



Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

26 September 2017

Si Environmental, LLC
Chris Manthei
6420 Reading Road
Rosenberg, TX 77471

Cimarron MUD - WQP

Enclosed are the results of analyses for samples received by the laboratory on 28-Jul-17 14:50. The analytical data provided relates only to the samples as received in this laboratory report.

ELI certifies that all results are NELAP compliant and performed in accordance with the referenced method except as noted in the Case Narrative or as noted with a qualifier. Any reproductions of this laboratory report should be in full and only with the written authorization from the client.

The total number of pages in this report is 14

Thank you for selecting ELI for your analytical needs. If you have any questions regarding this report, please contact us.

Sincerely,

A handwritten signature in blue ink that reads 'Laura Bonjonia'.

Laura Bonjonia For Itzel Dominguez
Project Manager



Certificate No: TX104704265-17-12



Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: Si Environmental, LLC
Project: Cimarron MUD - WQP
Work Order: 17H0276

Reported:
26-Sep-17 13:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TRT-TAP-742 COPPER CREEK	17H0276-01	Water	28-Jul-17 13:35	28-Jul-17 14:50
TRT-TAP-23556 W FERNHURST	17H0276-02	Water	28-Jul-17 13:49	28-Jul-17 14:50
TRT-TAP-1211 1/2 FALCON PARK	17H0276-03	Water	28-Jul-17 14:02	28-Jul-17 14:50
903 LONG PRAIRIE	17H0276-04	Water	28-Jul-17 13:00	28-Jul-17 14:50
1042 WESTERN SPRINGS	17H0276-05	Water	28-Jul-17 13:11	28-Jul-17 14:50
22922 GOVERNORSHIRE	17H0276-06	Water	28-Jul-17 13:20	28-Jul-17 14:50

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Laura Bonjonia For Itzel Dominguez, Project Manager



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Work Order: 17H0276

Reported:
26-Sep-17 13:27

TRT-TAP-742 COPPER CREEK
17H0276-01 (Water) Sampled: 28-Jul-17 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Wet Chemistry

Alkalinity (m) as CaCO ₃	190	20	mg/L	1	B7H0113	01-Aug-17	01-Aug-17 12:00	SM 2320 B	JAS	
Alkalinity (p) as CaCO ₃	<20	20	mg/L	1	B7H0113	01-Aug-17	01-Aug-17 12:00	SM 2320 B	JAS	
Total Alkalinity as CaCO ₃	190	20	mg/L	1	[CALC]	01-Aug-17	01-Aug-17 12:00	[CALC]	JAS	
Chloride	46.0	3.0	mg/L	1	B7H0110	03-Aug-17	03-Aug-17 10:50	SM4500-Cl B	ACB	
Conductivity	482	10	uS/cm	1	B7H0111	02-Aug-17	02-Aug-17 10:45	SM2510 B	JAS	
pH	7.49		SU	1	B7H3474	28-Jul-17	28-Jul-17 13:35	SM4500H+ B	MSB	
Temperature	18.0	10.0	°C	1	B7H3474	28-Jul-17	28-Jul-17 13:35	SM2550 B	MSB	
OrthoPhosphate as P	<0.10	0.10	mg/L	1	B7G3498	28-Jul-17	28-Jul-17 16:30	SM4500-P E	JAS	
Sulfate	17.5	2.00	mg/L	1	B7H0109	02-Aug-17	02-Aug-17 15:49	ASTM D516-07	AT	
TDS	296	10.0	mg/L	1	B7H0607	04-Aug-17	04-Aug-17 15:40	SM2540 C	RH	

Total Metals by ICP

Calcium	53.7	2.00	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	
Total Hardness as CaCO ₃	166	13.2	mg/L	1	[CALC]	07-Aug-17	16-Aug-17 19:30	SM 2340B	XQH	
Iron	0.181	0.0018	mg/L	1	B7H0427	02-Aug-17	03-Aug-17 12:18	EPA 200.7	XQH	
Magnesium	7.80	2.00	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	
Manganese	0.0221	0.0004	mg/L	1	B7H0427	02-Aug-17	03-Aug-17 12:18	EPA 200.7	XQH	
Sodium	31.0	2.0	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	

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Client: Si Environmental, LLC
Project: Cimarron MUD - WQP
Work Order: 17H0276

Reported:
26-Sep-17 13:27

TRT-TAP-23556 W FERNHURST
17H0276-02 (Water) Sampled: 28-Jul-17 13:49

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Wet Chemistry

Alkalinity (m) as CaCO ₃	190	20	mg/L	1	B7H0113	01-Aug-17	01-Aug-17 12:00	SM 2320 B	JAS	
Alkalinity (p) as CaCO ₃	<20	20	mg/L	1	B7H0113	01-Aug-17	01-Aug-17 12:00	SM 2320 B	JAS	
Total Alkalinity as CaCO ₃	190	20	mg/L	1	[CALC]	01-Aug-17	01-Aug-17 12:00	[CALC]	JAS	
Chloride	30.0	3.0	mg/L	1	B7H0110	03-Aug-17	03-Aug-17 10:50	SM4500-Cl B	ACB	
Conductivity	501	10	uS/cm	1	B7H0111	02-Aug-17	02-Aug-17 10:45	SM2510 B	JAS	
pH	7.30		SU	1	B7H3474	28-Jul-17	28-Jul-17 13:49	SM4500H+ B	MSB	
Temperature	19.0	10.0	°C	1	B7H3474	28-Jul-17	28-Jul-17 13:49	SM2550 B	MSB	
OrthoPhosphate as P	<0.10	0.10	mg/L	1	B7G3498	28-Jul-17	28-Jul-17 16:30	SM4500-P E	JAS	
Sulfate	9.30	2.00	mg/L	1	B7H0109	02-Aug-17	02-Aug-17 15:49	ASTM D516-07	AT	
TDS	310	10.0	mg/L	1	B7H0607	04-Aug-17	04-Aug-17 15:40	SM2540 C	RH	

Total Metals by ICP

Calcium	28.3	2.00	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	
Total Hardness as CaCO ₃	96.5	13.2	mg/L	1	[CALC]	07-Aug-17	16-Aug-17 19:30	SM 2340B	XQH	
Iron	0.321	0.0018	mg/L	1	B7H0427	02-Aug-17	03-Aug-17 12:21	EPA 200.7	XQH	
Magnesium	6.28	2.00	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	
Manganese	0.0221	0.0004	mg/L	1	B7H0427	02-Aug-17	03-Aug-17 12:21	EPA 200.7	XQH	
Sodium	69.0	2.0	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	

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Client: Si Environmental, LLC
Project: Cimarron MUD - WQP
Work Order: 17H0276

Reported:
26-Sep-17 13:27

TRT-TAP-1211 1/2 FALCON PARK
17H0276-03 (Water) Sampled: 28-Jul-17 14:02

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Wet Chemistry

Alkalinity (m) as CaCO ₃	200	20	mg/L	1	B7H0113	01-Aug-17	01-Aug-17 12:00	SM 2320 B	JAS	
Alkalinity (p) as CaCO ₃	<20	20	mg/L	1	B7H0113	01-Aug-17	01-Aug-17 12:00	SM 2320 B	JAS	
Total Alkalinity as CaCO ₃	200	20	mg/L	1	[CALC]	01-Aug-17	01-Aug-17 12:00	[CALC]	JAS	
Chloride	44.0	3.0	mg/L	1	B7H0110	03-Aug-17	03-Aug-17 10:50	SM4500-Cl B	ACB	
Conductivity	460	10	uS/cm	1	B7H0111	02-Aug-17	02-Aug-17 10:45	SM2510 B	JAS	
pH	7.28		SU	1	B7H3474	28-Jul-17	28-Jul-17 14:02	SM4500H+ B	MSB	
Temperature	18.0	10.0	°C	1	B7H3474	28-Jul-17	28-Jul-17 14:02	SM2550 B	MSB	
OrthoPhosphate as P	<0.10	0.10	mg/L	1	B7G3498	28-Jul-17	28-Jul-17 16:30	SM4500-P E	JAS	
Sulfate	14.7	2.00	mg/L	1	B7H0109	02-Aug-17	02-Aug-17 15:49	ASTM D516-07	AT	
TDS	280	10.0	mg/L	1	B7H0607	04-Aug-17	04-Aug-17 15:40	SM2540 C	RH	

Total Metals by ICP

Calcium	53.5	2.00	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	
Total Hardness as CaCO ₃	162	13.2	mg/L	1	[CALC]	07-Aug-17	16-Aug-17 19:30	SM 2340B	XQH	
Iron	0.698	0.0018	mg/L	1	B7H0427	02-Aug-17	03-Aug-17 12:24	EPA 200.7	XQH	
Magnesium	6.81	2.00	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	
Manganese	0.0282	0.0004	mg/L	1	B7H0427	02-Aug-17	03-Aug-17 12:24	EPA 200.7	XQH	
Sodium	27.2	2.0	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	

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Client: Si Environmental, LLC
Project: Cimarron MUD - WQP
Work Order: 17H0276

Reported:
26-Sep-17 13:27

903 LONG PRAIRIE
17H0276-04 (Water) Sampled: 28-Jul-17 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Wet Chemistry

Alkalinity (m) as CaCO ₃	210	20	mg/L	1	B7H0113	01-Aug-17	01-Aug-17 12:00	SM 2320 B	JAS	
Alkalinity (p) as CaCO ₃	<20	20	mg/L	1	B7H0113	01-Aug-17	01-Aug-17 12:00	SM 2320 B	JAS	
Total Alkalinity as CaCO ₃	210	20	mg/L	1	[CALC]	01-Aug-17	01-Aug-17 12:00	[CALC]	JAS	
Chloride	50.0	3.0	mg/L	1	B7H0110	03-Aug-17	03-Aug-17 10:50	SM4500-Cl B	ACB	
Conductivity	494	10	uS/cm	1	B7H0111	02-Aug-17	02-Aug-17 10:45	SM2510 B	JAS	
pH	7.52		SU	1	B7H3474	28-Jul-17	28-Jul-17 13:00	SM4500H+ B	MSB	
Temperature	20.0	10.0	°C	1	B7H3474	28-Jul-17	28-Jul-17 13:00	SM2550 B	MSB	
OrthoPhosphate as P	0.22	0.10	mg/L	1	B7G3498	28-Jul-17	28-Jul-17 16:30	SM4500-P E	JAS	
Sulfate	19.5	2.00	mg/L	1	B7H0109	02-Aug-17	02-Aug-17 15:49	ASTM D516-07	AT	
TDS	266	10.0	mg/L	1	B7H0607	04-Aug-17	04-Aug-17 15:40	SM2540 C	RH	

Total Metals by ICP

Calcium	51.8	2.00	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	
Total Hardness as CaCO ₃	161	13.2	mg/L	1	[CALC]	07-Aug-17	16-Aug-17 19:30	SM 2340B	XQH	
Iron	0.106	0.0018	mg/L	1	B7H0427	02-Aug-17	03-Aug-17 12:27	EPA 200.7	XQH	
Magnesium	7.64	2.00	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	
Manganese	0.0153	0.0004	mg/L	1	B7H0427	02-Aug-17	03-Aug-17 12:27	EPA 200.7	XQH	
Sodium	34.2	2.0	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	

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Client: Si Environmental, LLC
Project: Cimarron MUD - WQP
Work Order: 17H0276

Reported:
26-Sep-17 13:27

1042 WESTERN SPRINGS
17H0276-05 (Water) Sampled: 28-Jul-17 13:11

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Wet Chemistry

Alkalinity (m) as CaCO ₃	160	20	mg/L	1	B7H0113	01-Aug-17	01-Aug-17 12:00	SM 2320 B	JAS	
Alkalinity (p) as CaCO ₃	<20	20	mg/L	1	B7H0113	01-Aug-17	01-Aug-17 12:00	SM 2320 B	JAS	
Total Alkalinity as CaCO ₃	160	20	mg/L	1	[CALC]	01-Aug-17	01-Aug-17 12:00	[CALC]	JAS	
Chloride	42.0	3.0	mg/L	1	B7H0110	03-Aug-17	03-Aug-17 10:50	SM4500-Cl B	ACB	
Conductivity	493	10	uS/cm	1	B7H0111	02-Aug-17	02-Aug-17 10:45	SM2510 B	JAS	
pH	7.31		SU	1	B7H3474	28-Jul-17	28-Jul-17 13:11	SM4500H+ B	MSB	
Temperature	19.0	10.0	°C	1	B7H3474	28-Jul-17	28-Jul-17 13:11	SM2550 B	MSB	
OrthoPhosphate as P	0.22	0.10	mg/L	1	B7G3498	28-Jul-17	28-Jul-17 16:30	SM4500-P E	JAS	
Sulfate	15.2	2.00	mg/L	1	B7H0108	01-Aug-17	01-Aug-17 15:30	ASTM D516-07	AT	
TDS	302	10.0	mg/L	1	B7H0607	04-Aug-17	04-Aug-17 15:40	SM2540 C	RH	

Total Metals by ICP

Calcium	52.6	2.00	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	
Total Hardness as CaCO ₃	163	13.2	mg/L	1	[CALC]	07-Aug-17	16-Aug-17 19:30	SM 2340B	XQH	
Iron	0.120	0.0018	mg/L	1	B7H0427	02-Aug-17	03-Aug-17 12:30	EPA 200.7	XQH	
Magnesium	7.75	2.00	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	
Manganese	0.0160	0.0004	mg/L	1	B7H0427	02-Aug-17	03-Aug-17 12:30	EPA 200.7	XQH	
Sodium	34.5	2.0	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	

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Client: Si Environmental, LLC
Project: Cimarron MUD - WQP
Work Order: 17H0276

Reported:
26-Sep-17 13:27

22922 GOVERNORSHIRE
17H0276-06 (Water) Sampled: 28-Jul-17 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Wet Chemistry

Alkalinity (m) as CaCO ₃	180	20	mg/L	1	B7H0113	01-Aug-17	01-Aug-17 12:00	SM 2320 B	JAS	
Alkalinity (p) as CaCO ₃	<20	20	mg/L	1	B7H0113	01-Aug-17	01-Aug-17 12:00	SM 2320 B	JAS	
Total Alkalinity as CaCO ₃	180	20	mg/L	1	[CALC]	01-Aug-17	01-Aug-17 12:00	[CALC]	JAS	
Chloride	50.0	3.0	mg/L	1	B7H0110	03-Aug-17	03-Aug-17 10:50	SM4500-Cl B	ACB	
Conductivity	515	10	uS/cm	1	B7H0111	02-Aug-17	02-Aug-17 10:45	SM2510 B	JAS	
pH	7.45		SU	1	B7H3474	28-Jul-17	28-Jul-17 13:20	SM4500H+ B	MSB	
Temperature	20.0	10.0	°C	1	B7H3474	28-Jul-17	28-Jul-17 13:20	SM2550 B	MSB	
OrthoPhosphate as P	0.25	0.10	mg/L	1	B7G3498	28-Jul-17	28-Jul-17 16:30	SM4500-P E	JAS	
Sulfate	17.2	2.00	mg/L	1	B7H0108	01-Aug-17	01-Aug-17 15:30	ASTM D516-07	AT	
TDS	306	10.0	mg/L	1	B7H0607	04-Aug-17	04-Aug-17 15:40	SM2540 C	RH	

Total Metals by ICP

Calcium	32.3	2.00	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	
Total Hardness as CaCO ₃	108	13.2	mg/L	1	[CALC]	07-Aug-17	16-Aug-17 19:30	SM 2340B	XQH	
Iron	0.0460	0.0018	mg/L	1	B7H0427	02-Aug-17	03-Aug-17 12:33	EPA 200.7	XQH	
Magnesium	6.65	2.00	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	
Manganese	0.0377	0.0004	mg/L	1	B7H0427	02-Aug-17	03-Aug-17 12:33	EPA 200.7	XQH	
Sodium	63.2	2.0	mg/L	1	B7H0755	07-Aug-17	16-Aug-17 19:30	EPA 200.7	XQH	

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Work Order: 17H0276

Reported:
26-Sep-17 13:27

Wet Chemistry - Quality Control
Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7G3498 - Inorganics										
Blank (B7G3498-BLK1)				Prepared & Analyzed: 28-Jul-17						
OrthoPhosphate as P	<0.10	0.10	mg/L							
LCS (B7G3498-BS1)				Prepared & Analyzed: 28-Jul-17						
OrthoPhosphate as P	0.340		mg/L	0.333		102	80-120			
Matrix Spike (B7G3498-MS1)				Source: 17H0276-01		Prepared & Analyzed: 28-Jul-17				
OrthoPhosphate as P	0.360	0.10	mg/L	0.333	ND	108	80-120			
Matrix Spike Dup (B7G3498-MSD1)				Source: 17H0276-01		Prepared & Analyzed: 28-Jul-17				
OrthoPhosphate as P	0.360	0.10	mg/L	0.333	ND	108	80-120	0.00	20	
Batch B7H0108 - Inorganics										
Blank (B7H0108-BLK1)				Prepared & Analyzed: 01-Aug-17						
Sulfate	<2.00	2.00	mg/L							
LCS (B7H0108-BS1)				Prepared & Analyzed: 01-Aug-17						
Sulfate	19.0		mg/L	20.0		95.1	90-110			
Matrix Spike (B7H0108-MS1)				Source: 17G3220-01		Prepared & Analyzed: 01-Aug-17				
Sulfate	21.9	2.00	mg/L	20.0	1.81	101	80-120			
Matrix Spike Dup (B7H0108-MSD1)				Source: 17G3220-01		Prepared & Analyzed: 01-Aug-17				
Sulfate	21.2	2.00	mg/L	20.0	1.81	96.8	80-120	3.53	20	
Batch B7H0109 - Inorganics										
Blank (B7H0109-BLK1)				Prepared & Analyzed: 02-Aug-17						
Sulfate	<2.00	2.00	mg/L							

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Work Order: 17H0276

Reported:
26-Sep-17 13:27

Wet Chemistry - Quality Control
Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7H0109 - Inorganics

LCS (B7H0109-BS1)

Prepared & Analyzed: 02-Aug-17

Sulfate	21.2		mg/L	20.0		106	90-110			
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Matrix Spike (B7H0109-MS1)

Source: 17G3323-01

Prepared & Analyzed: 02-Aug-17

Sulfate	32.1	2.00	mg/L	20.0	10.6	108	80-120			
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Matrix Spike Dup (B7H0109-MSD1)

Source: 17G3323-01

Prepared & Analyzed: 02-Aug-17

Sulfate	31.6	2.00	mg/L	20.0	10.6	105	80-120	1.63	20	
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Batch B7H0110 - Inorganics

Blank (B7H0110-BLK1)

Prepared & Analyzed: 03-Aug-17

Chloride	<3.0	3.0	mg/L							
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LCS (B7H0110-BS1)

Prepared & Analyzed: 03-Aug-17

Chloride	104		mg/L	100		104	80-120			
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Matrix Spike (B7H0110-MS1)

Source: 17G3447-01

Prepared & Analyzed: 03-Aug-17

Chloride	52.0	3.0	mg/L	20.0	34.0	90.0	80-120			
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Matrix Spike Dup (B7H0110-MSD1)

Source: 17G3447-01

Prepared & Analyzed: 03-Aug-17

Chloride	54.0	3.0	mg/L	20.0	34.0	100	80-120	3.77	20	
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Batch B7H0111 - Inorganics

Blank (B7H0111-BLK1)

Prepared & Analyzed: 02-Aug-17

Conductivity	<10	10	uS/cm							
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Envirodyne Laboratories, Inc.

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Laura Bonjonia For Itzel Dominguez, Project Manager



Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: Si Environmental, LLC
Project: Cimarron MUD - WQP
Work Order: 17H0276

Reported:
26-Sep-17 13:27

Wet Chemistry - Quality Control
Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7H0111 - Inorganics

Duplicate (B7H0111-DUP1)	Source: 17H0276-01			Prepared & Analyzed: 02-Aug-17						
Conductivity	483	10	uS/cm		482			0.311	20	

Reference (B7H0111-SRM1)	Prepared & Analyzed: 02-Aug-17									
Conductivity	180		uS/cm	180		100	0-200			

Batch B7H0113 - Inorganics

Blank (B7H0113-BLK1)	Prepared & Analyzed: 01-Aug-17									
Alkalinity (m) as CaCO ₃	<20	20	mg/L							
Alkalinity (p) as CaCO ₃	<20	20	"							

LCS (B7H0113-BS1)	Prepared & Analyzed: 01-Aug-17									
Alkalinity (m) as CaCO ₃	51		mg/L	50.0		102	80-120			
Alkalinity (p) as CaCO ₃	49		"	50.0		98.0	80-120			

Duplicate (B7H0113-DUP1)	Source: 17H0276-06			Prepared & Analyzed: 01-Aug-17						
Alkalinity (m) as CaCO ₃	172	20	mg/L		180			4.55	20	
Alkalinity (p) as CaCO ₃	<20	20	"		<20			0	20	

Batch B7H0607 - Inorganics

Blank (B7H0607-BLK1)	Prepared & Analyzed: 04-Aug-17									
TDS	<10.0	10.0	mg/L							

Duplicate (B7H0607-DUP1)	Source: 17H0259-01			Prepared & Analyzed: 04-Aug-17						
TDS	672	10.0	mg/L		668			0.597	20	

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Work Order: 17H0276

Reported:
26-Sep-17 13:27

Total Metals by ICP - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch B7H0427 - Metals - EPA 200.2

Blank (B7H0427-BLK1)

Prepared: 02-Aug-17 Analyzed: 03-Aug-17

Iron	<0.0018	0.0018	mg/L
Manganese	<0.0004	0.0004	"

LCS (B7H0427-BS1)

Prepared: 02-Aug-17 Analyzed: 03-Aug-17

Iron	260		ug/L	250	104	85-115
Manganese	246		"	250	98.2	85-115

Matrix Spike (B7H0427-MS1)

Source: 17G3432-01

Prepared: 02-Aug-17 Analyzed: 03-Aug-17

Manganese	0.715	0.0004	mg/L	0.500	0.237	95.5	70-130
Iron	1.20	0.0018	"	0.500	0.726	94.4	70-130

Matrix Spike Dup (B7H0427-MSD1)

Source: 17G3432-01

Prepared: 02-Aug-17 Analyzed: 03-Aug-17

Iron	1.20	0.0018	mg/L	0.500	0.726	95.7	70-130	0.542	20
Manganese	0.722	0.0004	"	0.500	0.237	97.0	70-130	1.06	20

Batch B7H0755 - Metals - EPA 200.2

Blank (B7H0755-BLK1)

Prepared: 17-Aug-17 Analyzed: 16-Aug-17

Sodium	<2.0	2.0	mg/L
Magnesium	<2.00	2.00	"
Calcium	<2.00	2.00	"

LCS (B7H0755-BS1)

Prepared: 17-Aug-17 Analyzed: 16-Aug-17

Sodium	20.0		mg/L	20.0	100	85-115
Calcium	20.3		"	20.0	101	85-115
Magnesium	20.3		"	20.0	102	85-115

Envirodyne Laboratories, Inc.

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Client: Si Environmental, LLC
Project: Cimarron MUD - WQP
Work Order: 17H0276

Reported:
26-Sep-17 13:27

Total Metals by ICP - Quality Control
Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7H0755 - Metals - EPA 200.2

Matrix Spike (B7H0755-MS1)

Source: 17H0625-01

Prepared: 17-Aug-17 Analyzed: 16-Aug-17

Calcium	84.7	2.00	mg/L	20.0	62.4	112	70-130			
Sodium	119	2.0	"	20.0	95.6	119	70-130			
Magnesium	33.7	2.00	"	20.0	12.1	108	70-130			

Matrix Spike Dup (B7H0755-MSD1)

Source: 17H0625-01

Prepared: 17-Aug-17 Analyzed: 16-Aug-17

Calcium	82.9	2.00	mg/L	20.0	62.4	103	70-130	2.20	20	
Magnesium	32.4	2.00	"	20.0	12.1	102	70-130	3.90	20	
Sodium	117	2.0	"	20.0	95.6	106	70-130	2.12	20	

Envirodyne Laboratories, Inc.

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Client: Si Environmental, LLC
Project: Cimarron MUD - WQP
Work Order: 17H0276

Reported:
26-Sep-17 13:27

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
CLT Client Representative

Envirodyne Laboratories, Inc.

A handwritten signature in blue ink that reads "Laura Bonjonia".

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Laura Bonjonia For Itzel Dominguez, Project Manager



WATER QUALITY PARAMETER CHAIN OF CUSTODY FORM 20679

Section I (PWS Information)								Section II (Completed by Laboratory)													
PWS Name: Cimarron MUD PWS ID #: TX1011410 PWS Contact Name: Mike Thornhill PWS Contact Number: 832-490-1507				PWS Type: ☒ Community ☐ NTNC Population: ☒ <50,000 ☐ 50,001 to 100,000 ☐ >100,000				Lab Name: Envirodyne Laboratories, Inc.													
☒ Compliance ☐ Noncompliance		☐ Tap Copper Exceedance ☐ Tap Lead Exceedance		Laboratory Address: 11011 Brooklet Dr #230, Houston, TX 77099																	
☒ Distribution System ☒ Entry Point		# DS Samples Required: 3 # DS Samples Submitted: 3 # EP Samples Required: 3 # EP Samples Submitted: 3		Laboratory Contact Name: Laura Bonjonia																	
Inhibitor or stabilizer used: ☒ phosphate ☐ calcium carbonate ☐ silica								Lab Phone: 281-568-7880		Parameters Requested: *Analyses are required for the parameters checked. If inhibitors containing PO4 or silicate are used, then these parameters should also be tested depending on which is used.											
Source ID (e.g. DS01, EP001)	Sample Location	Sample Collection Date (MMDDYY)	Sample Collection Time (HHMM)	pH (1925)	pH method	Temp (°C) (1996)	Temp Method	Lab Sample ID	Alkalinity (1927)	Calcium (1919)	Chloride (1017)	Conductivity (1064)	Hardness (1915)	Iron (1028)	Manganese (1032)	Sodium (1052)	Sulfate (1055)	TDS (1930)	O-phosphate (1044)	Silica (1049)	
EP001	TRT-TAP-742 COPPER CREEK	7-28-17	1335	7.49	SM4500HB	18°	SM2250-B	17H0276-01	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	*	*	
EP002	TRT-TAP-23556 W FERNHURST	7-28-17	1349	7.30	SM4500HB	19°	SM2250-B	17H0276-02	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	*	*	
EP003	TRT-TAP-1211 1/2 FALCON PARK	7-28-17	1402	7.28	SM4500HB	18°	SM2250-B	17H0276-03	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	*	*	
DS01	903 LONG PRAIRIE	7-28-17	1300	7.52	SM4500HB	20°	SM2250-B	17H0276-04	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	*	*	
DS01	1042 WESTERN SPRINGS	7-28-17	1311	7.31	SM4500HB	19°	SM2250-B	17H0276-05	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	*	*	
DS01	22922 GOVERNORSHIRE	7-28-17	1320	7.45	SM4500HB	20°	SM2250-B	17H0276-06	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	*	*	
I acknowledge that the information on this form is true and correct and sites selected for sampling following TCEQ instructions including but not limited to the measurement of pH and temperature according to approved methods immediately upon collection (within 15 minutes) Malcolm BATES Name Signature Date 7-28-17								Containers ☒ 2 L plastic bottles ☐ 1 L preserved upon receipt		Conditions Upon Receipt ☒ Ice ☐ Ambient Temp Upon Receipt: 2.8/2.8 IR#2 Corrected Temp Upon Receipt: Comments:											
Relinquished By (Name, Signature)		Date		Time		Received By: (Name, Signature)		Date		Time											
[Signature]		7-28-17		1450		[Signature]		7/28/17		1450											
(For TCEQ use only) ☐ Disapproved ☐ Accepted Comments:																					