

29 March 2021

Si Environmental, LLC Mike Thornhill 6420 Reading Road Rosenberg, TX 77471

Fort Bend County MUD 190 - WQP

Enclosed are the results of analyses for samples received by the laboratory on 11-Mar-21 16:10. 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 10

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

Sincerely,

Kyle Chernosky For Sarah Chaplain

Client Services Representative

Kyl Y

TNI FABORATORY

Certificate No: T104704265-20-18

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



Client: Si Environmental, LLC

Project: Fort Bend County MUD 190 - WQP

Work Order: 21C2412 **PWS ID:** TX0790501

Reported:

29-Mar-21 08:25

ANALYTICAL REPORT FOR SAMPLES

	Sample ID		Laboratory ID	Matrix	Date Sampled	Date Received
EW	/QP	7403 HARLEM RD	21C2412-01	Water	11-Mar-21 14:25	11-Mar-21 16:10
DS	TWQP	18207 MORNINGSIDE DOWNS WAY	21C2412-02	Water	11-Mar-21 14:37	11-Mar-21 16:10
DS	TWQP	18207 GRAYSON BLUFF WAY	21C2412-03	Water	11-Mar-21 14:44	11-Mar-21 16:10

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Reported:

29-Mar-21 08:25

7403 HARLEM RD

21C2412-01 (Water) Sampled: 11-Mar-21 14:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Envirody	yne Labo	ratories, I	nc.				
Field Analysis										
рН	7.66		SU	1	B1C1843	11-Mar-21	11-Mar-21 14:25	SM4500H+ B	JAS	
Temperature	19.2	0.0	°C	1	B1C1843	11-Mar-21	11-Mar-21 14:25	SM2550 B	JAS	
Wet Chemistry										
Alkalinity (m) as CaCO3	101	20.0	mg/L	1	B1C2392	17-Mar-21	17-Mar-21 12:29	SM 2320 B	SNG	
Alkalinity (p) as CaCO3	<20.0	20.0	mg/L	1	B1C2392	17-Mar-21	17-Mar-21 12:29	SM 2320 B	SNG	
Total Alkalinity as CaCO3	101	20.0	mg/L	1	[CALC]	17-Mar-21	17-Mar-21 12:29	[CALC]	SNG	
Chloride	41.0	6.0	mg/L	2	B1C2441	18-Mar-21	18-Mar-21 10:48	SM4500 Cl-B	SNG	
Conductivity at 25 C	426	30	umho/cm	1	B1C2010	15-Mar-21	15-Mar-21 10:01	SM2510 B	SNG	
Sulfate	46.4	4.00	mg/L	2	B1C2016	15-Mar-21	15-Mar-21 12:38	ASTM D516-07	SNG	
TDS .	240	10.0	mg/L	1	B1C2339	17-Mar-21	17-Mar-21 11:00	SM2540 C	SMR	
Total Metals by ICP										
Calcium	43.5	2.00	mg/L	1	B1C2378	16-Mar-21	16-Mar-21 13:33	EPA 200.7	JPC	
Total Hardness as CaCO3	128	13.2	mg/L	1	[CALC]	16-Mar-21	16-Mar-21 13:33	SM 2340B	JPC	
ron	0.0824	0.0050	mg/L	1	B1C2378	17-Mar-21	20-Mar-21 18:28	EPA 200.7	JPC	
Magnesium	4.82	2.00	mg/L	1	B1C2378	16-Mar-21	16-Mar-21 13:33	EPA 200.7	JPC	
Manganese	0.0071	0.0050	mg/L	1	B1C2378	17-Mar-21	20-Mar-21 18:28	EPA 200.7	JPC	
Sodium	34.6	2.0	mg/L	1	B1C2378	16-Mar-21	16-Mar-21 13:33	EPA 200.7	JPC	

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18207 MORNINGSIDE DOWNS WAY

21C2412-02 (Water) Sampled: 11-Mar-21 14:37

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Envirody	yne Labo	ratories, I	nc.				
Field Analysis										
эH	7.63		SU	1	B1C1843	11-Mar-21	11-Mar-21 14:37	SM4500H+ B	JAS	
Temperature	22.9	0.0	°C	1	B1C1843	11-Mar-21	11-Mar-21 14:37	SM2550 B	JAS	
Wet Chemistry										
Alkalinity (m) as CaCO3	93.0	20.0	mg/L	1	B1C2392	17-Mar-21	17-Mar-21 12:29	SM 2320 B	SNG	
Alkalinity (p) as CaCO3	<20.0	20.0	mg/L	1	B1C2392	17-Mar-21	17-Mar-21 12:29	SM 2320 B	SNG	
Total Alkalinity as CaCO3	93.0	20.0	mg/L	1	[CALC]	17-Mar-21	17-Mar-21 12:29	[CALC]	SNG	
Chloride	41.0	6.0	mg/L	2	B1C2441	18-Mar-21	18-Mar-21 10:48	SM4500 Cl-B	SNG	
Conductivity at 25 C	421	30	umho/cm	1	B1C2010	15-Mar-21	15-Mar-21 10:01	SM2510 B	SNG	
Sulfate	47.4	4.00	mg/L	2	B1C2016	15-Mar-21	15-Mar-21 12:38	ASTM D516-07	SNG	
ΓDS	234	10.0	mg/L	1	B1C2339	17-Mar-21	17-Mar-21 11:00	SM2540 C	SMR	
Total Metals by ICP										
Calcium	40.8	2.00	mg/L	1	B1C2378	16-Mar-21	16-Mar-21 13:34	EPA 200.7	JPC	
Total Hardness as CaCO3	121	13.2	mg/L	1	[CALC]	16-Mar-21	16-Mar-21 13:34	SM 2340B	JPC	
ron	0.0099	0.0050	mg/L	1	B1C2378	17-Mar-21	20-Mar-21 18:28	EPA 200.7	JPC	
Magnesium	4.77	2.00	mg/L	1	B1C2378	16-Mar-21	16-Mar-21 13:34	EPA 200.7	JPC	
Manganese	< 0.0050	0.0050	mg/L	1	B1C2378	17-Mar-21	20-Mar-21 18:28	EPA 200.7	JPC	
Sodium	33.6	2.0	mg/L	1	B1C2378	16-Mar-21	16-Mar-21 13:34	EPA 200.7	JPC	

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Reported:

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18207 GRAYSON BLUFF WAY 21C2412-03 (Water) Sampled: 11-Mar-21 14:44

		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Envirody	ne Labo	ratories, I	nc.				
Field Analysis										
рН	7.56		SU	1	B1C1843	11-Mar-21	11-Mar-21 14:44	SM4500H+ B	JAS	
Temperature	19.9	0.0	°C	1	B1C1843	11-Mar-21	11-Mar-21 14:44	SM2550 B	JAS	
Wet Chemistry										
Alkalinity (m) as CaCO3	93.0	20.0	mg/L	1	B1C2392	17-Mar-21	17-Mar-21 12:29	SM 2320 B	SNG	
Alkalinity (p) as CaCO3	<20.0	20.0	mg/L	1	B1C2392	17-Mar-21	17-Mar-21 12:29	SM 2320 B	SNG	
Total Alkalinity as CaCO3	93.0	20.0	mg/L	1	[CALC]	17-Mar-21	17-Mar-21 12:29	[CALC]	SNG	
Chloride	42.0	6.0	mg/L	2	B1C2441	18-Mar-21	18-Mar-21 10:48	SM4500 Cl-B	SNG	
Conductivity at 25 C	420	30	umho/cm	1	B1C2010	15-Mar-21	15-Mar-21 10:01	SM2510 B	SNG	
Sulfate	48.2	4.00	mg/L	2	B1C2016	15-Mar-21	15-Mar-21 12:38	ASTM D516-07	SNG	
TDS	242	10.0	mg/L	1	B1C2339	17-Mar-21	17-Mar-21 11:00	SM2540 C	SMR	
Total Metals by ICP										
Calcium	40.9	2.00	mg/L	1	B1C2378	16-Mar-21	16-Mar-21 13:44	EPA 200.7	JPC	
Total Hardness as CaCO3	122	13.2	mg/L	1	[CALC]	16-Mar-21	16-Mar-21 13:44	SM 2340B	JPC	
Iron	0.0118	0.0050	mg/L	1	B1C2378	17-Mar-21	20-Mar-21 18:28	EPA 200.7	JPC	
Magnesium	4.77	2.00	mg/L	1	B1C2378	16-Mar-21	16-Mar-21 13:44	EPA 200.7	JPC	
Manganese	0.0055	0.0050	mg/L	1	B1C2378	17-Mar-21	20-Mar-21 18:28	EPA 200.7	JPC	
Sodium	33.9	2.0	mg/L	1	B1C2378	16-Mar-21	16-Mar-21 13:44	EPA 200.7	JPC	

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Wet Chemistry - Quality Control Envirodyne Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B1C2010 - Inorganics										
Blank (B1C2010-BLK1)				Prepared &	k Analyzed:	15-Mar-21				
Conductivity at 25 C	<30	30	umho/cm							
Duplicate (B1C2010-DUP1)	Sour	ce: 21C2416	5-01	Prepared &	k Analyzed:	15-Mar-21				
Conductivity at 25 C	749	30	umho/cm		749			0.00	20	
Reference (B1C2010-SRM1)				Prepared &	k Analyzed:	15-Mar-21				
Conductivity at 25 C	184		umho/cm	180		102	0-200			
Batch B1C2016 - Inorganics										
Blank (B1C2016-BLK1)				Prepared &	k Analyzed:	15-Mar-21				
Sulfate	<2.00	2.00	mg/L							
LCS (B1C2016-BS1)				Prepared &	k Analyzed:	15-Mar-21				
Sulfate	21.0		mg/L	20.0		105	90-110			
Matrix Spike (B1C2016-MS1)	Sour	ce: 21C2411	-03	Prepared &	k Analyzed:	15-Mar-21				
Sulfate	41.4	4.00	mg/L	20.0	19.5	110	80-120			
Matrix Spike Dup (B1C2016-MSD1)	Sour	ce: 21C2411	-03	Prepared &	ե Analyzed:	15-Mar-21				
Sulfate	43.0	4.00	mg/L	20.0	19.5	118	80-120	3.79	20	
Batch B1C2339 - Inorganics										
Blank (B1C2339-BLK1)				Prepared &	k Analyzed:	17-Mar-21				
TDS	<10.0	10.0	mg/L							

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Wet Chemistry - Quality Control Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1C2339 - Inorganics										
Duplicate (B1C2339-DUP1)	Sou	rce: 21C2411-	04	Prepared &	: Analyzed:	17-Mar-21	_		_	
TDS	280	10.0	mg/L	-	276			1.44	20	
Batch B1C2392 - Inorganics										
Blank (B1C2392-BLK1)				Prepared &	Analyzed:	17-Mar-21				
Alkalinity (m) as CaCO3	<20.0	20.0	mg/L							
Alkalinity (p) as CaCO3	<20.0	20.0	"							
LCS (B1C2392-BS1)				Prepared &	Analyzed:	17-Mar-21				
Alkalinity (m) as CaCO3	54.0		mg/L	50.0		108	90-110			
Alkalinity (p) as CaCO3	52.0		"	50.0		104	90-110			
Duplicate (B1C2392-DUP1)	Sou	rce: 21C2412-	01	Prepared &	Analyzed:	17-Mar-21				
Alkalinity (m) as CaCO3	113	20.0	mg/L		101			11.2	20	
Alkalinity (p) as CaCO3	<20.0	20.0	"		<20.0			0	20	
Batch B1C2441 - Inorganics										
Blank (B1C2441-BLK1)				Prepared &	: Analyzed:	18-Mar-21				
Chloride	<3.0	3.0	mg/L							
LCS (B1C2441-BS1)				Prepared &	18-Mar-21					
Chloride	102		mg/L	100	102	90-110				
Matrix Spike (B1C2441-MS1)	Sou	rce: 21C2417-	02	Prepared &	: Analyzed:	18-Mar-21				
Chloride	59.0	6.0	mg/L	20.0	37.0	110	80-120			

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29-Mar-21 08:25

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD		ı
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	ı

Batch B1C2441 - Inorganics

Matrix Spike Dup (B1C2441-MSD1)	Source:	21C2417-	02	Prepared &	: Analyzed:	18-Mar-21				
Chloride	58.0	6.0	mg/L	20.0	37.0	105	80-120	1.71	20	

Envirodyne Laboratories, Inc.

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Reported:

29-Mar-21 08:25

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
Batch B1C2378 - Metals - EPA 200.2										
Blank (B1C2378-BLK1)				Prepared: 1	16-Mar-21 A	nalyzed: 1	9-Mar-21			
Calcium	<2.00	2.00	mg/L							
Iron	< 0.0050	0.0050	"							
Sodium	<2.0	2.0	"							
Manganese	< 0.0050	0.0050	"							
Magnesium	<2.00	2.00	"							
LCS (B1C2378-BS1)				Prepared: 1	16-Mar-21 A	Analyzed: 1	9-Mar-21			
Calcium	20.2		mg/L	20.0		101	85-115			
Iron	259		ug/L	250		104	85-115			
Magnesium	20.6		mg/L	20.0		103	85-115			
Manganese	259		ug/L	250		104	85-115			
Sodium	20.4		mg/L	20.0		102	85-115			
Matrix Spike (B1C2378-MS1)	Sou	rce: 21C2410-	01	Prepared &	ե Analyzed:	16-Mar-21				
Calcium	90.2	4.00	mg/L	40.0	55.9	85.6	70-130			
Iron	1.02	0.0100	"	1.00	0.00782	101	70-130			
Magnesium	53.0	4.00	"	40.0	12.1	102	70-130			
Manganese	1.02	0.0100	"	1.00	0.00155	101	70-130			
Sodium	107	4.0	"	40.0	65.9	102	70-130			
Matrix Spike Dup (B1C2378-MSD1)	Sou	Prepared &	k Analyzed:	16-Mar-21						
Calcium	95.9	4.00	mg/L	40.0	55.9	99.9	70-130	6.16	20	
Magnesium	52.6	4.00	"	40.0	12.1	101	70-130	0.776	20	
Manganese	1.02	0.0100	"	1.00	0.00155	102	70-130	0.393	20	
Sodium	105	4.0	"	40.0	65.9	98.3	70-130	1.29	20	
Iron	1.02	0.0100	"	1.00	0.00782	101	70-130	0.00	20	

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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.

Kyl Y

TCE				v					NTAL QUALITY RING FORM 200	679										
			Com	pleted by PW							Con	nple	ted	by I	abo	rato	ry			
	PWS Name:	Fort	Bend County	MUD '	190				Labor	atory Name:	Envirodyne Labora	torie	es,	Inc.						
	PWS ID#:	TX 07	90501						тс	EQ Lab ID #:	TX-288									
,	PWS Address:	6420	Reading Rd,	Roser	nberg,	TX 77	471				11011 Brooklet Dr #230									
	PWS Contact:	Mike	e Thornhill						Laborat	ory Address:	Houston, TX 77099	è								
PWS Cont	tact Phone #:	832-	490-1507		100 TO 10				Laborat	ory Contact:	Laura Ponionia									
Inhibi	tor or Stablizer I	Jsed (√):	Phosphate	Silica		Calcium ca	rbonate	-1	Laborat	ory contact.	: Laura Bonjonia									
TF	REATMENT		Alkalinity Dosage Rate:	Inhibitor Do	sage Rate:				Laboratory Co	ntact Phone	281-568-7880									
				Sample Infor	mation															
	Sample '	Type (√):	/ Compliance	Non-com	pliance						Parameters Requeste checked. * If inhibitors of									
	Sample Colle	ector (√):	Public Water System						AL TX-288		these parameters should also be analyzed depending on which is									n is in
Temp	perature and pH	(Y or N):	Y Are temperature and pH included Laboratory Approval Form on file	e at the TCEQ? Y were temperature and pri measured collection?					in the field within 15 m	inutes of sample				usc.						
	Sample			Sample Collection Field Measuremen			surements	ent?		1.00		(23)	(e	(4	1064)	15)	1032)	6		(1044)
Facility ID (e.g. DS01,	Point ID (e.g. DSTWQP,			Date	Time - 24 hr			me:	Original Sample	Original Sample Date		Alkalinity (1927	alcium (1919)	Chloride (1017)	ictiv	Hardness (1915)	Manganese (1032)	Sodium (1052)	Sulfate (1055) TDS (1930)	O-Phosphate (1044) *
PBCU001)	EWQP)	7400	Sample Location	(MMDDYY)	(HHMM)	pH	Temp (°C)	A.	ID#	(MMDDYY)			Cal							O is
PBCU001	EWQP	7403	Harlem Rd	121180	1425	766	177				2102412-01	V	√	√	١ ٧	V v	/ \	V	√	
DS01	DSTWQP	18207 N	Morningside Downs Way	031121	1437	763	22.9				2102412-02	√	√	√	۷,	V v	/ \	√ .	√	
DS01	DSTWQP	18207	Grayson Bluff Way	151160	1444	7.56	129				2102412-03	V	V	√	٧ \	/ v	/ \	√ .	V V	
1												√	√	V	٧ ١	V v	/ \	√ .	√ √	
												√	√	V	V 1	V v	/ \	√ .	V V	
												√	V	V	٧ 'v	/ v	/ \	√ .	√ √	
Parameters. This	includes, but not I	imited to the	rue and correct and sites selected for e measurement of pH and temperatur								Sample Samples received unprese	Cont	ditio	ns Up	on Re	eceip	t (√)	Ambi	ont	
under state and/or federal law. (Texas Penal Code, Title 8, Chapter 37.10)											Rejection Code (if applicable)	T		1	Actual		rected	L Chica	/	1211
Name of Authorized PWS Representative (Print) Signature Organization Date											Date & Time of Sample Preservation	9		san	nple te	mper	ature:	1-1		5.9
Chain of Custo	EFF SI	4AC	101	~		ELI			3-11-21		(Acidified):	0		T	nermo	mete	r ID #:	10	+1	-1
Relinquished By (Date/Time:		ed By Courier (Signature)	2		Date/Time:	Laboratory Comments:									
	2			3-11-51 16																
Received By Cour	ier (Signature)			Date/Time:	Received	By Lab (Signa	ature)			Date/Time: 7-1/-21 /6/0										
TCEQ 20679 (Rev	01/2018)					1 4	rie periodina					2019	80		- 200	10000	ASSON.	(Ver	Charles .	