



August 05, 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. July 29, 2019. This project is associated with Origins project number Y907438-01.

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 Greeley Gas Plant

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y907438-01	Water	July 29, 2019 11:23	07/29/2019 13:40
MW02	Y907438-02	Water	July 29, 2019 11:39	07/29/2019 13:40
MW03	Y907438-03	Water	July 29, 2019 11:22	07/29/2019 13:40
MW04	Y907438-04	Water	July 29, 2019 11:31	07/29/2019 13:40
MW05	Y907438-05	Water	July 29, 2019 10:58	07/29/2019 13:40
MW06	Y907438-06	Water	July 29, 2019 10:59	07/29/2019 13:40
MW07	Y907438-07	Water	July 29, 2019 11:12	07/29/2019 13:40
MW08	Y907438-08	Water	July 29, 2019 11:11	07/29/2019 13:40

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

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page 1 of 1

1907438

Client: DCP / Tasman
Address: 6855 W 119th Ave Broomfield, CO
Telephone Number: 484-794-3328
Email Address: bhumphrey@tasman-geo.com

Project Manager: Brian Humphrey
Project Name: Greeley Gas Plant
Project Number: n/a
Samples Collected By: Brian G. Morgan S.

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 Summ #	Other		
MW01	7/29/19	1123	3	X				X				GTEx	1
MW02		1134											2
MW03		1122											3
MW04		1131											4
MW05		1058											5
MW06		1059											6
MW07		1112											7
MW08		1111											8
													9
													10

Relinquished By: [Signature] Date: 7/29/19 Time: 1340
Relinquished By: [Signature] Date: 7/29/19 Time: 1340

Received By: [Signature] Date: 07/29/19 Time: 1340
Received By: [Signature] Date: [] Time: []

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

6.2°C

Date Results Needed

Origins Laboratory, Inc.

[Signature]

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 907438

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: 7/29/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 6.2 °C _____ / _____ °C _____ / _____ °C (Describe) _____

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (If so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (If so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analyses or samples with HTE 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 Na ₂ CO ₃ +NaOH, ZnAc ₂ +NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

7/30/19
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 Greeley Gas Plant

MW01

7/29/2019 11:23:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907438-01 (Water)

BTEX by EPA 8260D

Benzene	417	10.0	ug/L	10	B9G3008	KDK	07/30/2019	07/31/2019
Toluene	28.9	1.00	"	1	"	KDK	"	07/30/2019
Ethylbenzene	224	10.0	"	10	"	KDK	"	07/31/2019
Xylenes, total	666	10.0	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	93.0 %	70-130	"	"	07/30/2019
Surrogate: Toluene-d8	108 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

MW02

7/29/2019 11:39:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y907438-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G3008	KDK	07/30/2019	07/31/2019	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	92.3 %	70-130			"	"	07/30/2019
Surrogate: Toluene-d8	102 %	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

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

MW03

7/29/2019 11:22:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y907438-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G3008	KDK	07/30/2019	07/31/2019	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			"	"	07/30/2019
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	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

7/29/2019 11:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y907438-04 (Water)

BTEX by EPA 8260D

Benzene	191	20.0	ug/L	20	B9G3008	KDK	07/30/2019	07/30/2019	
Toluene	ND	20.0	"	"	"	KDK	"	"	U
Ethylbenzene	274	20.0	"	"	"	KDK	"	"	
Xylenes, total	2300	20.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.0 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	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

MW05

7/29/2019 10:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y907438-05 (Water)

BTEX by EPA 8260D

Benzene	10.8	1.00	ug/L	1	B9G3008	KDK	07/30/2019	07/30/2019	
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	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	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

MW06

7/29/2019 10:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y907438-06 (Water)

BTEX by EPA 8260D

Benzene	194	1.00	ug/L	1	B9G3008	KDK	07/30/2019	07/30/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	258	10.0	"	10	"	KDK	"	07/31/2019	
Xylenes, total	2190	10.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130			"	"	07/30/2019
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"

Origins Laboratory, Inc.



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Denver CO 80211

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

MW07

7/29/2019 11:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y907438-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9G3008	KDK	07/30/2019	07/30/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	07/31/2019	U

Surrogate: 1,2-Dichloroethane-d4	92.7 %	70-130			"	"	07/30/2019
Surrogate: Toluene-d8	103 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	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

7/29/2019 11:11:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y907438-08 (Water)

BTEX by EPA 8260D

Benzene	9.57	1.00	ug/L	1	B9G3008	KDK	07/30/2019	07/30/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.5 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	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

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 B9G3008 - EPA 5030B (Water)

Blank (B9G3008-BLK1)

Prepared: 07/30/2019 Analyzed: 07/30/2019

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	59		"	62.5		94.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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

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 B9G3008 - EPA 5030B (Water)

LCS (B9G3008-BS1)

Prepared: 07/30/2019 Analyzed: 07/30/2019

Benzene	52.4	1.00	ug/L	50.0		105	70-130			
Toluene	53.5	1.00	"	50.0		107	70-130			
Ethylbenzene	53.5	1.00	"	50.0		107	70-130			
m,p-Xylene	106	2.00	"	100		106	70-130			
o-Xylene	53.9	1.00	"	50.0		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.5	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
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 B9G3008 - EPA 5030B (Water)

Matrix Spike (B9G3008-MS1)		Source: Y907430-07			Prepared: 07/30/2019 Analyzed: 07/30/2019					
Benzene	61.0	1.00	ug/L	50.0	ND	122	70-130			
Toluene	62.0	1.00	"	50.0	ND	124	70-130			
Ethylbenzene	62.0	1.00	"	50.0	0.120	124	70-130			
m,p-Xylene	122	2.00	"	100	0.330	121	70-130			
o-Xylene	62.3	1.00	"	50.0	0.170	124	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		90.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	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 B9G3008 - EPA 5030B (Water)

Matrix Spike Dup (B9G3008-MSD1)		Source: Y907430-07			Prepared: 07/30/2019 Analyzed: 07/30/2019					
Benzene	60.1	1.00	ug/L	50.0	ND	120	70-130	1.40	20	
Toluene	60.2	1.00	"	50.0	ND	120	70-130	2.93	20	
Ethylbenzene	60.4	1.00	"	50.0	0.120	121	70-130	2.55	20	
m,p-Xylene	120	2.00	"	100	0.330	119	70-130	1.55	20	
o-Xylene	61.8	1.00	"	50.0	0.170	123	70-130	0.757	20	
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		90.5	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP Greeley Gas Plant

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