

Analytical Report

Report Summary

Client: Stanolind Oil & Gas

Chain Of Custody Number:

Samples Received: 6/8/2018 4:23:00PM

Job Number: 07173-0001

Work Order: P806026 Project Name/Location:

Ute Mountain Tribal 22D

API# 30-045-33423

NMOC
JUL 02 2018
DISTRICT III

Report Reviewed By:



Date: 6/19/18

Walter Hinchman, Laboratory Director



Date: 6/19/18

Tim Cain, Project Manager



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

Stanolind Oil & Gas
PO Box 210
Midland TX, 79702

Project Name: Ute Mountain Tribal 22D
Project Number: 07173-0001
Project Manager: Vern Andrews

Reported:
19-Jun-18 15:08

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Bradenhead Sample	P806026-01A	Aqueous	06/08/18	06/08/18	Poly 500mL

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**Bradenhead Sample
 P806026-01 (Water)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wet Chem/Gravimetric									
Total Dissolved Solids	6350	10.0	mg/L	1	1823025	06/14/18	06/18/18	SM2540C	
Dissolved Metals by 6010									
Calcium	4.02	1.00	mg/L	1	1824011	06/12/18	06/13/18	EPA 6010C	
Iron	ND	2.00	mg/L	1	1824011	06/12/18	06/13/18	EPA 6010C	
Magnesium	0.27	0.20	mg/L	1	1824011	06/12/18	06/13/18	EPA 6010C	
Potassium	21.6	10.0	mg/L	10	1824011	06/12/18	06/14/18	EPA 6010C	
Sodium	224	40.0	mg/L	20	1824011	06/12/18	06/14/18	EPA 6010C	
Sodium Absorption Ratio	29.3		N/A	1	1824028	06/15/18	06/15/18	[CALC]	
Anions by 300.0/9056A									
Fluoride	ND	2.50	mg/L	10	1824005	06/11/18	06/11/18	EPA 300.0/9056A	
Chloride	2410	20.0	mg/L	10	1824005	06/11/18	06/11/18	EPA 300.0/9056A	
Nitrite-N	ND	2.50	mg/L	10	1824005	06/11/18 14:34	06/11/18 17:01	EPA 300.0/9056A	H2
Nitrate-N	ND	2.50	mg/L	10	1824005	06/11/18 14:34	06/11/18 17:01	EPA 300.0/9056A	H2
o-Phosphate-P	ND	2.50	mg/L	10	1824005	06/11/18 14:34	06/11/18 17:01	EPA 300.0/9056A	H2
Sulfate	ND	20.0	mg/L	10	1824005	06/11/18	06/11/18	EPA 300.0/9056A	
Wet Chemistry									
pH @25°C	9.95		pH Units	1	1824010	06/12/18 10:55	06/13/18 09:43	9040C/4500 H+B	H1
Specific Conductance (@ 25 C)	9450	10.0	uS/cm	1	1824013	06/12/18	06/13/18	9050A/2510 B	
Total Alkalinity (as CaCO3 at pH 4.5)	1580	10.0	mg/L	1	1825009	06/19/18	06/19/18	SM2320B	
Bicarbonate Alkalinity (as CaCO3)	343		mg/L	1	1825009	06/19/18	06/19/18	SM2320B	
Hydroxide Alkalinity (as CaCO3)	0.00		mg/L	1	1825009	06/19/18	06/19/18	SM2320B	
Carbonate Alkalinity (as CaCO3)	1230		mg/L	1	1825009	06/19/18	06/19/18	SM2320B	

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Wet Chem/Gravimetric - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1823025 - Wet Chemistry Preparation
Blank (1823025-BLK1)

Prepared: 08-Jun-18 Analyzed: 11-Jun-18

Total Dissolved Solids ND 10.0 mg/L

LCS (1823025-BS1)

Prepared: 08-Jun-18 Analyzed: 11-Jun-18

Total Dissolved Solids 104 10.0 mg/L 100 104 50-150

Duplicate (1823025-DUP1)
Source: P806004-01

Prepared: 08-Jun-18 Analyzed: 11-Jun-18

Total Dissolved Solids 1180 10.0 mg/L 1160 1.62 5

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 Project Manager: Vern Andrews

Reported:
 19-Jun-18 15:08

Dissolved Metals by 6010 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1824011 - Metals Water Hotblock Digestion EPA 3010A/200.2
Blank (1824011-BLK1)

Prepared: 12-Jun-18 Analyzed: 13-Jun-18

Calcium	ND	1.00	mg/L
Iron	ND	2.00	"
Magnesium	ND	0.20	"
Potassium	ND	1.00	"
Sodium	ND	2.00	"

LCS (1824011-BS1)

Prepared: 12-Jun-18 Analyzed: 13-Jun-18

Calcium	47.9	1.00	mg/L	50.0	95.7	80-120
Iron	48.3	2.00	"	50.0	96.7	80-120
Magnesium	48.5	0.20	"	50.0	97.1	80-120
Potassium	4.80	1.00	"	5.00	95.9	80-120
Sodium	46.4	2.00	"	50.0	92.7	80-120

Matrix Spike (1824011-MS1)

Source: P806020-01

Prepared: 12-Jun-18 Analyzed: 13-Jun-18

Calcium	955	10.0	mg/L	500	456	99.8	75-125
Iron	488	20.0	"	500	ND	97.5	75-125
Magnesium	493	2.00	"	500	9.52	96.7	75-125
Potassium	66.0	10.0	"	50.0	13.8	105	75-125
Sodium	1960	20.0	"	500	1540	85.4	75-125

Matrix Spike Dup (1824011-MSD1)

Source: P806020-01

Prepared: 12-Jun-18 Analyzed: 13-Jun-18

Calcium	977	10.0	mg/L	500	456	104	75-125	2.27	20
Iron	513	20.0	"	500	ND	103	75-125	5.13	20
Magnesium	509	2.00	"	500	9.52	99.9	75-125	3.13	20
Potassium	68.8	10.0	"	50.0	13.8	110	75-125	4.08	20
Sodium	1950	20.0	"	500	1540	82.4	75-125	0.767	20

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Anions by 300.0/9056A - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1824005 - Anion Extraction EPA 300.0/9056A
Blank (1824005-BLK1)

Prepared & Analyzed: 11-Jun-18

Fluoride	ND	0.25	mg/L							
Chloride	ND	2.00	"							
Nitrite-N	ND	0.25	"							
Nitrate-N	ND	0.25	"							
o-Phosphate-P	ND	0.25	"							
Sulfate	ND	2.00	"							

LCS (1824005-BS1)

Prepared & Analyzed: 11-Jun-18

Fluoride	2.75	0.25	mg/L	2.50		110	90-110			
Chloride	26.5	2.00	"	25.0		106	90-110			
Nitrite-N	2.54	0.25	"	2.50		102	90-110			
Nitrate-N	2.79	0.25	"	2.50		111	90-110			LCS3
o-Phosphate-P	13.3	0.25	"	12.5		106	90-110			
Sulfate	26.8	2.00	"	25.0		107	90-110			

Matrix Spike (1824005-MS1)

Source: P806026-01

Prepared & Analyzed: 11-Jun-18

Fluoride	29.5	2.50	mg/L	25.0	ND	118	80-120			
Chloride	2700	20.0	"	250	2410	118	80-120			
Nitrite-N	24.8	2.50	"	25.0	ND	99.2	80-120			
Nitrate-N	28.1	2.50	"	25.0	ND	112	80-120			
o-Phosphate-P	133	2.50	"	125	ND	107	80-120			
Sulfate	270	20.0	"	250	ND	108	80-120			

Matrix Spike Dup (1824005-MSD1)

Source: P806026-01

Prepared & Analyzed: 11-Jun-18

Fluoride	29.8	2.50	mg/L	25.0	ND	119	80-120	0.946	20	
Chloride	2660	20.0	"	250	2410	102	80-120	1.54	20	
Nitrite-N	25.5	2.50	"	25.0	ND	102	80-120	2.71	20	
Nitrate-N	28.4	2.50	"	25.0	ND	113	80-120	1.06	20	
o-Phosphate-P	135	2.50	"	125	ND	108	80-120	0.918	20	
Sulfate	273	20.0	"	250	ND	109	80-120	0.968	20	

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Wet Chemistry - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1824010 - Wet Chemistry Preparation

LCS (1824010-BS1)

Prepared: 12-Jun-18 Analyzed: 13-Jun-18

pH	7.99		pH Units	8.00		99.9	98.75-101.25			
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Duplicate (1824010-DUP1)

Source: P806025-01

Prepared: 12-Jun-18 Analyzed: 13-Jun-18

pH	8.54		pH Units	8.51				0.352	20	
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5796 US Highway 64, Farmington, NM 87401

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Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

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envirotech-inc.com
laboratory@envirotech-inc.com

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 Project Manager: Vern Andrews

Reported:
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Wet Chemistry - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1824013 - Wet Chemistry Preparation
Blank (1824013-BLK1)

Prepared: 12-Jun-18 Analyzed: 13-Jun-18

Specific Conductance (@ 25 C) ND 10.0 uS/cm

LCS (1824013-BS1)

Prepared: 12-Jun-18 Analyzed: 13-Jun-18

Specific Conductance (@ 25 C) 1410 10.0 uS/cm 1410 100 98-102

Duplicate (1824013-DUP1)
Source: P806025-01

Prepared: 12-Jun-18 Analyzed: 13-Jun-18

Specific Conductance (@ 25 C) 137 10.0 uS/cm 142 3.58 20

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Reported:
 19-Jun-18 15:08

Wet Chemistry - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1825009 - Wet Chemistry Preparation
LCS (1825009-BS1)

Prepared & Analyzed: 19-Jun-18

Total Alkalinity (as CaCO ₃ at pH 4.5)	263	10.0	mg/L	250	105	70-130
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Duplicate (1825009-DUP1)
Source: P806026-01

Prepared & Analyzed: 19-Jun-18

Total Alkalinity (as CaCO ₃ at pH 4.5)	1640	10.0	mg/L	1580	3.74	20
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Notes and Definitions

LCS3 The Laboratory Control Sample recovery was above quality control limits. This target analyte was not detected in the sample.

H2 Sample was analyzed after regulatory hold-time exceeded for target analyte.

H1 Sample was received after regulatory hold-time exceeded for target analyte.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

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Additional Instructions: Ambient Sample Rec'd C- temp temp - cust. OK w/ potential data qualification email: C.O.C + SEC to vern.andrews					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Mike Wagone</u>					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	
<u>Mike Wagone</u>		<u>12-8-18</u>	<u>4:15pm</u>	<u>AW</u>	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	
Lab Use Only Received on ice: Y / N <u>Y</u> T1 <u>21.6</u> T2 <u>21.8</u> T3 <u>22.9</u> AVG Temp °C <u>22.1</u>					

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Aq Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Project Information

Chain of Custody

Invoice Walsh Eng

Page 1 of 1

Client: EPIC LLC / TACITUS
 Project: NAVAJO TRIBE U-9
 Project Manager: MICHAEL L DEAN
 Address: 7415 EAST MAIN
 City, State, Zip: FARMINGTON NM. 87402
 Phone: 505-327-4892
 Email: VERNAWALSHENG.NET

Report Attention
 Report due by:
 Attention: VERN ANDREWS
 Address: 7415 EAST MAIN
 City, State, Zip: FARMINGTON NM 87402
 Phone: 505-327-4892
 Email: VERN@WALSHENG.NET

Lab Use Only
 Lab WO# P806062 Job Number 07173-0001
 TAT 1D 3D ☒ ☐ ☐
 EPA Program RCRA CWA SDWA

Analysis and Method
 State NM CO UT AZ
 DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 TPH 418.1

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1	Remarks
3:30pm	6/27		1	ROADWAY U-9	1	X	X	X			X	X	
3:30pm	6/27		1	BOTTOM U-9	2	I	I	I			I	I	
3:30pm	6/27		1	SIDES U-9	3	I	I	I			I	I	

Additional Instructions:

CALL OR EMAIL VERN ANDREWS 505-320-1763 / EMAIL VERN@WALSHENG.NET

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: MICHAEL L DEAN

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>MICHAEL L DEAN</u>	Date <u>6/27/18</u>	Time <u>4:20pm</u>	Received by: (Signature) <u>Alanna Cha</u>	Date <u>6/27/18</u>	Time <u>16:20pm</u>	Lab Use Only Received on ice: <u>Y</u> / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3 AVG Temp °C <u>4.0°C</u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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