



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

12 November 2019

Gulf Utility  
Michael Williams  
P.O Box 1629  
Spring, TX 77383

#### **River Club Water - WQP**

Enclosed are the results of analyses for samples received by the laboratory on 29-Oct-19 17:05. 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 9

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 'Kyle Chernosky'.

Kyle Chernosky For Ike Nkaginieme  
Project Coordinator



Certificate No: T104704265-19-16



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**Client:** Gulf Utility  
**Project:** River Club Water - WQP  
**Work Order:** 19J4137  
**PWS ID:** TX1700185

**Reported:**  
12-Nov-19 09:32

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID		Laboratory ID	Matrix	Date Sampled	Date Received
EWQP	PBCU001 TRT-TAP-SORTERS RD	19J4137-01	Water	29-Oct-19 13:12	29-Oct-19 17:05
DSTWQP	DS01 11931 RIVER RIDGE LN	19J4137-02	Water	29-Oct-19 13:00	29-Oct-19 17:05

Envirodyne Laboratories, Inc.

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**PBCU001 TRT-TAP-SORTERS RD**  
**19J4137-01 (Water) Sampled: 29-Oct-19 13:12**

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

**Field Analysis**

<b>pH</b>	<b>7.58</b>		SU	1	B9J4236	29-Oct-19	29-Oct-19 13:12	SM4500H+ B	CBA	
<b>Temperature</b>	<b>26.1</b>	10.0	°C	1	B9J4236	29-Oct-19	29-Oct-19 13:12	SM2550 B	CBA	

**Wet Chemistry**

<b>Alkalinity (m) as CaCO<sub>3</sub></b>	<b>160</b>	20.0	mg/L	1	B9K0063	01-Nov-19	01-Nov-19 11:37	SM 2320 B	SNG	
Alkalinity (p) as CaCO <sub>3</sub>	<20.0	20.0	mg/L	1	B9K0063	01-Nov-19	01-Nov-19 11:37	SM 2320 B	SNG	
<b>Total Alkalinity as CaCO<sub>3</sub></b>	<b>160</b>	20.0	mg/L	1	[CALC]	01-Nov-19	01-Nov-19 11:37	[CALC]	SNG	
<b>Conductivity</b>	<b>487</b>	30	uS/cm	1	B9J4402	01-Nov-19	01-Nov-19 09:40	SM2510 B	SNG	
<b>OrthoPhosphate as P</b>	<b>0.81</b>	0.10	mg/L	1	B9J4018	30-Oct-19	30-Oct-19 10:07	SM4500-P E	AT	
<b>TDS</b>	<b>526</b>	10.0	mg/L	1	B9K0367	04-Nov-19	05-Nov-19 15:20	SM2540 C	MNF	

**Total Metals by ICP**

<b>Calcium</b>	<b>54.2</b>	2.00	mg/L	1	B9K1310	08-Nov-19	11-Nov-19 17:03	EPA 200.7	JPC	
<b>Total Hardness as CaCO<sub>3</sub></b>	<b>161</b>	13.2	mg/L	1	[CALC]	08-Nov-19	11-Nov-19 17:03	SM 2340B	JPC	
Iron	<0.0050	0.0050	mg/L	1	B9K1314	11-Nov-19	11-Nov-19 16:57	EPA 200.7	JPC	
<b>Magnesium</b>	<b>6.22</b>	2.00	mg/L	1	B9K1310	08-Nov-19	11-Nov-19 17:03	EPA 200.7	JPC	
Manganese	<0.0050	0.0050	mg/L	1	B9K1314	11-Nov-19	11-Nov-19 16:57	EPA 200.7	JPC	
<b>Sodium</b>	<b>24.3</b>	2.0	mg/L	1	B9K1310	08-Nov-19	11-Nov-19 17:03	EPA 200.7	JPC	

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12-Nov-19 09:32

**DS01 11931 RIVER RIDGE LN**  
**19J4137-02 (Water) Sampled: 29-Oct-19 13:00**

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

**Field Analysis**

<b>pH</b>	<b>7.42</b>		SU	1	B9J4236	29-Oct-19	29-Oct-19 13:00	SM4500H+ B	CBA	
<b>Temperature</b>	<b>26.1</b>	10.0	°C	1	B9J4236	29-Oct-19	29-Oct-19 13:00	SM2550 B	CBA	

**Wet Chemistry**

<b>Alkalinity (m) as CaCO<sub>3</sub></b>	<b>148</b>	20.0	mg/L	1	B9K0063	01-Nov-19	01-Nov-19 11:37	SM 2320 B	SNG	
Alkalinity (p) as CaCO <sub>3</sub>	<20.0	20.0	mg/L	1	B9K0063	01-Nov-19	01-Nov-19 11:37	SM 2320 B	SNG	
<b>Total Alkalinity as CaCO<sub>3</sub></b>	<b>148</b>	20.0	mg/L	1	[CALC]	01-Nov-19	01-Nov-19 11:37	[CALC]	SNG	
<b>Conductivity</b>	<b>477</b>	30	uS/cm	1	B9J4402	01-Nov-19	01-Nov-19 09:40	SM2510 B	SNG	
<b>OrthoPhosphate as P</b>	<b>0.65</b>	0.10	mg/L	1	B9J4018	30-Oct-19	30-Oct-19 10:07	SM4500-P E	AT	
<b>TDS</b>	<b>318</b>	10.0	mg/L	1	B9K0367	04-Nov-19	05-Nov-19 15:20	SM2540 C	MNF	

**Total Metals by ICP**

<b>Calcium</b>	<b>55.8</b>	2.00	mg/L	1	B9K1310	08-Nov-19	11-Nov-19 17:03	EPA 200.7	JPC	
<b>Total Hardness as CaCO<sub>3</sub></b>	<b>165</b>	13.2	mg/L	1	[CALC]	08-Nov-19	11-Nov-19 17:03	SM 2340B	JPC	
Iron	<0.0050	0.0050	mg/L	1	B9K1314	11-Nov-19	11-Nov-19 16:57	EPA 200.7	JPC	
<b>Magnesium</b>	<b>6.32</b>	2.00	mg/L	1	B9K1310	08-Nov-19	11-Nov-19 17:03	EPA 200.7	JPC	
Manganese	<0.0050	0.0050	mg/L	1	B9K1314	11-Nov-19	11-Nov-19 16:57	EPA 200.7	JPC	
<b>Sodium</b>	<b>24.7</b>	2.0	mg/L	1	B9K1310	08-Nov-19	11-Nov-19 17:03	EPA 200.7	JPC	

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**Work Order:** 19J4137  
**PWS ID:** TX1700185

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12-Nov-19 09:32

**Wet Chemistry - Quality Control**  
**Envirodyne Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9J4018 - Inorganics</b>										
<b>Blank (B9J4018-BLK1)</b>				Prepared & Analyzed: 30-Oct-19						
OrthoPhosphate as P	<0.10	0.10	mg/L							
<b>LCS (B9J4018-BS1)</b>				Prepared & Analyzed: 30-Oct-19						
OrthoPhosphate as P	0.990		mg/L	1.00		99.0	80-120			
<b>Matrix Spike (B9J4018-MS1)</b>				Source: 19J4139-11 Prepared & Analyzed: 30-Oct-19						
OrthoPhosphate as P	0.630	0.10	mg/L	0.333	0.290	102	80-120			
<b>Matrix Spike Dup (B9J4018-MSD1)</b>				Source: 19J4139-11 Prepared & Analyzed: 30-Oct-19						
OrthoPhosphate as P	0.630	0.10	mg/L	0.333	0.290	102	80-120	0.00	20	
<b>Batch B9J4402 - Inorganics</b>										
<b>Blank (B9J4402-BLK1)</b>				Prepared & Analyzed: 01-Nov-19						
Conductivity	<30	30	uS/cm							
<b>Duplicate (B9J4402-DUP1)</b>				Source: 19J4193-01 Prepared & Analyzed: 01-Nov-19						
Conductivity	61.8	30	uS/cm		61.8			0.00	20	
<b>Reference (B9J4402-SRM1)</b>				Prepared & Analyzed: 01-Nov-19						
Conductivity	177		uS/cm	180		98.3	0-200			
<b>Batch B9K0063 - Inorganics</b>										
<b>Blank (B9K0063-BLK1)</b>				Prepared & Analyzed: 01-Nov-19						
Alkalinity (m) as CaCO <sub>3</sub>	<20.0	20.0	mg/L							
Alkalinity (p) as CaCO <sub>3</sub>	<20.0	20.0	"							

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**PWS ID:** TX1700185

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12-Nov-19 09:32

**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 B9K0063 - Inorganics**

**LCS (B9K0063-BS1)**

Prepared & Analyzed: 01-Nov-19

Alkalinity (m) as CaCO <sub>3</sub>	51.0		mg/L	50.0		102	90-110			
Alkalinity (p) as CaCO <sub>3</sub>	50.0		"	50.0		100	90-110			

**Duplicate (B9K0063-DUP1)**

Source: 19J3736-07

Prepared & Analyzed: 01-Nov-19

Alkalinity (m) as CaCO <sub>3</sub>	34.0	20.0	mg/L		40.0			16.2	20	
Alkalinity (p) as CaCO <sub>3</sub>	<20.0	20.0	"		<20.0			0	20	

**Batch B9K0367 - Inorganics**

**Blank (B9K0367-BLK1)**

Prepared & Analyzed: 04-Nov-19

TDS	<10.0	10.0	mg/L							
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**Duplicate (B9K0367-DUP1)**

Source: 19J3682-01

Prepared & Analyzed: 04-Nov-19

TDS	488	10.0	mg/L		478			2.07	20	
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**Work Order:** 19J4137  
**PWS ID:** TX1700185

**Reported:**  
12-Nov-19 09:32

**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 B9K1310 - Metals - EPA 200.2**

**Blank (B9K1310-BLK1)**

Prepared: 08-Nov-19 Analyzed: 11-Nov-19

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

**LCS (B9K1310-BS1)**

Prepared: 08-Nov-19 Analyzed: 11-Nov-19

Magnesium	19.9		mg/L	20.0		99.3	85-115
Calcium	19.7		"	20.0		98.6	85-115
Sodium	19.9		"	20.0		99.6	85-115

**Matrix Spike (B9K1310-MS1)**

Source: 19K0494-01

Prepared: 08-Nov-19 Analyzed: 11-Nov-19

Calcium	32.8	2.00	mg/L	20.0	13.0	99.1	70-130
Magnesium	23.0	2.00	"	20.0	3.19	99.0	70-130
Sodium	159	2.0	"	20.0	137	107	70-130

**Matrix Spike Dup (B9K1310-MSD1)**

Source: 19K0494-01

Prepared: 08-Nov-19 Analyzed: 11-Nov-19

Magnesium	22.9	2.00	mg/L	20.0	3.19	98.7	70-130	0.289	20
Sodium	157	2.0	"	20.0	137	99.1	70-130	1.04	20
Calcium	32.6	2.00	"	20.0	13.0	98.0	70-130	0.680	20

**Batch B9K1314 - Metals - EPA 200.2**

**Blank (B9K1314-BLK1)**

Prepared & Analyzed: 11-Nov-19

Iron	<0.0050	0.0050	mg/L
Manganese	<0.0050	0.0050	"

**LCS (B9K1314-BS1)**

Prepared & Analyzed: 11-Nov-19

Iron	259		ug/L	250		104	85-115
Manganese	250		"	250		99.9	85-115

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**PWS ID:** TX1700185

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12-Nov-19 09:32

**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 B9K1314 - Metals - EPA 200.2**

**Matrix Spike (B9K1314-MS1)**

**Source: 19K0494-01**

Prepared & Analyzed: 11-Nov-19

Iron	1.01	0.0050	mg/L	0.500	0.528	95.8	70-130			
Manganese	0.496	0.0050	"	0.500	0.0155	96.1	70-130			

**Matrix Spike Dup (B9K1314-MSD1)**

**Source: 19K0494-01**

Prepared & Analyzed: 11-Nov-19

Manganese	0.493	0.0050	mg/L	0.500	0.0155	95.6	70-130	0.576	20	
Iron	0.992	0.0050	"	0.500	0.528	92.8	70-130	1.51	20	

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**PWS ID:** TX1700185

**Reported:**  
12-Nov-19 09:32

### 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 'Kyl g'.

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
WATER QUALITY PARAMETER MONITORING FORM 20679

Completed by PWS (or Agent)

Completed by Laboratory

<b>PWS Name:</b>	River Club Water	<b>Laboratory Name:</b>	Envirodyne Laboratories, Inc.
<b>PWS ID#:</b>	TX 1700185	<b>TCEQ Lab ID #:</b>	TX-288
<b>PWS Address:</b>	20235 Russell Drive, Porter, TX 77365	<b>Laboratory Address:</b>	11011 Brooklet Dr #230
<b>PWS Contact:</b>	Micheal Williams	<b>Laboratory Address:</b>	Houston, TX 77099
<b>PWS Contact Phone #:</b>	281-355-1312	<b>Laboratory Contact:</b>	Laura Bonjonia
<b>Inhibitor or Stabilizer Used (✓):</b>	<input checked="" type="checkbox"/> Phosphate	<input type="checkbox"/> Silica	<input type="checkbox"/> Calcium carbonate
<b>TREATMENT</b>	<b>Alkalinity Dosage Rate:</b>	<b>Inhibitor Dosage Rate:</b>	<b>Laboratory Contact Phone #:</b>

<b>Sample Information</b>			
<b>Sample Type (✓):</b>	<input checked="" type="checkbox"/> Compliance	<input type="checkbox"/> Non-compliance	
<b>Sample Collector (✓):</b>	<input type="checkbox"/> Public Water System	<input checked="" type="checkbox"/> Accredited Lab	<b>3rd Party Contractor --&gt; LAB ID</b> AL TX-288
<b>Temperature and pH (Y or N):</b>	<input checked="" type="checkbox"/> Are temperature and pH included on the sampling entity's Laboratory Approval Form on file at the TCEQ?	<input checked="" type="checkbox"/> Were temperature and pH measured in the field within 15 minutes of sample collection?	

**Parameters Requested:** Analyses are required for the parameters checked. \* If inhibitors containing phosphate or silica are used, then these parameters should also be analyzed depending on which is in use.

Facility ID (e.g. DS01, PBCU001)	Sample Point ID (e.g. DSTWQP, EWQP)	Sample Location	Sample Collection		Field Measurements		Replacement? (✓)	Original Sample ID #	Original Sample Date (MMDDYY)	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)
			Date (MMDDYY)	Time - 24 hr (HHMM)	pH	Temp (°C)																
PBCU001	EWQP	SORTERS RD	102919	1312	7.58	26.1				1954137-01	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
DS01	DSTWQP	11931 RIVER RIDGE LN	102919	1300	7.42	26.1				1954137-02	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
											✓	✓	✓	✓	✓	✓	✓	✓	✓			
											✓	✓	✓	✓	✓	✓	✓	✓	✓			
											✓	✓	✓	✓	✓	✓	✓	✓	✓			
											✓	✓	✓	✓	✓	✓	✓	✓	✓			
											✓	✓	✓	✓	✓	✓	✓	✓	✓			

I acknowledge that information on this form is true and correct and sites selected for sampling follow the instructions in the TCEQ Monitoring and Sample Collection Guidance for Water Quality Parameters. This includes, but not limited to the measurement of pH and temperature immediately upon collection. Falsification of this form or tampering with water samples is a crime punishable under state and/or federal law. (Texas Penal Code, Title 8, Chapter 37.10)

<b>Name of Authorized PWS Representative (Print)</b>	<b>Signature</b>	<b>Organization</b>	<b>Date</b>	<b>Sample Conditions Upon Receipt (✓)</b>
Chels Aubrey	Chels Aubrey	Envirodyne	10-29-19	<input checked="" type="checkbox"/> Samples received unpreserved? <input checked="" type="checkbox"/> Iced <input type="checkbox"/> Ambient
<b>Chain of Custody</b>	<b>Relinquished By (Signature)</b>	<b>Date/Time:</b>	<b>Relinquished By Courier (Signature)</b>	<b>Date/Time:</b>
	Chels Aubrey	10/29/19 1705		
	<b>Received By Courier (Signature)</b>	<b>Date/Time:</b>	<b>Received By Lab (Signature)</b>	<b>Date/Time:</b>
			M. DeG	10/29/19 1705
<b>Rejection Code (if applicable):</b>				<b>Actual / Corrected sample temperature:</b> 4.1/4.1
<b>Date &amp; Time of Sample Preservation (Acidified):</b> 10-31-19 @ 1200				<b>Thermometer ID #:</b> 1R#4
<b>Laboratory Comments:</b>				