



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

09 August 2018

Water Utility Services

Steve Grychka

21617 Rhodes Rd

Spring, TX 77383

HCMUD #537 - WQP

Enclosed are the results of analyses for samples received by the laboratory on 19-Jul-18 16:30. 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 12

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, appearing to read 'K. Chernosky'.

Kyle Chernosky For Monica Smith
Project Manager



Certificate No: T104704265-18-14



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Client: Water Utility Services
Project: HCMUD #537 - WQP
Work Order: 18G2406
PWS ID: TX1013586

Reported:
09-Aug-18 15:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EWQP	PBCU001 - TRT-TAP - 703 SOMERSET	Water	19-Jul-18 15:42	19-Jul-18 16:30
EWQP	PBCU002 - TRT-TAP - OLD KATY / SC	Water	19-Jul-18 15:53	19-Jul-18 16:30
DSTWQP	DS01 - 711 SOMERSET COMMONS	Water	19-Jul-18 16:01	19-Jul-18 16:30
DSTWQP	DS01 - 835 DUNLEIGH MEADOWS	Water	19-Jul-18 16:14	19-Jul-18 16:30

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Kyle Chernosky For Monica Smith, Project Manager



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Client: Water Utility Services
Project: HCMUD #537 - WQP
Work Order: 18G2406
PWS ID: TX1013586

Reported:
09-Aug-18 15:35

PBCU001 - TRT-TAP - 703 SOMERSET COMMONS
18G2406-01 (Water) Sampled: 19-Jul-18 15:42

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Field Analysis

pH	7.51		SU	1	B8G2624	19-Jul-18	19-Jul-18 15:42	SM4500H+ B	KLC	
Temperature	30.4	10.0	°C	1	B8G2624	19-Jul-18	19-Jul-18 15:42	SM2550 B	KLC	

Wet Chemistry

Alkalinity (m) as CaCO ₃	124	20	mg/L	1	B8G2346	20-Jul-18	20-Jul-18 08:15	SM 2320 B	AT	
Alkalinity (p) as CaCO ₃	<20	20	mg/L	1	B8G2346	20-Jul-18	20-Jul-18 08:15	SM 2320 B	AT	
Total Alkalinity as CaCO ₃	124	20	mg/L	1	[CALC]	20-Jul-18	20-Jul-18 08:15	[CALC]	AT	
Conductivity	374	10	uS/cm	1	B8G2900	23-Jul-18	23-Jul-18 13:05	SM2510 B	TS	
TDS	226	10.0	mg/L	1	B8G3097	25-Jul-18	25-Jul-18 12:50	SM2540 C	JCR	

Total Metals by ICP

Calcium	43.2	0.07	mg/L	1	B8G3150	24-Jul-18	25-Jul-18 15:20	EPA 200.7	XQH	
Total Hardness as CaCO ₃	123	0.79	mg/L	1	[CALC]	24-Jul-18	25-Jul-18 15:20	SM 2340B	XQH	
Iron	0.0665	0.0037	mg/L	1	B8G3145	24-Jul-18	25-Jul-18 12:24	EPA 200.7	XQH	
Magnesium	3.69	0.15	mg/L	1	B8G3150	24-Jul-18	25-Jul-18 15:20	EPA 200.7	XQH	
Manganese	0.0029	0.0005	mg/L	1	B8G3145	24-Jul-18	25-Jul-18 12:24	EPA 200.7	XQH	
Sodium	25.7	0.03	mg/L	1	B8G3150	24-Jul-18	25-Jul-18 15:20	EPA 200.7	XQH	

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Work Order: 18G2406
PWS ID: TX1013586

Reported:
09-Aug-18 15:35

PBCU002 - TRT-TAP - OLD KATY / SOMERSET GARDENS
18G2406-02 (Water) Sampled: 19-Jul-18 15:53

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Field Analysis

pH	7.56		SU	1	B8G2624	19-Jul-18	19-Jul-18 15:53	SM4500H+ B	KLC	
Temperature	29.7	10.0	°C	1	B8G2624	19-Jul-18	19-Jul-18 15:53	SM2550 B	KLC	

Wet Chemistry

Alkalinity (m) as CaCO ₃	84	20	mg/L	1	B8G2692	20-Jul-18	23-Jul-18 08:21	SM 2320 B	AT	
Alkalinity (p) as CaCO ₃	<20	20	mg/L	1	B8G2692	20-Jul-18	23-Jul-18 08:21	SM 2320 B	AT	
Total Alkalinity as CaCO ₃	84	20	mg/L	1	[CALC]	20-Jul-18	23-Jul-18 08:21	[CALC]	AT	
Conductivity	373	10	uS/cm	1	B8G2900	23-Jul-18	23-Jul-18 13:05	SM2510 B	TS	
TDS	226	10.0	mg/L	1	B8G3097	25-Jul-18	25-Jul-18 12:50	SM2540 C	JCR	

Total Metals by ICP

Calcium	43.4	0.07	mg/L	1	B8G3150	24-Jul-18	25-Jul-18 15:14	EPA 200.7	XQH	
Total Hardness as CaCO ₃	124	0.79	mg/L	1	[CALC]	24-Jul-18	25-Jul-18 15:14	SM 2340B	XQH	
Iron	0.0961	0.0037	mg/L	1	B8G3145	24-Jul-18	25-Jul-18 12:21	EPA 200.7	XQH	
Magnesium	3.68	0.15	mg/L	1	B8G3150	24-Jul-18	25-Jul-18 15:14	EPA 200.7	XQH	
Manganese	0.0030	0.0005	mg/L	1	B8G3145	24-Jul-18	25-Jul-18 12:21	EPA 200.7	XQH	
Sodium	25.9	0.03	mg/L	1	B8G3150	24-Jul-18	25-Jul-18 15:14	EPA 200.7	XQH	

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Project: HCMUD #537 - WQP
Work Order: 18G2406
PWS ID: TX1013586

Reported:
09-Aug-18 15:35

DS01 - 711 SOMERSET COMMONS
18G2406-03 (Water) Sampled: 19-Jul-18 16:01

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Field Analysis

pH	7.54		SU	1	B8G2624	19-Jul-18	19-Jul-18 16:01	SM4500H+ B	KLC	
Temperature	29.9	10.0	°C	1	B8G2624	19-Jul-18	19-Jul-18 16:01	SM2550 B	KLC	

Wet Chemistry

Alkalinity (m) as CaCO ₃	92	20	mg/L	1	B8G2692	20-Jul-18	23-Jul-18 08:21	SM 2320 B	AT	
Alkalinity (p) as CaCO ₃	<20	20	mg/L	1	B8G2692	20-Jul-18	23-Jul-18 08:21	SM 2320 B	AT	
Total Alkalinity as CaCO ₃	92	20	mg/L	1	[CALC]	20-Jul-18	23-Jul-18 08:21	[CALC]	AT	
Conductivity	373	10	uS/cm	1	B8G2900	23-Jul-18	23-Jul-18 13:05	SM2510 B	TS	
TDS	224	10.0	mg/L	1	B8G3097	25-Jul-18	25-Jul-18 12:50	SM2540 C	JCR	

Total Metals by ICP

Calcium	43.2	0.07	mg/L	1	B8G3150	24-Jul-18	25-Jul-18 15:12	EPA 200.7	XQH	
Total Hardness as CaCO ₃	123	0.79	mg/L	1	[CALC]	24-Jul-18	25-Jul-18 15:12	SM 2340B	XQH	
Iron	0.0672	0.0037	mg/L	1	B8G3145	24-Jul-18	25-Jul-18 12:18	EPA 200.7	XQH	
Magnesium	3.71	0.15	mg/L	1	B8G3150	24-Jul-18	25-Jul-18 15:12	EPA 200.7	XQH	
Manganese	0.0030	0.0005	mg/L	1	B8G3145	24-Jul-18	25-Jul-18 12:18	EPA 200.7	XQH	
Sodium	26.0	0.03	mg/L	1	B8G3150	24-Jul-18	25-Jul-18 15:12	EPA 200.7	XQH	

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Project: HCMUD #537 - WQP
Work Order: 18G2406
PWS ID: TX1013586

Reported:
09-Aug-18 15:35

DS01 - 835 DUNLEIGH MEADOWS
18G2406-04 (Water) Sampled: 19-Jul-18 16:14

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Field Analysis

pH	7.42		SU	1	B8G2624	19-Jul-18	19-Jul-18 16:14	SM4500H+ B	KLC	
Temperature	30.1	10.0	°C	1	B8G2624	19-Jul-18	19-Jul-18 16:14	SM2550 B	KLC	

Wet Chemistry

Alkalinity (m) as CaCO ₃	96	20	mg/L	1	B8G2692	20-Jul-18	23-Jul-18 08:21	SM 2320 B	AT	
Alkalinity (p) as CaCO ₃	<20	20	mg/L	1	B8G2692	20-Jul-18	23-Jul-18 08:21	SM 2320 B	AT	
Total Alkalinity as CaCO ₃	96	20	mg/L	1	[CALC]	20-Jul-18	23-Jul-18 08:21	[CALC]	AT	
Conductivity	374	10	uS/cm	1	B8G2900	23-Jul-18	23-Jul-18 13:05	SM2510 B	TS	
TDS	220	10.0	mg/L	1	B8G3098	25-Jul-18	25-Jul-18 13:10	SM2540 C	JCR	

Total Metals by ICP

Calcium	43.7	0.07	mg/L	1	B8G3149	24-Jul-18	25-Jul-18 14:45	EPA 200.7	XQH	
Total Hardness as CaCO ₃	124	0.79	mg/L	1	[CALC]	24-Jul-18	25-Jul-18 14:45	SM 2340B	XQH	
Iron	0.0525	0.0037	mg/L	1	B8G3144	24-Jul-18	25-Jul-18 11:42	EPA 200.7	XQH	
Magnesium	3.72	0.15	mg/L	1	B8G3149	24-Jul-18	25-Jul-18 14:45	EPA 200.7	XQH	
Manganese	0.0028	0.0005	mg/L	1	B8G3144	24-Jul-18	25-Jul-18 11:42	EPA 200.7	XQH	
Sodium	26.2	0.03	mg/L	1	B8G3149	24-Jul-18	25-Jul-18 14:45	EPA 200.7	XQH	

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Work Order: 18G2406
PWS ID: TX1013586

Reported:
09-Aug-18 15:35

Wet Chemistry - Quality Control
Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8G2346 - Inorganics										
Blank (B8G2346-BLK1)				Prepared & Analyzed: 20-Jul-18						
Alkalinity (m) as CaCO ₃	<20	20	mg/L							
Alkalinity (p) as CaCO ₃	<20	20	"							
LCS (B8G2346-BS1)				Prepared & Analyzed: 20-Jul-18						
Alkalinity (m) as CaCO ₃	52		mg/L	50.0		104	80-120			
Alkalinity (p) as CaCO ₃	49		"	50.0		98.0	80-120			
Duplicate (B8G2346-DUP1)				Source: 18G2069-01		Prepared & Analyzed: 20-Jul-18				
Alkalinity (m) as CaCO ₃	170	20	mg/L		168			1.18	20	
Alkalinity (p) as CaCO ₃	<20	20	"		<20			0	20	
Batch B8G2692 - Inorganics										
Blank (B8G2692-BLK1)				Prepared: 20-Jul-18 Analyzed: 23-Jul-18						
Alkalinity (m) as CaCO ₃	<20	20	mg/L							
Alkalinity (p) as CaCO ₃	<20	20	"							
LCS (B8G2692-BS1)				Prepared: 20-Jul-18 Analyzed: 23-Jul-18						
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 (B8G2692-DUP1)				Source: 18G2406-03		Prepared: 20-Jul-18 Analyzed: 23-Jul-18				
Alkalinity (m) as CaCO ₃	92	20	mg/L		92			0.00	20	
Alkalinity (p) as CaCO ₃	<20	20	"		<20			0	20	
Batch B8G2900 - Inorganics										
Blank (B8G2900-BLK1)				Prepared & Analyzed: 23-Jul-18						
Conductivity	<10	10	uS/cm							

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Work Order: 18G2406
PWS ID: TX1013586

Reported:
09-Aug-18 15:35

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 B8G2900 - Inorganics

Duplicate (B8G2900-DUP1)		Source: 18G2403-03		Prepared & Analyzed: 23-Jul-18						
Conductivity	500	10	uS/cm		500			0.00	20	
Reference (B8G2900-SRM1)				Prepared & Analyzed: 23-Jul-18						
Conductivity	182		uS/cm	180		101	0-200			

Batch B8G3097 - Inorganics

Blank (B8G3097-BLK1)				Prepared & Analyzed: 25-Jul-18						
TDS	<10.0	10.0	mg/L							
Duplicate (B8G3097-DUP1)		Source: 18G2402-03		Prepared & Analyzed: 25-Jul-18						
TDS	218	10.0	mg/L		218			0.00	20	

Batch B8G3098 - Inorganics

Blank (B8G3098-BLK1)				Prepared & Analyzed: 25-Jul-18						
TDS	<10.0	10.0	mg/L							
Duplicate (B8G3098-DUP1)		Source: 18G2406-04		Prepared & Analyzed: 25-Jul-18						
TDS	224	10.0	mg/L		220			1.80	20	

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PWS ID: TX1013586

Reported:
09-Aug-18 15:35

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 B8G3144 - Metals - EPA 200.2

Blank (B8G3144-BLK1)

Prepared: 24-Jul-18 Analyzed: 25-Jul-18

Manganese	<0.0005	0.0005	mg/L
Iron	<0.0037	0.0037	"

LCS (B8G3144-BS1)

Prepared: 24-Jul-18 Analyzed: 25-Jul-18

Manganese	259		ug/L	250		104	85-115
Iron	261		"	250		104	85-115

Matrix Spike (B8G3144-MS1)

Source: 18G2401-10

Prepared: 24-Jul-18 Analyzed: 25-Jul-18

Iron	0.564	0.0037	mg/L	0.500	0.0854	95.7	70-130
Manganese	0.514	0.0005	"	0.500	0.0283	97.1	70-130

Matrix Spike Dup (B8G3144-MSD1)

Source: 18G2401-10

Prepared: 24-Jul-18 Analyzed: 25-Jul-18

Manganese	0.507	0.0005	mg/L	0.500	0.0283	95.7	70-130	1.41	20
Iron	0.555	0.0037	"	0.500	0.0854	94.0	70-130	1.56	20

Batch B8G3145 - Metals - EPA 200.2

Blank (B8G3145-BLK1)

Prepared: 24-Jul-18 Analyzed: 25-Jul-18

Manganese	<0.0005	0.0005	mg/L
Iron	<0.0037	0.0037	"

LCS (B8G3145-BS1)

Prepared: 24-Jul-18 Analyzed: 25-Jul-18

Iron	251		ug/L	250		101	85-115
Manganese	255		"	250		102	85-115

Matrix Spike (B8G3145-MS1)

Source: 18G2402-03

Prepared: 24-Jul-18 Analyzed: 25-Jul-18

Manganese	0.486	0.0005	mg/L	0.500	0.00293	96.6	70-130
Iron	0.480	0.0037	"	0.500	ND	95.9	70-130

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09-Aug-18 15:35

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 B8G3145 - Metals - EPA 200.2

Matrix Spike Dup (B8G3145-MSD1)		Source: 18G2402-03		Prepared: 24-Jul-18 Analyzed: 25-Jul-18						
Manganese	0.487	0.0005	mg/L	0.500	0.00293	96.8	70-130	0.199	20	
Iron	0.481	0.0037	"	0.500	ND	96.1	70-130	0.247	20	

Batch B8G3149 - Metals - EPA 200.2

Blank (B8G3149-BLK1)		Prepared: 24-Jul-18 Analyzed: 25-Jul-18								
Calcium	<0.07	0.07	mg/L							
Sodium	<0.03	0.03	"							
Magnesium	<0.15	0.15	"							

LCS (B8G3149-BS1)		Prepared: 24-Jul-18 Analyzed: 25-Jul-18								
Sodium	20.6		mg/L	20.0		103	85-115			
Calcium	20.8		"	20.0		104	85-115			
Magnesium	20.8		"	20.0		104	85-115			

Matrix Spike (B8G3149-MS1)		Source: 18G2401-10		Prepared: 24-Jul-18 Analyzed: 25-Jul-18						
Sodium	37.7	0.03	mg/L	20.0	17.7	99.6	70-130			
Calcium	75.4	0.07	"	20.0	56.0	96.8	70-130			
Magnesium	24.3	0.15	"	20.0	3.75	103	70-130			

Matrix Spike Dup (B8G3149-MSD1)		Source: 18G2401-10		Prepared: 24-Jul-18 Analyzed: 25-Jul-18						
Magnesium	24.3	0.15	mg/L	20.0	3.75	103	70-130	0.0112	20	
Sodium	37.5	0.03	"	20.0	17.7	98.6	70-130	0.545	20	
Calcium	74.6	0.07	"	20.0	56.0	92.8	70-130	1.07	20	

Batch B8G3150 - Metals - EPA 200.2

Blank (B8G3150-BLK1)		Prepared: 24-Jul-18 Analyzed: 25-Jul-18								
Magnesium	<0.15	0.15	mg/L							
Sodium	<0.03	0.03	"							
Calcium	<0.07	0.07	"							

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PWS ID: TX1013586

Reported:
09-Aug-18 15:35

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 B8G3150 - Metals - EPA 200.2

LCS (B8G3150-BS1)

Prepared: 24-Jul-18 Analyzed: 25-Jul-18

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

Matrix Spike (B8G3150-MS1)

Source: 18G2402-03

Prepared: 24-Jul-18 Analyzed: 25-Jul-18

Sodium	52.4	0.03	mg/L	20.0	31.9	103	70-130			
Calcium	58.3	0.07	"	20.0	37.7	103	70-130			
Magnesium	23.8	0.15	"	20.0	3.46	102	70-130			

Matrix Spike Dup (B8G3150-MSD1)

Source: 18G2402-03

Prepared: 24-Jul-18 Analyzed: 25-Jul-18

Calcium	58.9	0.07	mg/L	20.0	37.7	106	70-130	0.902	20	
Sodium	52.9	0.03	"	20.0	31.9	105	70-130	0.969	20	
Magnesium	23.8	0.15	"	20.0	3.46	101	70-130	0.145	20	

Envirodyne Laboratories, 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.

Kyle Chernosky For Monica Smith, Project Manager



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Client: Water Utility Services
Project: HCMUD #537 - WQP
Work Order: 18G2406
PWS ID: TX1013586

Reported:
09-Aug-18 15:35

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, appearing to read 'Kyle Chernosky', is written over a light blue rectangular background.

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Kyle Chernosky For Monica Smith, Project Manager

