



January 06, 2020

DCP Midstream

Matt Pickett

3026 4th Ave.

Greeley, CO 80631 CO 80631

Project Name - O'Connor CND

Project Number - [none]

Attached are your analytical results for O'Connor CND received by Origins Laboratory, Inc. December 26, 2019. This project is associated with Origins project number Y912423-01.

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

DCP Midstream

3026 4th Ave.

Greeley, CO 80631CO

80631

Matt Pickett

Project Number: [none]

Project: O'Connor CND

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
OC1 CND #2	Y912423-01	Soil	December 26, 2019 10:00	12/26/2019 11:20
OC1 CND #3	Y912423-02	Soil	December 26, 2019 10:00	12/26/2019 11:20

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President



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Project Number: [none]

Project: O'Connor CND

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y912423

Client: DCP Midstream  
Client Project ID: O'Connor CND

Checklist Completed by: JS

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

Date/time completed: 12/26/19

Airbill #: 1517

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

Cooler Number/Temperature: 1 / 6.6 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		Same Day
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 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) CP

12/27/19  
Date/Time Reviewed

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

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Greeley, CO 80631CO 80631

Matt Pickett

Project Number: [none]

Project: O'Connor CND

## OC1 CND #2

12/26/2019 10:00:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y912423-01 (Soil)

### BTEX by EPA 8260D

Benzene	18.0	0.498	mg/kg	250	B9L2702	ZZZ	12/27/2019	12/30/2019	
Toluene	47.6	0.498	"	"	"	ZZZ	"	"	
Ethylbenzene	2.93	0.050	"	25	"	KDK	"	12/27/2019	
Xylenes, total	22.0	0.050	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4

103 % 70-130

"

"

"

Surrogate: Toluene-d8

110 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

120 % 70-130

"

"

"

### Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9L2703	TEM	12/27/2019	12/27/2019	U
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Surrogate: o-Terphenyl

73.6 % 50-150

"

"

"

Origins Laboratory, Inc.



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Matt Pickett  
Project Number: [none]  
Project: O'Connor CND

## OC1 CND #3

12/26/2019 10:00:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y912423-02 (Soil)

### BTEX by EPA 8260D

Benzene	14.2	0.498	mg/kg	250	B9L2702	ZZZ	12/27/2019	12/30/2019	
Toluene	37.9	0.498	"	"	"	ZZZ	"	"	
Ethylbenzene	2.86	0.050	"	25	"	KDK	"	12/27/2019	
Xylenes, total	20.9	0.050	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	115 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"	

### Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9L2703	TEM	12/27/2019	12/27/2019	U
Surrogate: o-Terphenyl	69.3 %	50-150			"	"	"		

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Matt Pickett

Project Number: [none]

Project: O'Connor CND

**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 B9L2702 - EPA 5030 (soil)**

**Blank (B9L2702-BLK1)**

Prepared: 12/27/2019 Analyzed: 12/27/2019

Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	101		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.5		70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125	111		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 B9L2702 - EPA 5030 (soil)**

**LCS (B9L2702-BS1)**

Prepared: 12/27/2019 Analyzed: 12/27/2019

Benzene	0.099	0.002	mg/kg	0.100		99.1	70-130			
Toluene	0.100	0.002	"	0.100		100	70-130			
Ethylbenzene	0.094	0.002	"	0.100		94.5	70-130			
m,p-Xylene	0.189	0.004	"	0.200		94.5	70-130			
o-Xylene	0.092	0.002	"	0.100		92.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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 B9L2702 - EPA 5030 (soil)

Matrix Spike (B9L2702-MS1)		Source: Y912426-01			Prepared: 12/27/2019 Analyzed: 12/27/2019					
Benzene	0.089	0.002	mg/kg	0.100	ND	88.6	70-130			
Toluene	0.094	0.002	"	0.100	ND	94.4	70-130			
Ethylbenzene	0.087	0.002	"	0.100	ND	87.2	70-130			
m,p-Xylene	0.177	0.004	"	0.200	ND	88.6	70-130			
o-Xylene	0.088	0.002	"	0.100	ND	88.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		119	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 B9L2702 - EPA 5030 (soil)**

Matrix Spike Dup (B9L2702-MSD1)		Source: Y912426-01			Prepared: 12/27/2019 Analyzed: 12/27/2019					
Benzene	0.083	0.002	mg/kg	0.100	ND	83.3	70-130	6.24	20	
Toluene	0.094	0.002	"	0.100	ND	93.8	70-130	0.638	20	
Ethylbenzene	0.088	0.002	"	0.100	ND	87.8	70-130	0.617	20	
m,p-Xylene	0.177	0.004	"	0.200	ND	88.7	70-130	0.135	20	
o-Xylene	0.086	0.002	"	0.100	ND	86.4	70-130	2.11	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	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 B9L2703 - EPA 3580**

**Blank (B9L2703-BLK1)**

Prepared: 12/27/2019 Analyzed: 12/27/2019

Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	19		"	25.0		74.6	50-150			

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Matt Pickett

Project Number: [none]

Project: O'Connor CND

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9L2703 - EPA 3580

#### LCS (B9L2703-BS1)

Prepared: 12/27/2019 Analyzed: 12/27/2019

Diesel (C10-C28)	873	50.0	mg/kg	1000		87.3	70-130			
Surrogate: o-Terphenyl	44		"	50.0		87.6	50-150			

Origins Laboratory, Inc.



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Project Number: [none]

Project: O'Connor CND

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9L2703 - EPA 3580

Matrix Spike (B9L2703-MS1)		Source: Y912420-01			Prepared: 12/27/2019 Analyzed: 12/27/2019					
Diesel (C10-C28)	924	50.0	mg/kg	1000	ND	92.4	70-130			
Surrogate: o-Terphenyl	43		"	50.0		85.1	50-150			

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## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9L2703 - EPA 3580

Matrix Spike Dup (B9L2703-MSD1)		Source: Y912420-01			Prepared: 12/27/2019 Analyzed: 12/27/2019					
Diesel (C10-C28)	919	50.0	mg/kg	1000	ND	91.9	70-130	0.546	35	
Surrogate: o-Terphenyl	43		"	50.0		86.7	50-150			

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Project Number: [none]

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### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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