

December 16, 2019

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 12, 2019. This project is associated with Origins project number Y912186-01.

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



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
CND #1	Y912186-01	Soil	December 12, 2019 11:30	12/12/2019 13:05
CND #2	Y912186-02	Soil	December 12, 2019 11:35	12/12/2019 13:05
CND #3	Y912186-03	Soil	December 12, 2019 11:40	12/12/2019 13:05

Origins Laboratory, Inc.



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

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

**Sample Receipt Checklist**

Origins Work Order: Y912186 Client: DCP Midstream  
 Client Project ID: O'Connor CND

Checklist Completed by: JBE Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Date/time completed: 12-12-19 1323 Airbill #: \_\_\_\_\_

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

Cooler Number/Temperature: 1, 5.4 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °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> ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			X	
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			X	
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.

JP  
Reviewed by (Project Manager)
12/13/19  
Date/Time Reviewed

Origins Laboratory, Inc.



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 Project Number: [none]  
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**CND #1**  
**12/12/2019 11:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y912186-01 (Soil)**

**BTEX by EPA 8260D**

Benzene	0.003	0.002	mg/kg	1	B9L1201	ZZZ	12/12/2019	12/13/2019	
Toluene	0.004	0.002	"	"	"	ZZZ	"	"	
Ethylbenzene	ND	0.002	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.002	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	130 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	80.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.4 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9L1202	TEM	12/12/2019	12/12/2019	U
Surrogate: o-Terphenyl	82.2 %	50-150			"	"	"	"	

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 Project Number: [none]  
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**CND #2**  
**12/12/2019 11:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y912186-02 (Soil)**

**BTEX by EPA 8260D**

Benzene	19.6	0.498	mg/kg	250	B9L1201	KDK	12/12/2019	12/13/2019	
Toluene	84.4	0.498	"	"	"	KDK	"	"	
Ethylbenzene	6.99	0.050	"	25	"	KDK	"	12/13/2019	
Xylenes, total	72.6	0.498	"	250	"	KDK	"	12/13/2019	

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"		12/13/2019	
Surrogate: Toluene-d8	139 %	70-130			"	"		" S-04	
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"		"	

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

Diesel (C10-C28)	69.2	50.0	mg/kg	1	B9L1202	TEM	12/12/2019	12/12/2019	
Surrogate: o-Terphenyl	88.2 %	50-150			"	"		"	

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

**CND #3**  
**12/12/2019 11:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y912186-03 (Soil)**

**BTEX by EPA 8260D**

Benzene	1.54	0.050	mg/kg	25	B9L1201	KDK	12/12/2019	12/13/2019	
Toluene	5.58	0.050	"	"	"	KDK	"	"	
Ethylbenzene	0.626	0.050	"	"	"	KDK	"	"	
Xylenes, total	4.52	0.050	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9L1202	TEM	12/12/2019	12/12/2019	U
Surrogate: o-Terphenyl	79.7 %	50-150			"	"	"	"	

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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
<b>Batch B9L1201 - EPA 5030 (soil)</b>										
<b>Blank (B9L1201-BLK1)</b>										
					Prepared: 12/12/2019 Analyzed: 12/12/2019					
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		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.8	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 B9L1201 - EPA 5030 (soil)**

**LCS (B9L1201-BS1)**

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

Benzene	0.101	0.002	mg/kg	0.100		101	70-130			
Toluene	0.096	0.002	"	0.100		96.5	70-130			
Ethylbenzene	0.095	0.002	"	0.100		95.2	70-130			
m,p-Xylene	0.192	0.004	"	0.200		96.2	70-130			
o-Xylene	0.094	0.002	"	0.100		94.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.3	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 B9L1201 - EPA 5030 (soil)

Matrix Spike (B9L1201-MS1)	Source: Y912176-01			Prepared: 12/12/2019 Analyzed: 12/12/2019						
Benzene	0.113	0.002	mg/kg	0.100	ND	113	70-130			
Toluene	0.105	0.002	"	0.100	ND	105	70-130			
Ethylbenzene	0.108	0.002	"	0.100	ND	108	70-130			
m,p-Xylene	0.222	0.004	"	0.200	ND	111	70-130			
o-Xylene	0.106	0.002	"	0.100	ND	106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	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 B9L1201 - EPA 5030 (soil)**

Matrix Spike Dup (B9L1201-MSD1)	Source: Y912176-01			Prepared: 12/12/2019 Analyzed: 12/12/2019						
Benzene	0.083	0.002	mg/kg	0.100	ND	82.9	70-130	30.4	20	QR-03
Toluene	0.077	0.002	"	0.100	ND	77.1	70-130	31.0	20	QR-03
Ethylbenzene	0.074	0.002	"	0.100	ND	74.5	70-130	37.1	20	QR-03
m,p-Xylene	0.150	0.004	"	0.200	ND	75.2	70-130	38.4	20	QR-03
o-Xylene	0.076	0.002	"	0.100	ND	76.4	70-130	32.5	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		129	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	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
<b>Batch B9L1202 - EPA 3580</b>										
<b>Blank (B9L1202-BLK1)</b>										
					Prepared: 12/12/2019 Analyzed: 12/12/2019					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	19		"	25.0		76.7	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 B9L1202 - EPA 3580**

**LCS (B9L1202-BS1)**

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

Diesel (C10-C28)	943	50.0	mg/kg	1000		94.3	70-130			
Surrogate: o-Terphenyl	47		"	50.0		93.0	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 B9L1202 - EPA 3580**

<b>Matrix Spike (B9L1202-MS1)</b>	<b>Source: Y912176-01</b>			Prepared: 12/12/2019 Analyzed: 12/12/2019						
Diesel (C10-C28)	954	50.0	mg/kg	1000	ND	95.4	70-130			
Surrogate: o-Terphenyl	44		"	50.0		88.0	50-150			

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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 B9L1202 - EPA 3580**

<b>Matrix Spike Dup (B9L1202-MSD1)</b>	<b>Source: Y912176-01</b>			<b>Prepared: 12/12/2019 Analyzed: 12/12/2019</b>						
Diesel (C10-C28)	805	50.0	mg/kg	1000	ND	80.5	70-130	16.9	35	
Surrogate: o-Terphenyl	37		"	50.0		73.9	50-150			

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### Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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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