

August 29, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver CO 80211

**Project Name - DCP Greeley Gas Plant**

**Project Number - [none]**

Attached are your analytical results for DCP Greeley Gas Plant received by Origins Laboratory, Inc. August 28, 2019. This project is associated with Origins project number Y908444-01.

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 Greeley Gas Plant

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01 - 082819	Y908444-01	Water	August 28, 2019 12:31	08/28/2019 15:50
MW02 - 082819	Y908444-02	Water	August 28, 2019 13:48	08/28/2019 15:50
MW03 - 082819	Y908444-03	Water	August 28, 2019 13:34	08/28/2019 15:50
MW04 - 082819	Y908444-04	Water	August 28, 2019 14:00	08/28/2019 15:50
MW05 - 082819	Y908444-05	Water	August 28, 2019 13:21	08/28/2019 15:50
MW06 - 082819	Y908444-06	Water	August 28, 2019 12:45	08/28/2019 15:50
MW07 - 082819	Y908444-07	Water	August 28, 2019 12:18	08/28/2019 15:50
MW08 - 082819	Y908444-08	Water	August 28, 2019 12:06	08/28/2019 15:50

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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y908444 Client: Tasman  
 Client Project ID: Greeley Gas Plant  
 Checklist Completed by: JG Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Date/time completed: 8/28/2019 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply): Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 1.4 °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? <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 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 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)

8/28/19  
 Date/Time Reviewed

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**MW01 - 082819**

**8/28/2019 12:31:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y908444-01 (Water)

**BTEX by EPA 8260D**

Benzene	620	4.00	ug/L	4	B9H2808	KDK	08/28/2019	08/28/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	144	4.00	"	"	"	KDK	"	"	
Xylenes, total	391	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	75.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	90.2 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**MW02 - 082819**

**8/28/2019 1:48:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908444-02 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	4.00	ug/L	4	B9H2808	KDK	08/28/2019	08/28/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	77.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	85.0 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**MW03 - 082819**

**8/28/2019 1:34:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908444-03 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	4.00	ug/L	4	B9H2808	KDK	08/28/2019	08/28/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	76.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	86.0 %	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 Greeley Gas Plant

**MW04 - 082819**

**8/28/2019 2:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908444-04 (Water)**

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9H2806	KDK	08/28/2019	08/29/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	<b>379</b>	4.00	"	4	"	KDK	"	08/29/2019	
1,2-Dibromo-3-chloropropane	ND	5.00	"	1	"	KDK	"	08/29/2019	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	<b>116</b>	1.00	"	"	"	KDK	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U

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 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**MW04 - 082819**

**8/28/2019 2:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908444-04 (Water)**

**VOC by EPA 8260D**

2,2-Dichloropropane	ND	1.00	ug/L	1	B9H2806	KDK	08/28/2019	08/29/2019	U
2-Butanone	ND	5.00	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
2-Hexanone	ND	5.00	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Isopropyltoluene	<b>5.70</b>	1.00	"	"	"	KDK	"	"	
4-Methyl-2-pentanone	ND	5.00	"	"	"	KDK	"	"	U
Acetone	ND	8.00	"	"	"	KDK	"	"	U
Benzene	<b>37.3</b>	1.00	"	"	"	KDK	"	"	
Bromobenzene	ND	1.00	"	"	"	KDK	"	"	U
Bromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromoform	ND	1.00	"	"	"	KDK	"	"	U
Bromomethane	ND	1.00	"	"	"	KDK	"	"	U
Carbon disulfide	ND	5.00	"	"	"	KDK	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	KDK	"	"	U
Chlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
Chloroethane	ND	1.00	"	"	"	KDK	"	"	U
Chloroform	ND	1.00	"	"	"	KDK	"	"	U
Chloromethane	<b>1.37</b>	1.00	"	"	"	KDK	"	"	

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 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**MW04 - 082819**  
**8/28/2019 2:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908444-04 (Water)**

**VOC by EPA 8260D**

cis-1,2-Dichloroethene	ND	1.00	ug/L	1	B9H2806	KDK	08/28/2019	08/29/2019	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Dibromomethane	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	<b>157</b>	1.00	"	"	"	KDK	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	KDK	"	"	U
Iodomethane	ND	10.0	"	"	"	KDK	"	"	U
Isopropylbenzene	<b>32.4</b>	1.00	"	"	"	KDK	"	"	
m,p-Xylene	<b>727</b>	8.00	"	4	"	KDK	"	08/29/2019	
Methylene Chloride	ND	5.00	"	1	"	KDK	"	08/29/2019	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	<b>6.56</b>	4.00	"	"	"	KDK	"	"	
n-Butylbenzene	<b>5.65</b>	1.00	"	"	"	KDK	"	"	
n-Propylbenzene	<b>46.6</b>	1.00	"	"	"	KDK	"	"	
o-Xylene	ND	4.00	"	4	"	KDK	"	08/29/2019	U
sec-Butylbenzene	<b>5.72</b>	1.00	"	1	"	KDK	"	08/29/2019	
Styrene	ND	1.00	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	1.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**MW04 - 082819**  
**8/28/2019 2:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908444-04 (Water)**

**VOC by EPA 8260D**

trans-1,2-Dichloroethene	ND	1.00	ug/L	1	B9H2806	KDK	08/28/2019	08/29/2019	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Trichloroethene	ND	1.00	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	KDK	"	"	U
Vinyl chloride	ND	1.00	"	"	"	KDK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	117 %	70-130				"	"	"	
Surrogate: Toluene-d8	93.8 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	70-130				"	"	"	

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**MW05 - 082819**

**8/28/2019 1:21:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908444-05 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	4.00	ug/L	4	B9H2808	KDK	08/28/2019	08/28/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	76.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	89.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**MW06 - 082819**

**8/28/2019 12:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908444-06 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	4.00	ug/L	4	B9H2808	KDK	08/28/2019	08/28/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	<b>116</b>	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	75.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	88.0 %	70-130			"	"	"	"	

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**MW07 - 082819**

**8/28/2019 12:18:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908444-07 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	4.00	ug/L	4	B9H2808	KDK	08/28/2019	08/28/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	75.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	89.3 %	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 Greeley Gas Plant

**MW08 - 082819**

**8/28/2019 12:06:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908444-08 (Water)**

**BTEX by EPA 8260D**

Benzene	14.2	4.00	ug/L	4	B9H2808	KDK	08/28/2019	08/28/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	75.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	89.1 %	70-130			"	"	"	"	

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 Project Number: [none]  
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**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 B9H2806 - EPA 5030B (Water)**

**Blank (B9H2806-BLK1)**

Prepared: 08/28/2019 Analyzed: 08/29/2019

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L							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
1,1-Dichloropropene	ND	1.00	"							U
1,2,3-Trichlorobenzene	ND	5.00	"							U
1,2,3-Trichloropropane	ND	5.00	"							U
1,2,4-Trichlorobenzene	ND	5.00	"							U
1,2,4-Trimethylbenzene	ND	1.00	"							U
1,2-Dibromo-3-chloropropane	ND	5.00	"							U
1,2-Dibromoethane (EDB)	ND	1.00	"							U
1,2-Dichlorobenzene	ND	1.00	"							U
1,2-Dichloroethane	ND	1.00	"							U
1,2-Dichloropropane	ND	1.00	"							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
1,3-Dichlorobenzene	ND	1.00	"							U
1,3-Dichloropropane	ND	1.00	"							U
1,4-Dichlorobenzene	ND	1.00	"							U
2,2-Dichloropropane	ND	1.00	"							U
2-Butanone	ND	5.00	"							U
2-Chlorotoluene	ND	1.00	"							U
2-Hexanone	ND	5.00	"							U
4-Chlorotoluene	ND	1.00	"							U
4-Isopropyltoluene	ND	1.00	"							U

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**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 B9H2806 - EPA 5030B (Water)**

**Blank (B9H2806-BLK1)**

Prepared: 08/28/2019 Analyzed: 08/29/2019

4-Methyl-2-pentanone	ND	5.00	ug/L							U
Acetone	ND	8.00	"							U
Benzene	ND	1.00	"							U
Bromobenzene	ND	1.00	"							U
Bromochloromethane	ND	1.00	"							U
Bromodichloromethane	ND	1.00	"							U
Bromoform	ND	1.00	"							U
Bromomethane	ND	1.00	"							U
Carbon disulfide	ND	5.00	"							U
Carbon tetrachloride	ND	1.00	"							U
Chlorobenzene	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
Dibromomethane	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Hexachlorobutadiene	ND	5.00	"							U
Iodomethane	ND	10.0	"							U
Isopropylbenzene	ND	1.00	"							U
m,p-Xylene	ND	2.00	"							U
Methylene Chloride	ND	5.00	"							U
Methyl tert-Butyl Ether	ND	1.00	"							U
Naphthalene	ND	4.00	"							U

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**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 B9H2806 - EPA 5030B (Water)**

**Blank (B9H2806-BLK1)**

Prepared: 08/28/2019 Analyzed: 08/29/2019

n-Butylbenzene	ND	1.00	ug/L							U
n-Propylbenzene	ND	1.00	"							U
o-Xylene	ND	1.00	"							U
sec-Butylbenzene	ND	1.00	"							U
Styrene	ND	1.00	"							U
tert-Butylbenzene	ND	1.00	"							U
Tetrachloroethene	ND	1.00	"							U
Toluene	ND	1.00	"							U
trans-1,2-Dichloroethene	ND	1.00	"							U
trans-1,3-Dichloropropene	ND	1.00	"							U
Trichloroethene	ND	1.00	"							U
Trichlorofluoromethane	ND	1.00	"							U
Vinyl chloride	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.5	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		100	70-130			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**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 B9H2806 - EPA 5030B (Water)**

**LCS (B9H2806-BS1)**

Prepared: 08/28/2019 Analyzed: 08/29/2019

1,1,1,2-Tetrachloroethane	46.8	1.00	ug/L	50.0		93.7	70-130			
1,1,1-Trichloroethane	49.0	1.00	"	50.0		98.1	70-130			
1,1,2,2-Tetrachloroethane	48.8	1.00	"	50.0		97.5	70-130			
1,1,2-Trichloroethane	50.4	1.00	"	50.0		101	70-130			
1,1-Dichloroethane	48.7	1.00	"	50.0		97.4	70-130			
1,1-Dichloroethene	39.4	1.00	"	50.0		78.8	70-130			
1,1-Dichloropropene	48.2	1.00	"	50.0		96.5	70-130			
1,2,3-Trichlorobenzene	44.8	5.00	"	50.0		89.6	70-130			
1,2,3-Trichloropropane	49.2	5.00	"	50.0		98.4	70-130			
1,2,4-Trichlorobenzene	44.6	5.00	"	50.0		89.3	70-130			
1,2,4-Trimethylbenzene	49.9	1.00	"	50.0		99.7	70-130			
1,2-Dibromo-3-chloropropane	44.8	5.00	"	50.0		89.5	70-130			
1,2-Dibromoethane (EDB)	50.4	1.00	"	50.0		101	70-130			
1,2-Dichlorobenzene	48.0	1.00	"	50.0		95.9	70-130			
1,2-Dichloroethane	51.0	1.00	"	50.0		102	70-130			
1,2-Dichloropropane	47.6	1.00	"	50.0		95.1	70-130			
1,3,5-Trimethylbenzene	47.1	1.00	"	50.0		94.2	70-130			
1,3-Dichlorobenzene	49.9	1.00	"	50.0		99.9	70-130			
1,3-Dichloropropane	51.1	1.00	"	50.0		102	70-130			
1,4-Dichlorobenzene	47.9	1.00	"	50.0		95.8	70-130			
2,2-Dichloropropane	51.2	1.00	"	50.0		102	70-130			
2-Butanone	232	5.00	"	250		92.9	70-130			
2-Chlorotoluene	47.8	1.00	"	50.0		95.6	70-130			
2-Hexanone	242	5.00	"	250		96.9	70-130			
4-Chlorotoluene	47.9	1.00	"	50.0		95.7	70-130			
4-Isopropyltoluene	52.3	1.00	"	50.0		105	70-130			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**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 B9H2806 - EPA 5030B (Water)**

**LCS (B9H2806-BS1)**

Prepared: 08/28/2019 Analyzed: 08/29/2019

4-Methyl-2-pentanone	243	5.00	ug/L	250		97.4	70-130			
Acetone	212	8.00	"	250		84.6	70-130			
Benzene	46.9	1.00	"	50.0		93.8	70-130			
Bromobenzene	46.7	1.00	"	50.0		93.3	70-130			
Bromochloromethane	46.2	1.00	"	50.0		92.4	70-130			
Bromodichloromethane	50.7	1.00	"	50.0		101	70-130			
Bromoform	47.6	1.00	"	50.0		95.1	70-130			
Bromomethane	57.7	1.00	"	50.0		115	70-130			
Carbon disulfide	31.6	5.00	"	50.0		63.3	70-130			A-01, QM-11
Carbon tetrachloride	49.4	1.00	"	50.0		98.8	70-130			
Chlorobenzene	48.3	1.00	"	50.0		96.7	70-130			
Chloroethane	56.7	1.00	"	50.0		113	70-130			
Chloroform	47.7	1.00	"	50.0		95.5	70-130			
Chloromethane	57.6	1.00	"	50.0		115	70-130			
cis-1,2-Dichloroethene	48.3	1.00	"	50.0		96.6	70-130			
cis-1,3-Dichloropropene	52.4	1.00	"	50.0		105	70-130			
Dibromochloromethane	47.5	1.00	"	50.0		95.1	70-130			
Dibromomethane	47.6	1.00	"	50.0		95.1	70-130			
Ethylbenzene	49.2	1.00	"	50.0		98.3	70-130			
Hexachlorobutadiene	43.3	5.00	"	50.0		86.6	70-130			
Iodomethane	36.2	10.0	"	50.0		72.4	70-130			
Isopropylbenzene	48.1	1.00	"	50.0		96.3	70-130			
m,p-Xylene	84.2	2.00	"	100		84.2	70-130			
Methylene Chloride	41.2	5.00	"	50.0		82.4	70-130			
Methyl tert-Butyl Ether	46.1	1.00	"	50.0		92.3	70-130			
Naphthalene	45.7	4.00	"	50.0		91.3	70-130			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**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 B9H2806 - EPA 5030B (Water)**

**LCS (B9H2806-BS1)**

Prepared: 08/28/2019 Analyzed: 08/29/2019

n-Butylbenzene	43.2	1.00	ug/L	50.0		86.4	70-130			
n-Propylbenzene	42.1	1.00	"	50.0		84.3	70-130			
o-Xylene	46.0	1.00	"	50.0		92.1	70-130			
sec-Butylbenzene	41.3	1.00	"	50.0		82.7	70-130			
Styrene	48.2	1.00	"	50.0		96.4	70-130			
tert-Butylbenzene	45.9	1.00	"	50.0		91.7	70-130			
Tetrachloroethene	48.8	1.00	"	50.0		97.6	70-130			
Toluene	46.0	1.00	"	50.0		91.9	70-130			
trans-1,2-Dichloroethene	45.6	1.00	"	50.0		91.2	70-130			
trans-1,3-Dichloropropene	48.8	1.00	"	50.0		97.6	70-130			
Trichloroethene	51.7	1.00	"	50.0		103	70-130			
Trichlorofluoromethane	50.0	1.00	"	50.0		99.9	70-130			
Vinyl chloride	57.4	1.00	"	50.0		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**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 B9H2806 - EPA 5030B (Water)

Matrix Spike (B9H2806-MS1)	Source: Y908390-01			Prepared: 08/28/2019 Analyzed: 08/29/2019						
1,1,1,2-Tetrachloroethane	45.3	1.00	ug/L	50.0	ND	90.5	70-130			
1,1,1-Trichloroethane	50.3	1.00	"	50.0	ND	101	70-130			
1,1,2,2-Tetrachloroethane	51.0	1.00	"	50.0	ND	102	70-130			
1,1,2-Trichloroethane	49.1	1.00	"	50.0	ND	98.1	70-130			
1,1-Dichloroethane	49.9	1.00	"	50.0	ND	99.9	70-130			
1,1-Dichloroethene	49.8	1.00	"	50.0	ND	99.6	70-130			
1,1-Dichloropropene	50.3	1.00	"	50.0	ND	101	70-130			
1,2,3-Trichlorobenzene	45.8	5.00	"	50.0	0.270	91.0	70-130			
1,2,3-Trichloropropane	48.3	5.00	"	50.0	ND	96.7	70-130			
1,2,4-Trichlorobenzene	46.0	5.00	"	50.0	ND	91.9	70-130			
1,2,4-Trimethylbenzene	50.4	1.00	"	50.0	1.44	98.0	70-130			
1,2-Dibromo-3-chloropropane	45.8	5.00	"	50.0	ND	91.5	70-130			
1,2-Dibromoethane (EDB)	49.5	1.00	"	50.0	ND	99.0	70-130			
1,2-Dichlorobenzene	48.3	1.00	"	50.0	ND	96.6	70-130			
1,2-Dichloroethane	49.2	1.00	"	50.0	ND	98.5	70-130			
1,2-Dichloropropane	48.7	1.00	"	50.0	ND	97.3	70-130			
1,3,5-Trimethylbenzene	46.8	1.00	"	50.0	0.350	92.9	70-130			
1,3-Dichlorobenzene	49.8	1.00	"	50.0	ND	99.5	70-130			
1,3-Dichloropropane	49.9	1.00	"	50.0	ND	99.8	70-130			
1,4-Dichlorobenzene	47.4	1.00	"	50.0	ND	94.9	70-130			
2,2-Dichloropropane	52.5	1.00	"	50.0	ND	105	70-130			
2-Butanone	243	5.00	"	250	ND	97.4	70-130			
2-Chlorotoluene	47.2	1.00	"	50.0	ND	94.5	70-130			
2-Hexanone	245	5.00	"	250	ND	98.1	70-130			
4-Chlorotoluene	47.2	1.00	"	50.0	0.270	93.9	70-130			
4-Isopropyltoluene	51.0	1.00	"	50.0	ND	102	70-130			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**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 B9H2806 - EPA 5030B (Water)

Matrix Spike (B9H2806-MS1)	Source: Y908390-01			Prepared: 08/28/2019 Analyzed: 08/29/2019						
4-Methyl-2-pentanone	244	5.00	ug/L	250	ND	97.7	70-130			
Acetone	233	8.00	"	250	5.31	91.1	70-130			
Benzene	49.6	1.00	"	50.0	0.080	99.0	70-130			
Bromobenzene	47.3	1.00	"	50.0	ND	94.6	70-130			
Bromochloromethane	48.3	1.00	"	50.0	ND	96.6	70-130			
Bromodichloromethane	48.4	1.00	"	50.0	ND	96.8	70-130			
Bromoform	46.2	1.00	"	50.0	ND	92.4	70-130			
Bromomethane	47.6	1.00	"	50.0	ND	95.1	70-130			
Carbon disulfide	52.4	5.00	"	50.0	ND	105	70-130			
Carbon tetrachloride	50.0	1.00	"	50.0	ND	100	70-130			
Chlorobenzene	48.6	1.00	"	50.0	ND	97.1	70-130			
Chloroethane	45.1	1.00	"	50.0	ND	90.2	70-130			
Chloroform	49.1	1.00	"	50.0	0.740	96.7	70-130			
Chloromethane	47.2	1.00	"	50.0	ND	94.4	70-130			
cis-1,2-Dichloroethene	50.5	1.00	"	50.0	ND	101	70-130			
cis-1,3-Dichloropropene	52.0	1.00	"	50.0	ND	104	70-130			
Dibromochloromethane	47.7	1.00	"	50.0	ND	95.4	70-130			
Dibromomethane	49.2	1.00	"	50.0	ND	98.4	70-130			
Ethylbenzene	47.7	1.00	"	50.0	0.200	95.1	70-130			
Hexachlorobutadiene	45.4	5.00	"	50.0	0.280	90.3	70-130			
Iodomethane	51.1	10.0	"	50.0	ND	102	70-130			
Isopropylbenzene	47.2	1.00	"	50.0	ND	94.5	70-130			
m,p-Xylene	83.4	2.00	"	100	0.840	82.6	70-130			
Methylene Chloride	44.4	5.00	"	50.0	3.51	81.7	70-130			
Methyl tert-Butyl Ether	47.8	1.00	"	50.0	ND	95.7	70-130			
Naphthalene	46.3	4.00	"	50.0	0.460	91.7	70-130			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**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 B9H2806 - EPA 5030B (Water)**

<b>Matrix Spike (B9H2806-MS1)</b>	<b>Source: Y908390-01</b>			<b>Prepared: 08/28/2019 Analyzed: 08/29/2019</b>						
n-Butylbenzene	42.5	1.00	ug/L	50.0	ND	85.0	70-130			
n-Propylbenzene	43.0	1.00	"	50.0	0.120	85.9	70-130			
o-Xylene	46.8	1.00	"	50.0	ND	93.5	70-130			
sec-Butylbenzene	42.0	1.00	"	50.0	0.780	82.4	70-130			
Styrene	47.5	1.00	"	50.0	ND	95.1	70-130			
tert-Butylbenzene	46.0	1.00	"	50.0	0.170	91.7	70-130			
Tetrachloroethene	48.6	1.00	"	50.0	0.290	96.5	70-130			
Toluene	46.9	1.00	"	50.0	0.150	93.5	70-130			
trans-1,2-Dichloroethene	49.9	1.00	"	50.0	ND	99.9	70-130			
trans-1,3-Dichloropropene	47.3	1.00	"	50.0	ND	94.6	70-130			
Trichloroethene	47.6	1.00	"	50.0	ND	95.2	70-130			
Trichlorofluoromethane	45.4	1.00	"	50.0	ND	90.9	70-130			
Vinyl chloride	45.6	1.00	"	50.0	ND	91.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**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 B9H2806 - EPA 5030B (Water)**

Matrix Spike Dup (B9H2806-MSD1)	Source: Y908390-01			Prepared: 08/28/2019 Analyzed: 08/29/2019						
1,1,1,2-Tetrachloroethane	52.5	1.00	ug/L	50.0	ND	105	70-130	14.8	20	
1,1,1-Trichloroethane	54.8	1.00	"	50.0	ND	110	70-130	8.62	20	
1,1,2,2-Tetrachloroethane	57.1	1.00	"	50.0	ND	114	70-130	11.3	20	
1,1,2-Trichloroethane	55.2	1.00	"	50.0	ND	110	70-130	11.7	20	
1,1-Dichloroethane	55.0	1.00	"	50.0	ND	110	70-130	9.61	20	
1,1-Dichloroethene	56.1	1.00	"	50.0	ND	112	70-130	11.8	20	
1,1-Dichloropropene	54.0	1.00	"	50.0	ND	108	70-130	7.04	20	
1,2,3-Trichlorobenzene	55.0	5.00	"	50.0	0.270	109	70-130	18.3	20	
1,2,3-Trichloropropane	54.5	5.00	"	50.0	ND	109	70-130	12.0	20	
1,2,4-Trichlorobenzene	54.0	5.00	"	50.0	ND	108	70-130	16.2	20	
1,2,4-Trimethylbenzene	56.7	1.00	"	50.0	1.44	110	70-130	11.7	20	
1,2-Dibromo-3-chloropropane	51.8	5.00	"	50.0	ND	104	70-130	12.5	20	
1,2-Dibromoethane (EDB)	54.5	1.00	"	50.0	ND	109	70-130	9.58	20	
1,2-Dichlorobenzene	54.9	1.00	"	50.0	ND	110	70-130	12.7	20	
1,2-Dichloroethane	53.1	1.00	"	50.0	ND	106	70-130	7.58	20	
1,2-Dichloropropane	52.7	1.00	"	50.0	ND	105	70-130	7.88	20	
1,3,5-Trimethylbenzene	52.8	1.00	"	50.0	0.350	105	70-130	12.2	20	
1,3-Dichlorobenzene	56.7	1.00	"	50.0	ND	113	70-130	13.1	20	
1,3-Dichloropropane	55.1	1.00	"	50.0	ND	110	70-130	10.0	20	
1,4-Dichlorobenzene	54.2	1.00	"	50.0	ND	108	70-130	13.3	20	
2,2-Dichloropropane	56.4	1.00	"	50.0	ND	113	70-130	7.22	20	
2-Butanone	266	5.00	"	250	ND	106	70-130	8.96	20	
2-Chlorotoluene	54.4	1.00	"	50.0	ND	109	70-130	14.1	20	
2-Hexanone	270	5.00	"	250	ND	108	70-130	9.49	20	
4-Chlorotoluene	53.7	1.00	"	50.0	0.270	107	70-130	12.8	20	
4-Isopropyltoluene	58.0	1.00	"	50.0	ND	116	70-130	12.9	20	

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP Greeley Gas Plant

**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 B9H2806 - EPA 5030B (Water)

Matrix Spike Dup (B9H2806-MSD1)	Source: Y908390-01			Prepared: 08/28/2019 Analyzed: 08/29/2019						
4-Methyl-2-pentanone	271	5.00	ug/L	250	ND	109	70-130	10.5	20	
Acetone	256	8.00	"	250	5.31	100	70-130	9.28	20	
Benzene	53.2	1.00	"	50.0	0.080	106	70-130	7.16	20	
Bromobenzene	54.0	1.00	"	50.0	ND	108	70-130	13.2	20	
Bromochloromethane	52.2	1.00	"	50.0	ND	104	70-130	7.76	20	
Bromodichloromethane	53.4	1.00	"	50.0	ND	107	70-130	9.74	20	
Bromoform	53.2	1.00	"	50.0	ND	106	70-130	14.1	20	
Bromomethane	59.5	1.00	"	50.0	ND	119	70-130	22.3	20	QR-02
Carbon disulfide	60.3	5.00	"	50.0	ND	121	70-130	14.1	20	
Carbon tetrachloride	54.6	1.00	"	50.0	ND	109	70-130	8.74	20	
Chlorobenzene	53.6	1.00	"	50.0	ND	107	70-130	9.88	20	
Chloroethane	52.9	1.00	"	50.0	ND	106	70-130	15.9	20	
Chloroform	53.2	1.00	"	50.0	0.740	105	70-130	8.09	20	
Chloromethane	55.9	1.00	"	50.0	ND	112	70-130	16.9	20	
cis-1,2-Dichloroethene	55.1	1.00	"	50.0	ND	110	70-130	8.60	20	
cis-1,3-Dichloropropene	57.6	1.00	"	50.0	ND	115	70-130	10.3	20	
Dibromochloromethane	53.7	1.00	"	50.0	ND	107	70-130	11.8	20	
Dibromomethane	53.2	1.00	"	50.0	ND	106	70-130	7.87	20	
Ethylbenzene	53.5	1.00	"	50.0	0.200	107	70-130	11.5	20	
Hexachlorobutadiene	53.6	5.00	"	50.0	0.280	107	70-130	16.5	20	
Iodomethane	57.0	10.0	"	50.0	ND	114	70-130	10.8	20	
Isopropylbenzene	53.3	1.00	"	50.0	ND	107	70-130	12.0	20	
m,p-Xylene	93.7	2.00	"	100	0.840	92.8	70-130	11.6	20	
Methylene Chloride	49.7	5.00	"	50.0	3.51	92.4	70-130	11.3	20	
Methyl tert-Butyl Ether	52.0	1.00	"	50.0	ND	104	70-130	8.41	20	
Naphthalene	55.4	4.00	"	50.0	0.460	110	70-130	17.9	20	

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**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 B9H2806 - EPA 5030B (Water)**

Matrix Spike Dup (B9H2806-MSD1)	Source: Y908390-01			Prepared: 08/28/2019 Analyzed: 08/29/2019						
n-Butylbenzene	48.7	1.00	ug/L	50.0	ND	97.4	70-130	13.6	20	
n-Propylbenzene	48.8	1.00	"	50.0	0.120	97.3	70-130	12.5	20	
o-Xylene	53.0	1.00	"	50.0	ND	106	70-130	12.5	20	
sec-Butylbenzene	48.2	1.00	"	50.0	0.780	94.9	70-130	13.8	20	
Styrene	53.7	1.00	"	50.0	ND	107	70-130	12.2	20	
tert-Butylbenzene	52.7	1.00	"	50.0	0.170	105	70-130	13.5	20	
Tetrachloroethene	52.0	1.00	"	50.0	0.290	103	70-130	6.77	20	
Toluene	50.7	1.00	"	50.0	0.150	101	70-130	7.78	20	
trans-1,2-Dichloroethene	55.3	1.00	"	50.0	ND	111	70-130	10.2	20	
trans-1,3-Dichloropropene	52.8	1.00	"	50.0	ND	106	70-130	11.0	20	
Trichloroethene	51.1	1.00	"	50.0	ND	102	70-130	6.99	20	
Trichlorofluoromethane	52.7	1.00	"	50.0	ND	105	70-130	14.7	20	
Vinyl chloride	54.8	1.00	"	50.0	ND	110	70-130	18.3	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.9	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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**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 B9H2808 - EPA 5030B (Water)**

**Blank (B9H2808-BLK1)**

Prepared: 08/28/2019 Analyzed: 08/28/2019

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		76.4	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5		87.3	70-130			

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**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 B9H2808 - EPA 5030B (Water)

**LCS (B9H2808-BS1)**

Prepared: 08/28/2019 Analyzed: 08/28/2019

Benzene	48.7	1.00	ug/L	50.0		97.3	70-130			
Toluene	51.2	1.00	"	50.0		102	70-130			
Ethylbenzene	43.7	1.00	"	50.0		87.4	70-130			
m,p-Xylene	87.4	2.00	"	100		87.4	70-130			
o-Xylene	43.6	1.00	"	50.0		87.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	46		"	62.5		73.4	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	56		"	62.5		89.0	70-130			

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**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 B9H2808 - EPA 5030B (Water)**

<b>Matrix Spike (B9H2808-MS1)</b>	<b>Source: Y908434-01</b>			<b>Prepared: 08/28/2019 Analyzed: 08/28/2019</b>						
Benzene	47.3	1.00	ug/L	50.0	ND	94.6	70-130			
Toluene	50.2	1.00	"	50.0	ND	100	70-130			
Ethylbenzene	43.7	1.00	"	50.0	ND	87.4	70-130			
m,p-Xylene	86.3	2.00	"	100	ND	86.3	70-130			
o-Xylene	43.4	1.00	"	50.0	ND	86.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	45		"	62.5		71.7	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5		88.4	70-130			

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**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 B9H2808 - EPA 5030B (Water)**

Matrix Spike Dup (B9H2808-MSD1)	Source: Y908434-01			Prepared: 08/28/2019 Analyzed: 08/28/2019						
Benzene	48.1	1.00	ug/L	50.0	ND	96.1	70-130	1.62	20	
Toluene	51.2	1.00	"	50.0	ND	102	70-130	2.07	20	
Ethylbenzene	43.6	1.00	"	50.0	ND	87.2	70-130	0.160	20	
m,p-Xylene	87.4	2.00	"	100	ND	87.4	70-130	1.16	20	
o-Xylene	44.4	1.00	"	50.0	ND	88.7	70-130	2.16	20	
Surrogate: 1,2-Dichloroethane-d4	46		"	62.5		73.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.6	70-130			

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Denver CO 80211

Brian Humphrey  
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### Notes and Definitions

- U Sample is Non-Detect.
- 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.
- QM-11 Spike recovery was outside acceptance limits for LCS, however samples are non-detect for this compound.
- A-01 LCS outside % recovery limits; MS/MSD % recoveries in control
- 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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