

December 03, 2019

Olsson Associates

Trent Watne

1525 Raleigh St, Suite 400

Denver CO 80204

Project Name - Confluence - 70 Ranch East Post Drill Project Number - 017-0701

Attached are your analytical results for Confluence - 70 Ranch East Post Drill received by Origins Laboratory, Inc. November 20, 2019. This project is associated with Origins project number Y911345-01.

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



Olsson Associates
1525 Raleigh St, Suite 400
Denver CO 80204

Trent Watne
Project Number: 017-0701
Project: Confluence - 70 Ranch East Post Drill

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TH 0017542A	Y911345-01	Water	November 20, 2019 11:15	11/20/2019 13:30

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Olsson Associates
 1525 Raleigh St, Suite 400
 Denver CO 80204

Trent Watne
 Project Number: 017-0701
 Project: Confluence - 70 Ranch East Post Drill

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y911345

Client: Olsson
 Client Project ID: Confluence 70 Ranch

Checklist Completed by: JG

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Date/time completed: 11/20/2019

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

Cooler Number/Temperature: 1 / 3.9 °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 ^{(1)?}	<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 ^{(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 (Project Manager) MP Date/Time Reviewed 11/21/19

Origins Laboratory, Inc.



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Trent Watne
 Project Number: 017-0701
 Project: Confluence - 70 Ranch East Post Drill

TH 0017542A
 11/20/2019 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
 Y911345-01 (Water)

Alkalinity by SM 2320B

Alkalinity, Total as CaCO ₃	172	4.00	mg/L	1	1941715	RXB5	11/20/2019	11/23/2019	
Bicarbonate alkalinity (CaCO ₃)	172	4.00	"	"	"	RXB5	"	"	
Carbonate alkalinity (CaCO ₃)	ND	4.00	"	"	"	RXB5	"	"	U

Anions by EPA 300.0

Bromide	0.537	0.200	mg/L	1	1941925	LXA2	"	11/22/2019	
Chloride	69.0	20.0	"	100	"	LXA2	"	"	
Fluoride	1.61	1.00	"	10	"	LXA2	"	"	
Sulfate	780	40.0	"	100	"	LXA2	"	"	

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K2104	ZZZ	11/21/2019	11/22/2019	Ua
Toluene	ND	1.00	"	"	"	ZZZ	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	91.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	70-130			"	"	"	"	

Dissolved Gasses by RSK 175

Ethane	ND	13	ug/L	1	11111		11/26/2019	11/26/2019	
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TH 0017542A
 11/20/2019 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Pace Analytical
 Y911345-01 (Water)

Dissolved Gasses by RSK 175

Methane	ND	10	ug/L	1	11111		11/26/2019	11/26/2019	
n-Propane	ND	18.6	"	"	"		"	"	

Dissolved Metals by EPA 200.8

Calcium	219000	2000	ug/L	10	1941800	BAJ	11/22/2019	11/24/2019	
Magnesium	93800	300	"	"	"	BAJ	"	"	
Potassium	36000	300	"	1	"	BAJ	"	"	
Sodium	141000	2500	"	10	"	BAJ	"	"	

DRO by 8015C

Diesel Range Organics	ND	212	ug/L	1	1941513	RXC1	"	11/23/2019	U
<i>Surrogate: o-Terphenyl</i>	68 %	40-109			"	"	"	"	

GRO by 8015C

Gasoline Range Organics	ND	100	ug/L	1	1941648	RXY1	11/20/2019	11/22/2019	U
<i>Surrogate: Bromofluorobenzene</i>	103 %	75-127			"	"	"	"	

TDS by SM 2540C

Total Dissolved Solids	1690	14.3	mg/L	1	1941440	KLP1	"	11/21/2019	
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 Project Number: 017-0701
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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 B9K2104 - EPA 5030B (Water)

Blank (B9K2104-BLK1)

Prepared: 11/21/2019 Analyzed: 11/22/2019

Benzene	ND	1.00	ug/L							Ua
Toluene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.8	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

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Jen Pellegrini, Project Manager

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9K2104 - EPA 5030B (Water)

LCS (B9K2104-BS1)

Prepared: 11/21/2019 Analyzed: 11/22/2019

Benzene	56.8	1.00	ug/L	50.0		114	70-130			
Toluene	56.1	1.00	"	50.0		112	70-130			
Ethylbenzene	58.6	1.00	"	50.0		117	70-130			
m,p-Xylene	115	2.00	"	100		115	70-130			
o-Xylene	55.1	1.00	"	50.0		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9K2104 - EPA 5030B (Water)

Matrix Spike (B9K2104-MS1)	Source: Y911361-01			Prepared: 11/21/2019 Analyzed: 11/22/2019						
Benzene	44.4	1.00	ug/L	50.0	ND	88.8	70-130			
Toluene	42.3	1.00	"	50.0	ND	84.6	70-130			
Ethylbenzene	45.6	1.00	"	50.0	0.090	91.1	70-130			
m,p-Xylene	90.6	2.00	"	100	0.280	90.4	70-130			
o-Xylene	44.5	1.00	"	50.0	ND	89.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9K2104 - EPA 5030B (Water)

Matrix Spike Dup (B9K2104-MSD1)	Source: Y911361-01			Prepared: 11/21/2019 Analyzed: 11/22/2019						
Benzene	57.4	1.00	ug/L	50.0	ND	115	70-130	25.6	20	QR-03
Toluene	53.9	1.00	"	50.0	ND	108	70-130	24.2	20	QR-03
Ethylbenzene	59.0	1.00	"	50.0	0.090	118	70-130	25.6	20	QR-03
m,p-Xylene	117	2.00	"	100	0.280	117	70-130	25.6	20	QR-03
o-Xylene	57.9	1.00	"	50.0	ND	116	70-130	26.1	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.7	70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Alkalinity by SM 2320B - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1941715 -

LCS (1204438863-BKS)

Prepared: Analyzed: 11/23/2019

Alkalinity, Total as CaCO3	105	4.00	mg/L	100	105	90-110
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DUP (1204438864 D)

Source: 496659002

Prepared: Analyzed: 11/23/2019

Carbonate alkalinity (CaCO3)	ND	4.00	mg/L	<1.45	0-20	0	20	U
Bicarbonate alkalinity (CaCO3)	189	4.00	"	183	0-20	3.24	20	
Alkalinity, Total as CaCO3	189	4.00	"	183	0-20	3.24	20	

MS (1204438866 S)

Source: 496659002

Prepared: Analyzed: 11/23/2019

Alkalinity, Total as CaCO3	289	4.00	mg/L	100	183	107	80-120
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Anions by EPA 300.0 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1941925 -

BLANK (1204439326-BLK)

Prepared: Analyzed: 11/22/2019

Fluoride	ND	0.100	mg/L				-			U
Chloride	ND	0.200	"				-			U
Bromide	ND	0.200	"				-			U
Sulfate	ND	0.400	"				-			U

LCS (1204439327-BKS)

Prepared: Analyzed: 11/22/2019

Fluoride	2.59	0.100	mg/L	2.50	103		90-110			
Sulfate	10.1	0.400	"	10.0	101		90-110			
Bromide	1.33	0.200	"	1.25	107		90-110			
Chloride	5.14	0.200	"	5.00	103		90-110			

DUP (1204439328 D)

Source: 497109007

Prepared: Analyzed: 11/22/2019

Bromide	0.677	0.200	mg/L		0.673		0-20	0.592	20	
Chloride	47.2	2.00	"		47.2		0-20	0.0106	20	
Fluoride	1.61	0.100	"		1.62		0-20	0.372	20	
Sulfate	130	4.00	"		130		0-20	0.0747	20	

PS (1204439329 S)

Source: 497109007

Prepared: Analyzed: 11/22/2019

Chloride	104	2.00	mg/L	5.00	113		90-110			
Bromide	2.01	0.200	"	1.25	107		90-110			
Sulfate	241	4.00	"	10.0	111		90-110			
Fluoride	4.29	0.100	"	2.50	107		90-110			

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Dissolved Metals by EPA 200.8 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1941800 -										
FLT (1204438398-BLK)					Prepared: 11/22/2019 Analyzed: 11/24/2019					
Sodium	ND	250	ug/L				-			U
Potassium	ND	300	"				-			U
Magnesium	ND	30.0	"				-			U
Calcium	ND	200	"				-			U
BLANK (1204439062-BLK)					Prepared: 11/22/2019 Analyzed: 11/24/2019					
Calcium	ND	200	ug/L				-			U
Sodium	ND	250	"				-			U
Magnesium	ND	30.0	"				-			U
Potassium	ND	300	"				-			U
LCS (1204439063-BKS)					Prepared: 11/22/2019 Analyzed: 11/24/2019					
Potassium	1980	300	ug/L	2000		99	85-115			
Sodium	2110	250	"	2000		106	85-115			
Magnesium	1980	30.0	"	2000		98.9	85-115			
Calcium	2110	200	"	2000		106	85-115			
DUP (1204439064 D)					Source: 497137001		Prepared: 11/22/2019 Analyzed: 11/24/2019			
Magnesium	43100	30.0	ug/L		44000		0-20	2.11	20	
Potassium	6200	300	"		6160		0-20	0.637	20	
Sodium	124000	2500	"		130000		0-20	5.08	20	
Calcium	126000	2000	"		125000		0-20	0.651	20	
MS (1204439065 S)					Source: 497137001		Prepared: 11/22/2019 Analyzed: 11/24/2019			
Calcium	124000	2000	ug/L	2000	125000	0	75-125			
Magnesium	45000	30.0	"	2000	44000	0	75-125			
Potassium	7740	300	"	2000	6160	78.9	75-125			
Sodium	132000	2500	"	2000	130000	0	75-125			

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Dissolved Metals by EPA 200.8 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1941800 - EPA 200.2

Origins Laboratory, Inc.



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Trent Watne
 Project Number: 017-0701
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DRO by 8015C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1941513 - SW846 3535A										
BLANK (1204438435-BLK)					Prepared: 11/22/2019 Analyzed: 11/22/2019					
Diesel Range Organics	ND	200	ug/L				-			U
Surrogate: o-Terphenyl	11.0		"	20.0		55	40-109			
LCS (1204438436-BKS)					Prepared: 11/22/2019 Analyzed: 11/22/2019					
Diesel Range Organics	847	200	ug/L	1000		85	45-119			
Surrogate: o-Terphenyl	15.4		"	20.0		77	40-109			
MS (1204438437 S)					Source: 496802003 Prepared: 11/22/2019 Analyzed: 11/22/2019					
Diesel Range Organics	717	202	ug/L	1010	<75.9	71	41-118			
Surrogate: o-Terphenyl	14.8		"	20.2	14.1	73	40-109			
MSD (1204438438 SD)					Source: 496802003 Prepared: 11/22/2019 Analyzed: 11/22/2019					
Diesel Range Organics	911	200	ug/L	998	<74.9	91	41-118	24	20	
Surrogate: o-Terphenyl	16.0		"	20.0	14.1	80	40-109			

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GRO by 8015C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1941648 -										
BLANK (1204438722-BLK)					Prepared: Analyzed: 11/22/2019					
Gasoline Range Organics	ND	100	ug/L				-			U
Surrogate: Bromofluorobenzene	47.7		"	50.0		95	75-127			
LCS (1204438723-BKS)					Prepared: Analyzed: 11/22/2019					
Gasoline Range Organics	490	100	ug/L	500		98	80-120			
Surrogate: Bromofluorobenzene	56.6		"	50.0		113	75-127			
PS (1204438724 S)					Source: Y911345-01		Prepared: Analyzed: 11/22/2019			
Gasoline Range Organics	456	100	ug/L	500		91	68-127			
Surrogate: Bromofluorobenzene	48.7		"	50.0		97	75-127			
PSD (1204438725 SD)					Source: Y911345-01		Prepared: Analyzed: 11/22/2019			
Gasoline Range Organics	352	100	ug/L	500		70	68-127	26	30	
Surrogate: Bromofluorobenzene	53.3		"	50.0		107	75-127			

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TDS by SM 2540C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1941440 -										
BLANK (1204438307-BLK)					Prepared: Analyzed: 11/21/2019					
Total Dissolved Solids	ND	14.3	mg/L				-			U
LCS (1204438308-BKS)					Prepared: Analyzed: 11/21/2019					
Total Dissolved Solids	300	14.3	mg/L	300		100	95-105			
DUP (1204438309 D)		Source: 496674002			Prepared: Analyzed: 11/21/2019					
Total Dissolved Solids	344	14.3	mg/L		351		0-5	2.05	5	

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Project Number: 017-0701
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Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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.

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, Project Manager