TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

WATER QUALITY PARAMETER MONITORING FORM 20679

Completed by PWS (or Agent)

PWS Name:	City of Farwell
PWS ID#:	TX 1850002
PWS Address:	100 Ninth st
PWS Contact:	Elpidio Banuelos
PWS Contact Phone #:	(575) 799-5699

Inhibitor or Stablizer Used (√): Phosphate | Silica | Calcium carbonate

TREATMENT — **Alkalinity Dosage Rate:** N/A — **Inhibitor Dosage Rate:** N/A

Completed by Laboratory

Laboratory Name:	Pace Analytical Services
TCEQ Lab ID #:	8 E Tower Cir Ormond Bch 32174 T-104704184-16-10
Laboratory Address:	Bradley Smith 386-676-4805
Laboratory Contact:	
Laboratory Contact Phone #:	

Sample Information

Sample Type (√): ✓ Compliance | Non-compliance

Sample Collector (√): ✓ Public Water System | Accredited Lab | 3rd Party Contractor --> LAB ID AL

Temperature and pH (Y or N): Y Are temperature and pH included on the sampling entity's Laboratory Approval Form on file at the TCEQ? | Y 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: Date (MMDDYY)	Sample Collection: Time - 24 hr (HHMM)	Field Measurements: pH	Field Measurements: Temp (°C)	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)*
DS01	DBP2-01-DS-A	100 9th st	02/19/19	10:00 am	6.6	6.4				75103545-001	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
DS01	DBP1-01-DS-A	300 1st st	2/19/19	9:50 am	6.7	8.6				-002	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
PBCU001	EWQP-EP-A	3rd st / Ave F S.	2/19/19	9:40 am	6.7	11.2				-003	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
PBCU004	EWQP-EP-A	FM292 / S. of Ave G	2/19/19	9:35 am	6.5	11.4				-004	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

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)

Name of Authorized PWS Representative (Print)	Signature	Organization	Date
Elpidio Banuelos	Elpidio Banuelos	City of Farwell	2-19-19

Sample Conditions Upon Receipt (√)

✓ Samples received unpreserved? | ✓ Iced | Ambient

Rejection Code (if applicable): | Actual / Corrected sample temperature: 0.4/0.6

Date & Time of Sample Preservation (Acidified): 2/22/19 1851 | Thermometer ID #: T338

Chain of Custody

Relinquished By (Signature)	Date/Time:	Relinquished By Courier (Signature)	Date/Time:
Elpidio Banuelos	2-19-19 11:00am	PACE	2-20-19 1200
Received By Courier (Signature)	**Date/Time:**	**Received By Lab (Signature)**	**Date/Time:**
			2-20-19 1204

Laboratory Comments:

TCEQ 20679 (Rev 12/2017)

WO# : 35449592

Chain of Custody

☐ Samples were sent direct

Pace Analytical®
www.pacelabs.com

State Of Origin: TX
Cert. Needed: [X] Yes [ ] No
Owner Received Date: 2/20/2019 Results Requested By: 3/6/2019

Workorder: 75103545 **Workorder Name:** TX1850002 FARWELL WQP

Report To	Subcontract To
Amy Bryant Pace Analytical Dallas 400 West Bethany Drive Suite 190 Allen, TX 75013 Phone (972)727-1123	Pace Analytical Ormond Beach 8 East Tower Circle Ormond Beach, FL 32174 Phone (386)672-5668

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Alkalinity	Ca,Fe,Mn,Na and Hardness	Chloride and Sulfate	Conductivity	TDS	LAB USE ONLY
1	DS01 DSTWQP 100 9TH ST	PS	2/19/2019 10:00	75103545001	Drinking	2	X	X	X	X	X	
2	DS01 DSTWQP 300 1ST ST	PS	2/19/2019 09:50	75103545002	Drinking	2	X	X	X	X	X	
3	PBCU001 EWQP 3RD ST ANDAVE F S	PS	2/19/2019 09:40	75103545003	Drinking	2	X	X	X	X	X	
4	PBCU004 EWQP FM292AND S OFAVEG	PS	2/19/2019 09:35	75103545004	Drinking	2	X	X	X	X	X	
5												

Transfers	Released By	Date/Time	Received By	Date/Time
1			DSTMee	2/20/19
2				
3				

Comments

WQP for Lead and Copper Rule. Please complete WQPMF and retrun to amy.bryant@pacealabs.com

1205 T338 06 35449592

Cooler Temperature on Receipt 06 °C | **Custody Seal** Y or (N) | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

WO#: 35449592 (SCUR)

PM: BTS Due Date: 03/04/19

CLIENT: PACDAL

Project #:

Project Manager:

Client:

Date and Initials of person:
Examining contents: SCS
Label:
Deliver: SCS
pH:

Thermometer Used: T338 Date: 02/20/19 Time: 1205 Initials: JDJ/MST

State of Origin: ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 0.4	**(Visual)** +0.2	**(Correction Factor)** 0.6	**(Actual)**	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐ Samples on ice, cooling process has begun

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☑ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # 4828 6623 2100

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☑Yes ☐ No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐ No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐ No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐ No ☐N/A	
Rush TAT requested on COC	☐Yes ☑ No ☐N/A	
Sufficient Volume	☑Yes ☐ No ☐N/A	
Correct Containers Used	☑Yes ☐ No ☐N/A	
Containers Intact	☑Yes ☐ No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☐Yes ☑No ☐N/A	Samples arrived without date & time
All containers needing acid/base preservation have been checked.	☐Yes ☐ No ☑N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☐Yes ☐ No ☑N/A	Preservative: Lot #/Trace #: Date: Time: Initials:
Headspace in VOA Vials? (>6mm):	☐Yes ☐ No ☑N/A	
Trip Blank Present:	☐Yes ☐ No ☑N/A	

Client Notification/ Resolution:
Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

March 04, 2019

Mario Rodriguez
Advanced Analysis
3407 Clovis Road
Lubbock, TX 79415

RE: Project: TX1850002 FARWELL WQP
Pace Project No.: 75103545

Dear Mario Rodriguez:
Enclosed are the analytical results for sample(s) received by the laboratory on February 20, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amy Bryant
[redacted]
(972)727-1123
Project Manager

Enclosures

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

SAMPLE SUMMARY

Project: TX1850002 FARWELL WQP
Pace Project No.: 75103545

Lab ID	Sample ID	Matrix	Date Collected	Date Received
75103545001	**DS01 DSTWQP 100 9TH ST**	Drinking Water	02/19/19 10:00	02/20/19 12:05
75103545002	**DS01 DSTWQP 300 1ST ST**	Drinking Water	02/19/19 09:50	02/20/19 12:05
75103545003	**PBCU001 EWQP 3RD ST ANDAVE F S**	Drinking Water	02/19/19 09:40	02/20/19 12:05
75103545004	**PBCU004 EWQP FM292AND S OFAVEG**	Drinking Water	02/19/19 09:35	02/20/19 12:05

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

March 04, 2019

Amy Bryant
Pace Analytical Dallas
400 West Bethany Drive
Suite 190
Allen, TX 75013

RE: Project: 75103545 TX1850002 FARWELL WQP
Pace Project No.: 35449592

Dear Amy Bryant:
Enclosed are the analytical results for sample(s) received by the laboratory on February 20, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brad Smith
[redacted]
(386) 672-5668
Project Manager

Enclosures

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: 75103545 TX1850002 FARWELL WQP
Pace Project No.: 35449592

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: 75103545 TX1850002 FARWELL WQP
Pace Project No.: 35449592

Lab ID	Sample ID	Matrix	Date Collected	Date Received
75103545001	**DS01 DSTWQP 100 9TH ST**	Drinking Water	02/19/19 11:00	02/20/19 12:05
75103545002	**DS01 DSTWQP 300 1ST ST**	Drinking Water	02/19/19 10:50	02/20/19 12:05
75103545003	**PBCU001 EWQP 3RD ST ANDAVE F S**	Drinking Water	02/19/19 10:40	02/20/19 12:05
75103545004	**PBCU004 EWQP FM292AND S OFAVEG**	Drinking Water	02/19/19 10:35	02/20/19 12:05

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: 75103545 TX1850002 FARWELL WQP
Pace Project No.: 35449592

Lab ID	Sample ID	Method	Analysts	Analytes Reported
75103545001	**DS01 DSTWQP 100 9TH ST**	EPA 200.7	LEC	5
		SM 2320B	AGS	1
		SM 2510B	MAJ	1
		SM 2540C	KLT	1
		EPA 300.0	JDM	2
75103545002	**DS01 DSTWQP 300 1ST ST**	EPA 200.7	LEC	5
		SM 2320B	AGS	1
		SM 2510B	MAJ	1
		SM 2540C	KLT	1
		EPA 300.0	JDM	2
75103545003	**PBCU001 EWQP 3RD ST ANDAVE F S**	EPA 200.7	LEC	5
		SM 2320B	AGS	1
		SM 2510B	MAJ	1
		SM 2540C	KLT	1
		EPA 300.0	JDM	2
75103545004	**PBCU004 EWQP FM292AND S OFAVEG**	EPA 200.7	LEC	5
		SM 2320B	AGS	1
		SM 2510B	MAJ	1
		SM 2540C	KLT	1
		EPA 300.0	JDM	2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 75103545 TX1850002 FARWELL WQP
Pace Project No.: 35449592

Sample: DS01 DSTWQP 100 9TH ST **Lab ID: 75103545001** Collected: 02/19/19 11:00 Received: 02/20/19 12:05 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, DW No Prep	Analytical Method: EPA 200.7									
Calcium	**42.5**	mg/L	0.65	0.20		1		02/27/19 20:09	7440-70-2	
Iron	ND	mg/L	0.12	0.039	.3	1		02/27/19 20:09	7439-89-6	
Manganese	ND	mg/L	0.0050	0.0012	.05	1		02/27/19 20:09	7439-96-5	
Sodium	**45.7**	mg/L	2.2	0.59	160	1		02/27/19 20:09	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**236**	mg/L	3.7	1.2		1		02/27/19 20:09		
2320B Alkalinity	Analytical Method: SM 2320B									
Alkalinity, Total as CaCO3	**181**	mg/L	5.0	5.0		1		02/26/19 20:52		
2510B Specific Conductance	Analytical Method: SM 2510B									
Specific Conductance @ 25C	**702**	umhos/cm	2.0	2.0		1		02/26/19 12:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C									
Total Dissolved Solids	**389**	mg/L	5.0	5.0	500	1		02/25/19 19:43		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0									
Chloride	**61.7**	mg/L	10.0	5.0	250	2		02/23/19 01:34	16887-00-6	
Sulfate	**68.2**	mg/L	10.0	5.0	250	2		02/23/19 01:34	14808-79-8	

Sample: DS01 DSTWQP 300 1ST ST **Lab ID: 75103545002** Collected: 02/19/19 10:50 Received: 02/20/19 12:05 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, DW No Prep	Analytical Method: EPA 200.7									
Calcium	**43.0**	mg/L	0.65	0.20		1		02/27/19 20:12	7440-70-2	
Iron	ND	mg/L	0.12	0.039	.3	1		02/27/19 20:12	7439-89-6	
Manganese	ND	mg/L	0.0050	0.0012	.05	1		02/27/19 20:12	7439-96-5	
Sodium	**46.3**	mg/L	2.2	0.59	160	1		02/27/19 20:12	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**239**	mg/L	3.7	1.2		1		02/27/19 20:12		
2320B Alkalinity	Analytical Method: SM 2320B									
Alkalinity, Total as CaCO3	**177**	mg/L	5.0	5.0		1		02/26/19 21:02		
2510B Specific Conductance	Analytical Method: SM 2510B									
Specific Conductance @ 25C	**704**	umhos/cm	2.0	2.0		1		02/26/19 12:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C									
Total Dissolved Solids	**395**	mg/L	5.0	5.0	500	1		02/25/19 19:43		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 75103545 TX1850002 FARWELL WQP
Pace Project No.: 35449592

Sample: DS01 DSTWQP 300 1ST ST **Lab ID: 75103545002** Collected: 02/19/19 10:50 Received: 02/20/19 12:05 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0									
Chloride	**61.3**	mg/L	10.0	5.0	250	2		02/23/19 01:57	16887-00-6	
Sulfate	**67.7**	mg/L	10.0	5.0	250	2		02/23/19 01:57	14808-79-8	

Sample: PBCU001 EWQP 3RD ST ANDAVE F S **Lab ID: 75103545003** Collected: 02/19/19 10:40 Received: 02/20/19 12:05 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, DW No Prep	Analytical Method: EPA 200.7									
Calcium	**44.4**	mg/L	0.65	0.20		1		02/27/19 20:15	7440-70-2	
Iron	ND	mg/L	0.12	0.039	.3	1		02/27/19 20:15	7439-89-6	
Manganese	ND	mg/L	0.0050	0.0012	.05	1		02/27/19 20:15	7439-96-5	
Sodium	**47.0**	mg/L	2.2	0.59	160	1		02/27/19 20:15	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**247**	mg/L	3.7	1.2		1		02/27/19 20:15		
2320B Alkalinity	Analytical Method: SM 2320B									
Alkalinity, Total as CaCO3	**176**	mg/L	5.0	5.0		1		02/26/19 21:08		
2510B Specific Conductance	Analytical Method: SM 2510B									
Specific Conductance @ 25C	**724**	umhos/cm	2.0	2.0		1		02/26/19 12:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C									
Total Dissolved Solids	**416**	mg/L	5.0	5.0	500	1		02/25/19 19:43		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0									
Chloride	**66.8**	mg/L	10.0	5.0	250	2		02/23/19 02:19	16887-00-6	
Sulfate	**74.6**	mg/L	10.0	5.0	250	2		02/23/19 02:19	14808-79-8	

Sample: PBCU004 EWQP FM292AND S OFAVEG **Lab ID: 75103545004** Collected: 02/19/19 10:35 Received: 02/20/19 12:05 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, DW No Prep	Analytical Method: EPA 200.7									
Calcium	**44.7**	mg/L	0.65	0.20		1		02/27/19 20:18	7440-70-2	
Iron	ND	mg/L	0.12	0.039	.3	1		02/27/19 20:18	7439-89-6	
Manganese	ND	mg/L	0.0050	0.0012	.05	1		02/27/19 20:18	7439-96-5	
Sodium	**47.1**	mg/L	2.2	0.59	160	1		02/27/19 20:18	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**249**	mg/L	3.7	1.2		1		02/27/19 20:18		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 75103545 TX1850002 FARWELL WQP
Pace Project No.: 35449592

Sample: PBCU004 EWQP FM292AND S OFAVEG **Lab ID: 75103545004** Collected: 02/19/19 10:35 Received: 02/20/19 12:05 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity		Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**175**	mg/L	5.0	5.0		1		02/26/19 21:13		
2510B Specific Conductance		Analytical Method: SM 2510B								
Specific Conductance @ 25C	**722**	umhos/cm	2.0	2.0		1		02/26/19 12:58		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	**411**	mg/L	5.0	5.0	500	1		02/25/19 19:43		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	**66.6**	mg/L	10.0	5.0	250	2		02/23/19 02:42	16887-00-6	
Sulfate	**74.4**	mg/L	10.0	5.0	250	2		02/23/19 02:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: 75103545 TX1850002 FARWELL WQP
Pace Project No.: 35449592

QC Batch: 519205 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET No Prep Drinking Water
Associated Lab Samples: 75103545001, 75103545002, 75103545003, 75103545004

METHOD BLANK: 2803717 Matrix: Water
Associated Lab Samples: 75103545001, 75103545002, 75103545003, 75103545004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	0.50	0.064	02/27/19 20:21	
Iron	mg/L	ND	0.040	0.0092	02/27/19 20:21	
Manganese	mg/L	ND	0.0050	0.00042	02/27/19 20:21	
Sodium	mg/L	ND	2.0	0.27	02/27/19 20:21	
Tot Hardness asCaCO3 (SM 2340B	mg/L	ND	3.3	0.51	02/27/19 20:21	

LABORATORY CONTROL SAMPLE: 2803718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	12.5	13.2	106	85-115	
Iron	mg/L	2.5	2.6	106	85-115	
Manganese	mg/L	0.25	0.26	104	85-115	
Sodium	mg/L	12.5	13.1	105	85-115	
Tot Hardness asCaCO3 (SM 2340B	mg/L	82.7	85.7	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2803715 2803716

Parameter	Units	35450100002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	15100 ug/L	12.5	12.5	26.7	27.4	92	98	70-130	3	20	
Iron	mg/L	0.061J	2.5	2.5	2.4	2.5	92	98	70-130	6	20	
Manganese	mg/L	1.2U ug/L	0.25	0.25	0.23	0.25	93	98	70-130	6	20	
Sodium	mg/L	26700 ug/L	12.5	12.5	38.6	39.4	95	102	70-130	2	20	
Tot Hardness asCaCO3 (SM 2340B	mg/L	48400 ug/L	82.7	82.7	125	130	92	98	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: 75103545 TX1850002 FARWELL WQP
Pace Project No.: 35449592

QC Batch: 518670 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 75103545001, 75103545002, 75103545003, 75103545004

METHOD BLANK: 2801019 Matrix: Water
Associated Lab Samples: 75103545001, 75103545002, 75103545003, 75103545004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/26/19 19:25	

LABORATORY CONTROL SAMPLE: 2801020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	252	260	103	90-110	

SAMPLE DUPLICATE: 2801021

Parameter	Units	35449844006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	71.2	72.2	1	20	

SAMPLE DUPLICATE: 2801022

Parameter	Units	75103545001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	181	180	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 75103545 TX1850002 FARWELL WQP
Pace Project No.: 35449592

QC Batch: 518648 Analysis Method: SM 2510B
QC Batch Method: SM 2510B Analysis Description: 2510B Specific Conductance
Associated Lab Samples: 75103545001, 75103545002, 75103545003, 75103545004

METHOD BLANK: 2800968 Matrix: Water
Associated Lab Samples: 75103545001, 75103545002, 75103545003, 75103545004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Specific Conductance @ 25C	umhos/cm	ND	2.0	2.0	02/26/19 12:52	

LABORATORY CONTROL SAMPLE: 2800969

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance @ 25C	umhos/cm	1410	1400	99	95-105	

SAMPLE DUPLICATE: 2800970

Parameter	Units	75103516001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance @ 25C	umhos/cm	73.9	73.9	0	20	

SAMPLE DUPLICATE: 2800971

Parameter	Units	35449572001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance @ 25C	umhos/cm	1170	1170	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: 75103545 TX1850002 FARWELL WQP
Pace Project No.: 35449592

QC Batch: 518499 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 75103545001, 75103545002, 75103545003, 75103545004

METHOD BLANK: 2800388 Matrix: Water
Associated Lab Samples: 75103545001, 75103545002, 75103545003, 75103545004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	5.0	02/25/19 19:43	

LABORATORY CONTROL SAMPLE: 2800389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	302	101	90-110	

SAMPLE DUPLICATE: 2800539

Parameter	Units	35449586001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	455	451	1	5	

SAMPLE DUPLICATE: 2800540

Parameter	Units	75103545003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	416	406	2	5	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 75103545 TX1850002 FARWELL WQP
Pace Project No.: 35449592

QC Batch: 517870 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 75103545001, 75103545002, 75103545003, 75103545004

METHOD BLANK: 2797091 Matrix: Water
Associated Lab Samples: 75103545001, 75103545002, 75103545003, 75103545004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	2.5	02/22/19 21:50	
Sulfate	mg/L	ND	5.0	2.5	02/22/19 21:50	

LABORATORY CONTROL SAMPLE: 2797092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.1	100	90-110	
Sulfate	mg/L	50	49.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2797219 2797220

Parameter	Units	35449537001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.9	50	50	59.7	60.0	104	104	90-110	0	20	
Sulfate	mg/L	7.6	50	50	58.2	58.5	101	102	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
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(386)672-5668

QUALIFIERS

Project: 75103545 TX1850002 FARWELL WQP
Pace Project No.: 35449592

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 75103545 TX1850002 FARWELL WQP
Pace Project No.: 35449592

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
75103545004	**PBCU004 EWQP FM292AND SOFAVEG**	EPA 200.7	519205		
75103545003	**PBCU001 EWQP 3RD ST ANDAVE F S**	EPA 200.7	519205		
75103545002	**DS01 DSTWQP 300 1ST ST**	EPA 200.7	519205		
75103545001	**DS01 DSTWQP 100 9TH ST**	EPA 200.7	519205		
75103545004	**PBCU004 EWQP FM292AND SOFAVEG**	SM 2320B	518670		
75103545003	**PBCU001 EWQP 3RD ST ANDAVE F S**	SM 2320B	518670		
75103545002	**DS01 DSTWQP 300 1ST ST**	SM 2320B	518670		
75103545001	**DS01 DSTWQP 100 9TH ST**	SM 2320B	518670		
75103545004	**PBCU004 EWQP FM292AND SOFAVEG**	SM 2510B	518648		
75103545003	**PBCU001 EWQP 3RD ST ANDAVE F S**	SM 2510B	518648		
75103545002	**DS01 DSTWQP 300 1ST ST**	SM 2510B	518648		
75103545001	**DS01 DSTWQP 100 9TH ST**	SM 2510B	518648		
75103545004	**PBCU004 EWQP FM292AND SOFAVEG**	SM 2540C	518499		
75103545003	**PBCU001 EWQP 3RD ST ANDAVE F S**	SM 2540C	518499		
75103545002	**DS01 DSTWQP 300 1ST ST**	SM 2540C	518499		
75103545001	**DS01 DSTWQP 100 9TH ST**	SM 2540C	518499		
75103545004	**PBCU004 EWQP FM292AND SOFAVEG**	EPA 300.0	517870		
75103545003	**PBCU001 EWQP 3RD ST ANDAVE F S**	EPA 300.0	517870		
75103545002	**DS01 DSTWQP 300 1ST ST**	EPA 300.0	517870		
75103545001	**DS01 DSTWQP 100 9TH ST**	EPA 300.0	517870		

REPORT OF LABORATORY ANALYSIS

WO# : 35449592

Chain of Custody

☐ Samples were sent direct

Pace Analytical®
www.pacelabs.com

State Of Origin: TX
Cert. Needed: [X] Yes ☐ No

Workorder: 75103545 **Workorder Name:** TX1850002 FARWELL WQP
Owner Received Date: 2/20/2019 **Results Requested By:** 3/6/2019

Report To	Subcontract To
Amy Bryant Pace Analytical Dallas 400 West Bethany Drive Suite 190 Allen, TX 75013 Phone (972)727-1123	Pace Analytical Ormond Beach 8 East Tower Circle Ormond Beach, FL 32174 Phone (386)672-5668

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Alkalinity	Ca,Fe,Mn,Na and Hardness	Chloride and Sulfate	Conductivity	TDS	LAB USE ONLY
1	DS01 DSTWQP 100 9TH ST	PS	2/19/2019 10:00	75103545001	Drinking	2	X	X	X	X	X	
2	DS01 DSTWQP 300 1ST ST	PS	2/19/2019 09:50	75103545002	Drinking	2	X	X	X	X	X	
3	PBCU001 EWQP 3RD ST ANDAVE F S	PS	2/19/2019 09:40	75103545003	Drinking	2	X	X	X	X	X	
4	PBCU004 EWQP FM292AND S OFAVEG	PS	2/19/2019 09:35	75103545004	Drinking	2	X	X	X	X	X	
5												

Transfers	Released By	Date/Time	Received By	Date/Time
1			DSTMee	2/20/19
2				
3				

Comments

WQP for Lead and Copper Rule. Please complete WQPMF and retrun to amy.bryant@pacealabs.com
1205 T-338 06 35449592

Cooler Temperature on Receipt 06 °C | **Custody Seal** Y or (N) | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt (SCUR)

WO#: 35449592

PM: BTS Due Date: 03/04/19

CLIENT: PACDAL

Project #

Project Manager:

Client:

Date and Initials of person:
Examining contents: SCS
Label:
Deliver: SCS
pH:

Thermometer Used: T338 Date: 02/20/19 Time: 1205 Initials: JDJ/MST

State of Origin: ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 0.4	**(Visual)** +0.2	**(Correction Factor)** 0.6	**(Actual)**	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	**(Visual)**	**(Correction Factor)**	**(Actual)**	☐ Samples on ice, cooling process has begun

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☑ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # 4828 6623 2100

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☑Yes ☐ No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐ No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐ No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐ No ☐N/A	
Rush TAT requested on COC	☐Yes ☑ No ☐N/A	
Sufficient Volume	☑Yes ☐ No ☐N/A	
Correct Containers Used	☑Yes ☐ No ☐N/A	
Containers Intact	☑Yes ☐ No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☐Yes ☑No ☐N/A	Samples arrived without date & time
All containers needing acid/base preservation have been checked.	☐Yes ☐ No ☑N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☐Yes ☐ No ☑N/A	Preservative: Lot #/Trace #: Date: Time: Initials:
Headspace in VOA Vials? (>6mm):	☐Yes ☐ No ☑N/A	
Trip Blank Present:	☐Yes ☐ No ☑N/A	

Client Notification/ Resolution:
Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date: