envirotech
Analytical Laboratory

OCD Received
5/6/2020

Analytical Report

Report Summary

Client: Mustang Resources LLC

Samples Received: 4/1/2020
Job Number: 18109-0002
Work Order: P004004
Project Name/Location: Simmons E 2A **API #30-045-22802**

Report Reviewed By: _____ Date: 4/8/20

Walter Hinchman, Laboratory Director

NELAP ACCREDITED TNI LABORATORY

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Mustang Resources LLC	Project Name:	Simmons E 2A	
1220 S Main	Project Number:	18109-0002	**Reported:**
Aztec NM, 87410	Project Manager:	Don Johnson	04/08/20 10:11

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Simmons E2A	P004004-01A	Aqueous	03/31/20	04/01/20	Poly 500mL

Mustang Resources LLC	Project Name:	Simmons E 2A	**API #30-045-22802**	
1220 S Main	Project Number:	18109-0002		**Reported:**
Aztec NM, 87410	Project Manager:	Don Johnson		04/08/20 10:11

Simmons E2A

P004004-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wet Chem/Gravimetric									
Total Dissolved Solids	**9620**	25.0	mg/L	1	2014014	04/01/20	04/07/20	SM2540C	
Dissolved Metals by 6010									
Sodium Absorption Ratio	**65.8**		N/A	1	2014031	04/03/20	04/03/20	[CALC]	
Calcium	**184**	1.00	mg/L	1	2014018	04/02/20	04/02/20	EPA 6010C	
Iron	ND	2.00	mg/L	1	2014018	04/02/20	04/02/20	EPA 6010C	
Magnesium	ND	1.00	mg/L	1	2014018	04/02/20	04/02/20	EPA 6010C	
Potassium	**11.2**	1.00	mg/L	1	2014018	04/02/20	04/02/20	EPA 6010C	
Sodium	**3240**	100	mg/L	50	2014018	04/02/20	04/02/20	EPA 6010C	
Anions by 300.0/9056A									
Fluoride	ND	5.00	mg/L	20	2014021	04/01/20	04/01/20	EPA 300.0/9056A	
Chloride	**93.6**	40.0	mg/L	20	2014021	04/01/20	04/01/20	EPA 300.0/9056A	
Nitrite-N	ND	5.00	mg/L	20	2014021	04/01/20 15:51	04/01/20 18:54	EPA 300.0/9056A	
Nitrate-N	ND	5.00	mg/L	20	2014021	04/01/20 15:51	04/01/20 18:54	EPA 300.0/9056A	
o-Phosphate-P	ND	5.00	mg/L	20	2014021	04/01/20 15:51	04/01/20 18:54	EPA 300.0/9056A	
Sulfate	**5740**	40.0	mg/L	20	2014021	04/01/20	04/01/20	EPA 300.0/9056A	
Wet Chemistry									
pH @25°C	**12.0**		pH Units	1	2015004	04/06/20 09:31	04/06/20 15:36	9040C/4500 H+B	H5
Specific Conductance (@ 25 C)	**13800**	10.0	uS/cm	1	2015005	04/06/20	04/07/20	9050A/2510 B	
Total Alkalinity (as CaCO3 at pH 4.5)	**1000**	10.0	mg/L	1	2015009	04/07/20	04/07/20	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
Batch 2014014 - Wet Chemistry Preparation										
Blank (2014014-BLK1)				Prepared: 04/01/20 0 Analyzed: 04/06/20 0						
Total Dissolved Solids	ND	10.0	mg/L							
LCS (2014014-BS1)				Prepared: 04/01/20 0 Analyzed: 04/06/20 0						
Total Dissolved Solids	89.0	10.0	mg/L	100		89.0	55-134			
Duplicate (2014014-DUP1)		**Source: P003140-02**		Prepared: 04/01/20 0 Analyzed: 04/06/20 0						
Total Dissolved Solids	77100	100	mg/L		77400			0.363	5	

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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
Batch 2014018 - Metals Water Hotblock Digestion EPA 3010A/200.2										
Blank (2014018-BLK1)				Prepared & Analyzed: 04/02/20 1						
Calcium	ND	1.00	mg/L							
Iron	ND	2.00	"							
Magnesium	ND	1.00	"							
Potassium	ND	1.00	"							
Sodium	ND	2.00	"							
LCS (2014018-BS1)				Prepared & Analyzed: 04/02/20 1						
Calcium	47.6	1.00	mg/L	50.0		95.2	80-120			
Iron	94.1	2.00	"	100		94.1	80-120			
Magnesium	49.4	1.00	"	50.0		98.9	80-120			
Potassium	4.88	1.00	"	5.00		97.5	80-120			
Sodium	17.8	2.00	"	20.0		89.1	80-120			
Matrix Spike (2014018-MS1)	**Source: P003140-01**			Prepared & Analyzed: 04/02/20 1						
Calcium	54.7	1.00	mg/L	50.0	6.26	96.9	75-125			
Iron	106	2.00	"	100	8.06	97.5	75-125			
Magnesium	52.8	1.00	"	50.0	4.10	97.4	75-125			
Potassium	30.5	1.00	"	5.00	23.9	132	75-125			M2
Sodium	1020	20.0	"	20.0	1010	30.0	75-125			M5
Matrix Spike Dup (2014018-MSD1)	**Source: P003140-01**			Prepared & Analyzed: 04/02/20 1						
Calcium	57.7	1.00	mg/L	50.0	6.26	103	75-125	5.31	20	
Iron	109	2.00	"	100	8.06	101	75-125	3.53	20	
Magnesium	56.0	1.00	"	50.0	4.10	104	75-125	5.84	20	
Potassium	32.0	1.00	"	5.00	23.9	162	75-125	4.86	20	M2
Sodium	1100	20.0	"	20.0	1010	430	75-125	7.55	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
Batch 2014021 - Anion Extraction EPA 300.0/9056A										
Blank (2014021-BLK1)				Prepared & Analyzed: 04/01/20 1						
Fluoride	ND	0.250	mg/L							
Chloride	ND	2.00	"							
Nitrite-N	ND	0.250	"							
Nitrate-N	ND	0.250	"							
o-Phosphate-P	ND	0.250	"							
Sulfate	ND	2.00	"							
LCS (2014021-BS1)				Prepared & Analyzed: 04/01/20 1						
Fluoride	2.50	0.250	mg/L	2.50		100	90-110			
Chloride	24.9	2.00	"	25.0		99.4	90-110			
Nitrite-N	2.46	0.250	"	2.50		98.4	90-110			
Nitrate-N	2.54	0.250	"	2.50		102	90-110			
o-Phosphate-P	12.3	0.250	"	12.5		98.2	90-110			
Sulfate	24.9	2.00	"	25.0		99.4	90-110			
LCS Dup (2014021-BSD1)				Prepared & Analyzed: 04/01/20 1						
Fluoride	2.52	0.250	mg/L	2.50		101	90-110	0.836	20	
Chloride	24.8	2.00	"	25.0		99.1	90-110	0.363	20	
Nitrite-N	2.46	0.250	"	2.50		98.5	90-110	0.0812	20	
Nitrate-N	2.53	0.250	"	2.50		101	90-110	0.552	20	
o-Phosphate-P	12.2	0.250	"	12.5		97.8	90-110	0.327	20	
Sulfate	24.8	2.00	"	25.0		99.2	90-110	0.209	20	

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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
Batch 2015004 - Wet Chemistry Preparation										
LCS (2015004-BS1)				Prepared: 04/06/20 0 Analyzed: 04/06/20 1						
pH	7.95		pH Units	8.00		99.7	98.75-101.25			
Duplicate (2015004-DUP1)		**Source: P004004-01**		Prepared: 04/06/20 0 Analyzed: 04/06/20 1						
pH	12.0		pH Units		12.0			0.00	20	

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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
Batch 2015005 - Wet Chemistry Preparation										
Blank (2015005-BLK1)				Prepared: 04/06/20 0 Analyzed: 04/07/20 1						
Specific Conductance (@ 25 C)	ND	10.0	uS/cm							
LCS (2015005-BS1)				Prepared: 04/06/20 0 Analyzed: 04/07/20 1						
Specific Conductance (@ 25 C)	1430	10.0	uS/cm	1410		101	98-102			
Duplicate (2015005-DUP1)		**Source: P004004-01**		Prepared: 04/06/20 0 Analyzed: 04/07/20 1						
Specific Conductance (@ 25 C)	13900	10.0	uS/cm		13800			0.434	20	

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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
Batch 2015009 - Wet Chemistry Preparation										
LCS (2015009-BS1)				Prepared: 04/07/20 0 Analyzed: 04/07/20 1						
Total Alkalinity (as CaCO3 at pH 4.5)	231	10.0	mg/L	250		92.4	70-130			
LCS Dup (2015009-BSD1)				Prepared: 04/07/20 0 Analyzed: 04/07/20 1						
Total Alkalinity (as CaCO3 at pH 4.5)	245	10.0	mg/L	250		98.0	70-130	5.88	20	

QC Summary Report
Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Notes and Definitions

M5	The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
H5	pH is specified to be performed in the field within 15 minutes of sampling. The sample was performed as quickly as possible.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Client:	Mustang Resources LLC
Project:	Simmons E 2A
Project Manager:	Dan Johnson
Address:	1220 S. Main
City, State, Zip	Aztec NM 87410
Phone:	505-334-9111 or 320-0819
Email:	djohnson@mustangresourcesllc.com
Report due by:	

Bill To

Attention:	Dan Johnson
Address:	
City, State, Zip	
Phone:	
Email:	DJohnson@mustangresourcesllc.com

Lab Use Only

Lab WO#	Job Number
P004004	18109-0002

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM | CO | UT | AZ | TX | OK

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	C-141 Packet	Remarks
1:30pm	3/31/20	A	1	Simmons E 2A (Breadenhead)	1							✓	

Additional Instructions: API 30-045-22802

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: Donald Johnson

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)	Date	Time	Received by: (Signature)	Date	Time
[signature]	4/1/20	12:39	Raina Lopez	4/1/20	12:39
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

Received on ice: Y / (N)

T1 8.9 T2 9.0 T3 9.6

AVG Temp °C 9.2

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 samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Analytical Laboratory
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