		105	61-120	11.6	25	
Chloroethane	29.1	1.00	"	26.4		110	70-130	0.362	25	
Chloroform	48.5	1.00	"	48.8		99.4	70-130	3.38	25	
Chloromethane	15.8	1.00	"	20.7		76.3	72-130	18.9	25	
cis-1,2-Dichloroethene	40.3	1.00	"	39.6		102	70-130	8.93	25	
cis-1,3-Dichloropropene	47.2	1.00	"	45.4		104	70-130	3.52	25	
Dibromochloromethane	83.7	1.00	"	85.2		98.2	70-130	2.06	25	
Ethanol	22.1	1.00	"	18.8		118	60-140	17.5	25	
Ethylbenzene	42.9	1.00	"	43.4		98.7	70-130	2.36	25	
Freon 113	79.6	1.00	"	76.6		104	70-130	0.00	25	
Freon 11	55.9	1.00	"	56.2		99.5	70-130	1.83	25	
Freon 12	49.6	1.00	"	49.5		100	70-130	1.78	25	
Freon 114	71.0	1.00	"	69.9		102	70-130	3.82	25	
Heptane	38.5	2.00	"	41.0		93.9	70-130	0.531	25	
Hexane	32.1	1.00	"	35.2		91.0	70-130	2.28	25	
Hexachlorobutadiene	118	2.50	"	107		111	70-130	26.4	25	QR-02
m,p-Xylene	186	2.00	"	174		107	70-130	7.32	25	
Methyl tert-Butyl Ether	36.3	1.00	"	36.1		101	70-130	3.84	25	
Methylene Chloride	35.1	1.00	"	34.7		101	70-130	8.03	25	
Naphthalene	64.9	3.00	"	52.4		124	70-130	34.2	25	QR-02
o-Xylene	49.4	1.00	"	43.4		114	70-130	8.04	25	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

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
Batch B9D2208 - Default Prep - Air										
LCS Dup (B9D2208-BSD1)					Prepared: 04/22/2019 Analyzed: 04/24/2019					T
Styrene	46.8	2.00	ug/m ³ Air	42.6		110	70-130	7.37	25	
Tetrachloroethene	77.8	1.00	"	67.8		115	70-130	3.46	25	
Tetrahydrofuran	28.5	1.00	"	29.5		96.5	70-130	7.75	25	
Toluene	39.9	2.00	"	37.7		106	70-130	3.36	25	
trans-1,2-Dichloroethene	39.1	1.00	"	39.6		98.7	70-130	5.23	25	
trans-1,3-Dichloropropene	44.4	1.00	"	45.4		97.9	70-130	0.924	25	
Trichloroethene	52.0	1.00	"	53.7		96.7	70-130	0.207	25	
Vinyl acetate	34.6	1.00	"	35.2		98.2	70-130	1.64	25	
Vinyl chloride	23.4	1.00	"	25.6		91.5	70-130	6.45	25	
Surrogate: 1,2-Dichloroethane-d4	10.0		ppbv	10.0		100	70-130			
Surrogate: Toluene-d8	9.57		"	10.0		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	11.2		"	10.0		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	10.0		"	10.0		100	70-130			
Surrogate: Toluene-d8	9.57		"	10.0		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	11.2		"	10.0		112	70-130			

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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

Notes and Definitions

U Sample is Non-Detect.

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

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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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