

## ANALYTICAL REPORT

Job Number: 660-35950-1

SDG Number: 35950

Job Description: FPL Turkey Point Analytical Services

For:

Florida Power & Light Company  
Technical Services - PGD Environmental  
Water Compliance/Permitting  
700 Universe Blvd (JES/JB)  
Juno Beach, FL 33408  
Attention: Ms. Stacy Foster



Approved for release.  
Amy Atkins  
Project Manager I  
8/24/2010 8:53 AM

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Amy Atkins  
Project Manager I  
amy.atkins@testamericainc.com  
08/24/2010  
Revision: 1

cc: Ms. Sharon Ewe

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282; TestAmerica Tallahassee E81005; TestAmerica Savannah E87052 These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

**DRAFT**

THE DATA IN THIS REPORT HAS NOT HAD A FINAL QA/QC CHECK

**Job Narrative**  
**660-35950-1**

**Comments**

Report revised to show lower limits for 200.7.

**Receipt**

All samples were received in good condition within temperature requirements.

**6010B**

The matrix spike duplicate (MSD) recovery for Calcium in batch 660-96604 was outside control limits with the sample greater than 4x the spike level. The associated laboratory control sample (LCS) recovery met acceptance criteria.

**300.0**

Due to sample matrix, 062410-TPGW-4D (660-35950-3) and 062410-TPGW-4M (660-35950-2) were diluted for Fluoride.

## EXECUTIVE SUMMARY - Detections

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-35950-1	062410-TPGW-4S				
Field pH		7.31		SU	Field Sampling
Field Temperature		24.99		Degrees C	Field Sampling
Oxygen, Dissolved		1.4		mg/L	Field Sampling
Specific Conductance		1750		umhos/cm	Field Sampling
Turbidity		2.52		NTU	Field Sampling
Bromide		1.7	0.050	mg/L	300.0
Chloride		490	50	mg/L	300.0
Fluoride		0.055	0.050	mg/L	300.0
Sulfate		20	0.50	mg/L	300.0
Alkalinity		200	1.0	mg/L	SM 2320B
Total Dissolved Solids		1100	5.0	mg/L	SM 2540C
<i>Dissolved</i>					
Dissolved Inorganic Carbon-Dissolved		54	1.0	mg/L	9060
<i>Total Recoverable</i>					
Barium		24 I	100	ug/L	200.7 Rev 4.4
Iron		220 I	500	ug/L	200.7 Rev 4.4
Boron		64	50	ug/L	6010B
Calcium		120	0.50	mg/L	6010B
Potassium		9.2	1.0	mg/L	6010B
Strontium		1300	5.0	ug/L	6010B
Magnesium		19	0.080	mg/L	6010B
Sodium		250	5.0	mg/L	6010B

## EXECUTIVE SUMMARY - Detections

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
<b>660-35950-2</b>	<b>062410-TPGW-4M</b>				
Field pH		6.88		SU	Field Sampling
Field Temperature		25.66		Degrees C	Field Sampling
Oxygen, Dissolved		2.3		mg/L	Field Sampling
Specific Conductance		32010		umhos/cm	Field Sampling
Turbidity		2.0		NTU	Field Sampling
Bromide		47	5.0	mg/L	300.0
Chloride		13000	500	mg/L	300.0
Sulfate		1600	50	mg/L	300.0
Alkalinity		210	1.0	mg/L	SM 2320B
Total Dissolved Solids		28000	250	mg/L	SM 2540C
<i>Dissolved</i>					
Dissolved Inorganic Carbon-Dissolved		48	1.0	mg/L	9060
<i>Total Recoverable</i>					
Barium		150	100	ug/L	200.7 Rev 4.4
Iron		4700	500	ug/L	200.7 Rev 4.4
Boron		1400	500	ug/L	6010B
Calcium		620	5.0	mg/L	6010B
Potassium		280	10	mg/L	6010B
Strontium		8300	50	ug/L	6010B
Magnesium		900	0.80	mg/L	6010B
Sodium		7200	100	mg/L	6010B

# EXECUTIVE SUMMARY - Detections

Client: Florida Power & Light Company

Job Number: 660-35950-1  
Sdg Number: 35950

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-35950-3	062410-TPGW-4D				
Field pH		6.92		SU	Field Sampling
Field Temperature		25.29		Degrees C	Field Sampling
Oxygen, Dissolved		2.4		mg/L	Field Sampling
Specific Conductance		37010		umhos/cm	Field Sampling
Turbidity		0.02		NTU	Field Sampling
Bromide		54	50	mg/L	300.0
Chloride		16000	500	mg/L	300.0
Sulfate		1900	50	mg/L	300.0
Alkalinity		200	1.0	mg/L	SM 2320B
Total Dissolved Solids		33000	250	mg/L	SM 2540C
<i>Dissolved</i>					
Dissolved Inorganic Carbon-Dissolved		45	1.0	mg/L	9060
<i>Total Recoverable</i>					
Barium		140	100	ug/L	200.7 Rev 4.4
Iron		5900	500	ug/L	200.7 Rev 4.4
Boron		2200	500	ug/L	6010B
Calcium		620	5.0	mg/L	6010B
Potassium		420	10	mg/L	6010B
Strontium		8800	50	ug/L	6010B
Magnesium		1100	0.80	mg/L	6010B
Sodium		8600	100	mg/L	6010B

## EXECUTIVE SUMMARY - Detections

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-35950-4	062410-TPGW-7S				
Field pH		7.22		SU	Field Sampling
Field Temperature		24.80		Degrees C	Field Sampling
Oxygen, Dissolved		2.0		mg/L	Field Sampling
Specific Conductance		483		umhos/cm	Field Sampling
Turbidity		3.81		NTU	Field Sampling
Bromide		0.18	0.050	mg/L	300.0
Chloride		36	0.50	mg/L	300.0
Fluoride		0.17	0.050	mg/L	300.0
Sulfate		27	0.50	mg/L	300.0
Alkalinity		210	1.0	mg/L	SM 2320B
Total Dissolved Solids		300	5.0	mg/L	SM 2540C
<i>Dissolved</i>					
Dissolved Inorganic Carbon-Dissolved		44	1.0	mg/L	9060
<i>Total Recoverable</i>					
Iron		340 I	500	ug/L	200.7 Rev 4.4
Boron		53	50	ug/L	6010B
Calcium		91	0.50	mg/L	6010B
Potassium		9.9	1.0	mg/L	6010B
Strontium		910	5.0	ug/L	6010B
Magnesium		4.0	0.080	mg/L	6010B
Sodium		20	0.50	mg/L	6010B

## EXECUTIVE SUMMARY - Detections

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-35950-5	062410-TPGW-7M				
Field pH		7.19		SU	Field Sampling
Field Temperature		25.05		Degrees C	Field Sampling
Oxygen, Dissolved		1.5		mg/L	Field Sampling
Specific Conductance		500		umhos/cm	Field Sampling
Turbidity		2.29		NTU	Field Sampling
Bromide		0.17	0.050	mg/L	300.0
Chloride		35	0.50	mg/L	300.0
Fluoride		0.23	0.050	mg/L	300.0
Sulfate		25	0.50	mg/L	300.0
Alkalinity		200	1.0	mg/L	SM 2320B
Total Dissolved Solids		310	5.0	mg/L	SM 2540C
<i>Dissolved</i>					
Dissolved Inorganic Carbon-Dissolved		47	1.0	mg/L	9060
<i>Total Recoverable</i>					
Barium		11 I	100	ug/L	200.7 Rev 4.4
Iron		360 I	500	ug/L	200.7 Rev 4.4
Boron		53	50	ug/L	6010B
Calcium		91	0.50	mg/L	6010B
Potassium		9.4	1.0	mg/L	6010B
Strontium		920	5.0	ug/L	6010B
Magnesium		4.1	0.080	mg/L	6010B
Sodium		21	0.50	mg/L	6010B

## EXECUTIVE SUMMARY - Detections

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-35950-6	062410-TPGW-7D				
Field pH		7.19		SU	Field Sampling
Field Temperature		25.12		Degrees C	Field Sampling
Oxygen, Dissolved		2.3		mg/L	Field Sampling
Specific Conductance		510		umhos/cm	Field Sampling
Turbidity		1.34		NTU	Field Sampling
Bromide		0.21	0.050	mg/L	300.0
Chloride		41	0.50	mg/L	300.0
Fluoride		0.14	0.050	mg/L	300.0
Sulfate		29	0.50	mg/L	300.0
Alkalinity		200	1.0	mg/L	SM 2320B
Total Dissolved Solids		320	5.0	mg/L	SM 2540C
<i>Dissolved</i>					
Dissolved Inorganic Carbon-Dissolved		47	1.0	mg/L	9060
<i>Total Recoverable</i>					
Iron		280 I	500	ug/L	200.7 Rev 4.4
Boron		51	50	ug/L	6010B
Calcium		91	0.50	mg/L	6010B
Potassium		4.8	1.0	mg/L	6010B
Strontium		880	5.0	ug/L	6010B
Magnesium		3.7	0.080	mg/L	6010B
Sodium		26	0.50	mg/L	6010B



## METHOD SUMMARY

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

Description	Lab Location	Method	Preparation Method
<b>Matrix: Water</b>			
Metals (ICP)	TAL TAL	EPA 200.7 Rev 4.4	
Preparation, Total Recoverable Metals	TAL TAL		EPA 200.7
Metals (ICP)	TAL TAM	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A
Anions, Ion Chromatography	TAL TAM	MCAWW 300.0	
Carbon, Dissolved and Dissolved Inorganic	TAL SAV	SW846 9060	
Sample Filtration, Field	TAL SAV		FIELD_FLTRD
Alkalinity	TAL TAM	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL TAM	SM SM 2540C	
Sulfide, Total	TAL TAM	SM SM 4500 S2 F	
Field Sampling	TAL TAM	EPA Field Sampling	

### Lab References:

TAL SAV = TestAmerica Savannah

TAL TAL = TestAmerica Tallahassee

TAL TAM = TestAmerica Tampa

### Method References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: Florida Power & Light Company

Job Number: 660-35950-1  
Sdg Number: 35950

Method	Analyst	Analyst ID
EPA 200.7 Rev 4.4	Wallace, Tiffany B	TBW
SW846 6010B	Fox, Greg	GF
EPA Field Sampling	Sampler, Field	FS
MCAWW 300.0	Sengsouvana, Dom	DS
SW846 9060	Blackshear, Kim	KB
SM SM 2320B	Steward, Tiffany	TS
SM SM 2540C	Oonnoonny, Thomas	TO
SM SM 4500 S2 F	Mostafavifar, Efe	EM

## SAMPLE SUMMARY

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-35950-1	062410-TPGW-4S	Water	06/24/2010 1500	06/25/2010 0830
660-35950-2	062410-TPGW-4M	Water	06/24/2010 1330	06/25/2010 0830
660-35950-3	062410-TPGW-4D	Water	06/24/2010 1300	06/25/2010 0830
660-35950-4	062410-TPGW-7S	Water	06/24/2010 1655	06/25/2010 0830
660-35950-5	062410-TPGW-7M	Water	06/24/2010 1715	06/25/2010 0830
660-35950-6	062410-TPGW-7D	Water	06/24/2010 1800	06/25/2010 0830

**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-35950-1

Sdg Number: 35950

Client Sample ID: 062410-TPGW-4S

Lab Sample ID: 660-35950-1

Date Sampled: 06/24/2010 1500

Client Matrix: Water

Date Received: 06/25/2010 0830

**200.7 Rev 4.4 Metals (ICP)-Total Recoverable**

Method:	200.7 Rev 4.4	Analysis Batch:	640-70850	Instrument ID:	ICP2
Preparation:	200.7	Prep Batch:	640-70571	Lab File ID:	071310.csv
Dilution:	1.0			Initial Weight/Volume:	5.0 mL
Date Analyzed:	07/13/2010 1019			Final Weight/Volume:	50 mL
Date Prepared:	07/06/2010 1100				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Barium	24	I	8.1	100
Iron	220	I	27	500

**6010B Metals (ICP)-Total Recoverable**

Method:	6010B	Analysis Batch:	660-97236	Instrument ID:	ICPA
Preparation:	3005A	Prep Batch:	660-96604	Lab File ID:	10G15A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/15/2010 1427			Final Weight/Volume:	50 mL
Date Prepared:	06/30/2010 1004				

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Calcium	120		0.10	0.50
Potassium	9.2		0.19	1.0
Magnesium	19		0.020	0.080

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Boron	64		10	50
Strontium	1300		1.0	5.0

Method:	6010B	Analysis Batch:	660-97236	Instrument ID:	ICPA
Preparation:	3005A	Prep Batch:	660-96604	Lab File ID:	10G15A
Dilution:	10			Initial Weight/Volume:	50 mL
Date Analyzed:	07/15/2010 1519	Run Type:	DL	Final Weight/Volume:	50 mL
Date Prepared:	06/30/2010 1004				

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Sodium	250		3.1	5.0

# Analytical Data

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

Client Sample ID: 062410-TPGW-4M

Lab Sample ID: 660-35950-2

Client Matrix: Water

Date Sampled: 06/24/2010 1330

Date Received: 06/25/2010 0830

## 200.7 Rev 4.4 Metals (ICP)-Total Recoverable

Method:	200.7 Rev 4.4	Analysis Batch:	640-70850	Instrument ID:	ICP2
Preparation:	200.7	Prep Batch:	640-70571	Lab File ID:	071310.csv
Dilution:	1.0			Initial Weight/Volume:	5.0 mL
Date Analyzed:	07/13/2010 1022			Final Weight/Volume:	50 mL
Date Prepared:	07/06/2010 1100				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Barium	150		8.1	100
Iron	4700		27	500

## 6010B Metals (ICP)-Total Recoverable

Method:	6010B	Analysis Batch:	660-97236	Instrument ID:	ICPA
Preparation:	3005A	Prep Batch:	660-96604	Lab File ID:	10G15A
Dilution:	10			Initial Weight/Volume:	50 mL
Date Analyzed:	07/15/2010 1433			Final Weight/Volume:	50 mL
Date Prepared:	06/30/2010 1004				

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Calcium	620		1.0	5.0
Potassium	280		1.9	10
Magnesium	900		0.20	0.80

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Boron	1400		100	500
Strontium	8300		10	50

Method:	6010B	Analysis Batch:	660-97236	Instrument ID:	ICPA
Preparation:	3005A	Prep Batch:	660-96604	Lab File ID:	10G15A
Dilution:	200			Initial Weight/Volume:	50 mL
Date Analyzed:	07/15/2010 1525	Run Type:	DL	Final Weight/Volume:	50 mL
Date Prepared:	06/30/2010 1004				

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Sodium	7200		62	100

**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-35950-1

Sdg Number: 35950

Client Sample ID: 062410-TPGW-4D

Lab Sample ID: 660-35950-3

Date Sampled: 06/24/2010 1300

Client Matrix: Water

Date Received: 06/25/2010 0830

**200.7 Rev 4.4 Metals (ICP)-Total Recoverable**

Method:	200.7 Rev 4.4	Analysis Batch:	640-70850	Instrument ID:	ICP2
Preparation:	200.7	Prep Batch:	640-70571	Lab File ID:	071310.csv
Dilution:	1.0			Initial Weight/Volume:	5.0 mL
Date Analyzed:	07/13/2010 1026			Final Weight/Volume:	50 mL
Date Prepared:	07/06/2010 1100				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Barium	140		8.1	100
Iron	5900		27	500

**6010B Metals (ICP)-Total Recoverable**

Method:	6010B	Analysis Batch:	660-97236	Instrument ID:	ICPA
Preparation:	3005A	Prep Batch:	660-96604	Lab File ID:	10G15A
Dilution:	10			Initial Weight/Volume:	50 mL
Date Analyzed:	07/15/2010 1440			Final Weight/Volume:	50 mL
Date Prepared:	06/30/2010 1004				

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Calcium	620		1.0	5.0
Potassium	420		1.9	10
Magnesium	1100		0.20	0.80

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Boron	2200		100	500
Strontium	8800		10	50

Method:	6010B	Analysis Batch:	660-97236	Instrument ID:	ICPA
Preparation:	3005A	Prep Batch:	660-96604	Lab File ID:	10G15A
Dilution:	200			Initial Weight/Volume:	50 mL
Date Analyzed:	07/15/2010 1531	Run Type:	DL	Final Weight/Volume:	50 mL
Date Prepared:	06/30/2010 1004				

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Sodium	8600		62	100

**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-35950-1

Sdg Number: 35950

Client Sample ID: 062410-TPGW-7S

Lab Sample ID: 660-35950-4

Date Sampled: 06/24/2010 1655

Client Matrix: Water

Date Received: 06/25/2010 0830

**200.7 Rev 4.4 Metals (ICP)-Total Recoverable**

Method:	200.7 Rev 4.4	Analysis Batch:	640-70850	Instrument ID:	ICP2
Preparation:	200.7	Prep Batch:	640-70571	Lab File ID:	071310.csv
Dilution:	1.0			Initial Weight/Volume:	5.0 mL
Date Analyzed:	07/13/2010 1033			Final Weight/Volume:	50 mL
Date Prepared:	07/06/2010 1100				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Barium	8.1	U	8.1	100
Iron	340	I	27	500

**6010B Metals (ICP)-Total Recoverable**

Method:	6010B	Analysis Batch:	660-97236	Instrument ID:	ICPA
Preparation:	3005A	Prep Batch:	660-96604	Lab File ID:	10G15A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/15/2010 1537			Final Weight/Volume:	50 mL
Date Prepared:	06/30/2010 1004				

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Calcium	91		0.10	0.50
Potassium	9.9		0.19	1.0
Magnesium	4.0		0.020	0.080
Sodium	20		0.31	0.50

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Boron	53		10	50
Strontium	910		1.0	5.0

**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-35950-1

Sdg Number: 35950

Client Sample ID: 062410-TPGW-7M

Lab Sample ID: 660-35950-5

Date Sampled: 06/24/2010 1715

Client Matrix: Water

Date Received: 06/25/2010 0830

**200.7 Rev 4.4 Metals (ICP)-Total Recoverable**

Method:	200.7 Rev 4.4	Analysis Batch:	640-70850	Instrument ID:	ICP2
Preparation:	200.7	Prep Batch:	640-70571	Lab File ID:	071310.csv
Dilution:	1.0			Initial Weight/Volume:	5.0 mL
Date Analyzed:	07/13/2010 1029			Final Weight/Volume:	50 mL
Date Prepared:	07/06/2010 1100				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Barium	11	I	8.1	100
Iron	360	I	27	500

**6010B Metals (ICP)-Total Recoverable**

Method:	6010B	Analysis Batch:	660-97236	Instrument ID:	ICPA
Preparation:	3005A	Prep Batch:	660-96604	Lab File ID:	10G15A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/15/2010 1543			Final Weight/Volume:	50 mL
Date Prepared:	06/30/2010 1004				

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Calcium	91		0.10	0.50
Potassium	9.4		0.19	1.0
Magnesium	4.1		0.020	0.080
Sodium	21		0.31	0.50

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Boron	53		10	50
Strontium	920		1.0	5.0



**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-35950-1

Sdg Number: 35950

Client Sample ID: 062410-TPGW-7D

Lab Sample ID: 660-35950-6

Date Sampled: 06/24/2010 1800

Client Matrix: Water

Date Received: 06/25/2010 0830

**200.7 Rev 4.4 Metals (ICP)-Total Recoverable**

Method:	200.7 Rev 4.4	Analysis Batch:	640-70850	Instrument ID:	ICP2
Preparation:	200.7	Prep Batch:	640-70571	Lab File ID:	071310.csv
Dilution:	1.0			Initial Weight/Volume:	5.0 mL
Date Analyzed:	07/13/2010 1036			Final Weight/Volume:	50 mL
Date Prepared:	07/06/2010 1100				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Barium	8.1	U	8.1	100
Iron	280	I	27	500

**6010B Metals (ICP)-Total Recoverable**

Method:	6010B	Analysis Batch:	660-97236	Instrument ID:	ICPA
Preparation:	3005A	Prep Batch:	660-96604	Lab File ID:	10G15A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/15/2010 1724			Final Weight/Volume:	50 mL
Date Prepared:	06/30/2010 1004				

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Calcium	91		0.10	0.50
Potassium	4.8		0.19	1.0
Magnesium	3.7		0.020	0.080
Sodium	26		0.31	0.50

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Boron	51		10	50
Strontium	880		1.0	5.0

# Analytical Data

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

## General Chemistry

Client Sample ID: 062410-TPGW-4S

Lab Sample ID: 660-35950-1

Client Matrix: Water

Date Sampled: 06/24/2010 1500

Date Received: 06/25/2010 0830

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Bromide	1.7		mg/L	0.027	0.050	1.0	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2149					
Chloride	490		mg/L	20	50	100	300.0
	Analysis Batch: 660-96938	Date Analyzed: 07/08/2010 0000					
Fluoride	0.055		mg/L	0.020	0.050	1.0	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2149					
Sulfate	20		mg/L	0.20	0.50	1.0	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2149					
Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Dissolved Inorganic Carbon-Dissolved	54		mg/L	1.0	1.0	1.0	9060
	Analysis Batch: 680-173756	Date Analyzed: 07/08/2010 1654					
Alkalinity	200		mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-96877	Date Analyzed: 07/07/2010 1036					
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-96877	Date Analyzed: 07/07/2010 1036					
Total Dissolved Solids	1100		mg/L	5.0	5.0	1.0	SM 2540C
	Analysis Batch: 660-96479	Date Analyzed: 06/28/2010 0948					
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
	Analysis Batch: 660-96518	Date Analyzed: 06/26/2010 1130					

# Analytical Data

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

## General Chemistry

Client Sample ID: 062410-TPGW-4M

Lab Sample ID: 660-35950-2

Date Sampled: 06/24/2010 1330

Client Matrix: Water

Date Received: 06/25/2010 0830

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Bromide	47		mg/L	2.7	5.0	100	300.0
	Analysis Batch: 660-96938		Date Analyzed: 07/08/2010 0021				
Chloride	13000		mg/L	200	500	1000	300.0
	Analysis Batch: 660-96989		Date Analyzed: 07/08/2010 2211				
Fluoride	0.10	U	mg/L	0.10	0.25	5.0	300.0
	Analysis Batch: 660-96989		Date Analyzed: 07/09/2010 0503				
Sulfate	1600		mg/L	20	50	100	300.0
	Analysis Batch: 660-96938		Date Analyzed: 07/08/2010 0021				
Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Dissolved Inorganic Carbon-Dissolved	48		mg/L	1.0	1.0	1.0	9060
	Analysis Batch: 680-173757		Date Analyzed: 07/09/2010 0959				
Alkalinity	210		mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-96877		Date Analyzed: 07/07/2010 1049				
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-96877		Date Analyzed: 07/07/2010 1049				
Total Dissolved Solids	28000		mg/L	250	250	1.0	SM 2540C
	Analysis Batch: 660-96479		Date Analyzed: 06/28/2010 0949				
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
	Analysis Batch: 660-96518		Date Analyzed: 06/26/2010 1130				

# Analytical Data

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

## General Chemistry

Client Sample ID: 062410-TPGW-4D

Lab Sample ID: 660-35950-3

Client Matrix: Water

Date Sampled: 06/24/2010 1300

Date Received: 06/25/2010 0830

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Bromide	54		mg/L	27	50	1000	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2316					
Chloride	16000		mg/L	200	500	1000	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2316					
Fluoride	0.10	U	mg/L	0.10	0.25	5.0	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/09/2010 0524					
Sulfate	1900		mg/L	20	50	100	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2338					
Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Dissolved Inorganic Carbon-Dissolved	45		mg/L	1.0	1.0	1.0	9060
	Analysis Batch: 680-173757	Date Analyzed: 07/09/2010 0959					
Alkalinity	200		mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-96877	Date Analyzed: 07/07/2010 1055					
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-96877	Date Analyzed: 07/07/2010 1055					
Total Dissolved Solids	33000		mg/L	250	250	1.0	SM 2540C
	Analysis Batch: 660-96479	Date Analyzed: 06/28/2010 0949					
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
	Analysis Batch: 660-96518	Date Analyzed: 06/26/2010 1130					

# Analytical Data

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

## General Chemistry

Client Sample ID: 062410-TPGW-7S

Lab Sample ID: 660-35950-4

Date Sampled: 06/24/2010 1655

Client Matrix: Water

Date Received: 06/25/2010 0830

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Bromide	0.18		mg/L	0.027	0.050	1.0	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2044					
Chloride	36		mg/L	0.20	0.50	1.0	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2044					
Fluoride	0.17		mg/L	0.020	0.050	1.0	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2044					
Sulfate	27		mg/L	0.20	0.50	1.0	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2044					
Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Dissolved Inorganic Carbon-Dissolved	44		mg/L	1.0	1.0	1.0	9060
	Analysis Batch: 680-173757	Date Analyzed: 07/09/2010 0959					
Alkalinity	210		mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-96877	Date Analyzed: 07/07/2010 1101					
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-96877	Date Analyzed: 07/07/2010 1101					
Total Dissolved Solids	300		mg/L	5.0	5.0	1.0	SM 2540C
	Analysis Batch: 660-96479	Date Analyzed: 06/28/2010 0950					
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
	Analysis Batch: 660-96518	Date Analyzed: 06/26/2010 1130					

**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-35950-1

Sdg Number: 35950

**General Chemistry**

Client Sample ID: 062410-TPGW-7M

Lab Sample ID: 660-35950-5

Date Sampled: 06/24/2010 1715

Client Matrix: Water

Date Received: 06/25/2010 0830

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Bromide	0.17		mg/L	0.027	0.050	1.0	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2106					
Chloride	35		mg/L	0.20	0.50	1.0	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2106					
Fluoride	0.23		mg/L	0.020	0.050	1.0	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2106					
Sulfate	25		mg/L	0.20	0.50	1.0	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2106					
Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Dissolved Inorganic	47		mg/L	1.0	1.0	1.0	9060
Carbon-Dissolved	Analysis Batch: 680-173757	Date Analyzed: 07/09/2010 0959					
Alkalinity	200		mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-96877	Date Analyzed: 07/07/2010 1107					
Carbonate Alkalinity as CaCO <sub>3</sub>	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-96877	Date Analyzed: 07/07/2010 1107					
Total Dissolved Solids	310		mg/L	5.0	5.0	1.0	SM 2540C
	Analysis Batch: 660-96479	Date Analyzed: 06/28/2010 0950					
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
	Analysis Batch: 660-96518	Date Analyzed: 06/26/2010 1130					

# Analytical Data

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

## General Chemistry

Client Sample ID: 062410-TPGW-7D

Lab Sample ID: 660-35950-6

Client Matrix: Water

Date Sampled: 06/24/2010 1800

Date Received: 06/25/2010 0830

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Bromide	0.21		mg/L	0.027	0.050	1.0	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2128					
Chloride	41		mg/L	0.20	0.50	1.0	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2128					
Fluoride	0.14		mg/L	0.020	0.050	1.0	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2128					
Sulfate	29		mg/L	0.20	0.50	1.0	300.0
	Analysis Batch: 660-96989	Date Analyzed: 07/08/2010 2128					
Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Dissolved Inorganic Carbon-Dissolved	47		mg/L	1.0	1.0	1.0	9060
	Analysis Batch: 680-173757	Date Analyzed: 07/09/2010 0959					
Alkalinity	200		mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-96877	Date Analyzed: 07/07/2010 1113					
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-96877	Date Analyzed: 07/07/2010 1113					
Total Dissolved Solids	320		mg/L	5.0	5.0	1.0	SM 2540C
	Analysis Batch: 660-96479	Date Analyzed: 06/28/2010 0951					
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
	Analysis Batch: 660-96518	Date Analyzed: 06/26/2010 1130					

**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-35950-1

Sdg Number: 35950

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**Field Service / Mobile Lab**

Client Sample ID: 062410-TPGW-4S

Lab Sample ID: 660-35950-1

Date Sampled: 06/24/2010 1500

Client Matrix: Water

Date Received: 06/25/2010 0830

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.31		SU	1.0	Field Sampling	660-97058	06/24/2010 1500
Field Temperature	24.99		Degrees C	1.0	Field Sampling	660-97058	06/24/2010 1500
Oxygen, Dissolved	1.4		mg/L	1.0	Field Sampling	660-97058	06/24/2010 1500
Specific Conductance	1750		umhos/cm	1.0	Field Sampling	660-97058	06/24/2010 1500
Turbidity	2.52		NTU	1.0	Field Sampling	660-97058	06/24/2010 1500



**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-35950-1

Sdg Number: 35950

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**Field Service / Mobile Lab****Client Sample ID: 062410-TPGW-4M**

Lab Sample ID: 660-35950-2

Date Sampled: 06/24/2010 1330

Client Matrix: Water

Date Received: 06/25/2010 0830

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	6.88		SU	1.0	Field Sampling	660-97058	06/24/2010 1330
Field Temperature	25.66		Degrees C	1.0	Field Sampling	660-97058	06/24/2010 1330
Oxygen, Dissolved	2.3		mg/L	1.0	Field Sampling	660-97058	06/24/2010 1330
Specific Conductance	32010		umhos/cm	1.0	Field Sampling	660-97058	06/24/2010 1330
Turbidity	2.0		NTU	1.0	Field Sampling	660-97058	06/24/2010 1330

**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-35950-1

Sdg Number: 35950

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**Field Service / Mobile Lab****Client Sample ID:** 062410-TPGW-4D**Lab Sample ID:** 660-35950-3**Client Matrix:** Water**Date Sampled:** 06/24/2010 1300**Date Received:** 06/25/2010 0830

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	6.92		SU	1.0	Field Sampling	660-97058	06/24/2010 1300
Field Temperature	25.29		Degrees C	1.0	Field Sampling	660-97058	06/24/2010 1300
Oxygen, Dissolved	2.4		mg/L	1.0	Field Sampling	660-97058	06/24/2010 1300
Specific Conductance	37010		umhos/cm	1.0	Field Sampling	660-97058	06/24/2010 1300
Turbidity	0.02		NTU	1.0	Field Sampling	660-97058	06/24/2010 1300

**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-35950-1

Sdg Number: 35950

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**Field Service / Mobile Lab**

Client Sample ID: 062410-TPGW-7S

Lab Sample ID: 660-35950-4

Client Matrix: Water

Date Sampled: 06/24/2010 1655

Date Received: 06/25/2010 0830

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.22		SU	1.0	Field Sampling	660-97058	06/24/2010 1655
Field Temperature	24.80		Degrees C	1.0	Field Sampling	660-97058	06/24/2010 1655
Oxygen, Dissolved	2.0		mg/L	1.0	Field Sampling	660-97058	06/24/2010 1655
Specific Conductance	483		umhos/cm	1.0	Field Sampling	660-97058	06/24/2010 1655
Turbidity	3.81		NTU	1.0	Field Sampling	660-97058	06/24/2010 1655

**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-35950-1

Sdg Number: 35950

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**Field Service / Mobile Lab****Client Sample ID: 062410-TPGW-7M**

Lab Sample ID: 660-35950-5

Date Sampled: 06/24/2010 1715

Client Matrix: Water

Date Received: 06/25/2010 0830

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.19		SU	1.0	Field Sampling	660-97058	06/24/2010 1715
Field Temperature	25.05		Degrees C	1.0	Field Sampling	660-97058	06/24/2010 1715
Oxygen, Dissolved	1.5		mg/L	1.0	Field Sampling	660-97058	06/24/2010 1715
Specific Conductance	500		umhos/cm	1.0	Field Sampling	660-97058	06/24/2010 1715
Turbidity	2.29		NTU	1.0	Field Sampling	660-97058	06/24/2010 1715

**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-35950-1

Sdg Number: 35950

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**Field Service / Mobile Lab**

Client Sample ID: 062410-TPGW-7D

Lab Sample ID: 660-35950-6

Date Sampled: 06/24/2010 1800

Client Matrix: Water

Date Received: 06/25/2010 0830

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.19		SU	1.0	Field Sampling	660-97058	06/24/2010 1800
Field Temperature	25.12		Degrees C	1.0	Field Sampling	660-97058	06/24/2010 1800
Oxygen, Dissolved	2.3		mg/L	1.0	Field Sampling	660-97058	06/24/2010 1800
Specific Conductance	510		umhos/cm	1.0	Field Sampling	660-97058	06/24/2010 1800
Turbidity	1.34		NTU	1.0	Field Sampling	660-97058	06/24/2010 1800

## DATA REPORTING QUALIFIERS

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

Lab Section	Qualifier	Description
Metals		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
General Chemistry		
	U	Indicates that the compound was analyzed for but not detected.

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

### Method Blank - Batch: 640-70571

Method: 200.7 Rev 4.4

Preparation: 200.7

Total Recoverable

Lab Sample ID: MB 640-70571/1-A

Analysis Batch: 640-70850

Instrument ID: ICP2

Client Matrix: Water

Prep Batch: 640-70571

Lab File ID: 071310.csv

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 50 mL

Date Analyzed: 07/13/2010 0852

Final Weight/Volume: 50 mL

Date Prepared: 07/06/2010 1100

Analyte	Result	Qual	MDL	PQL
Barium	0.81	U	0.81	10
Iron	2.7	U	2.7	50

### Lab Control Sample/

Method: 200.7 Rev 4.4

Lab Control Sample Duplicate Recovery Report - Batch: 640-70571

Preparation: 200.7

Total Recoverable

LCS Lab Sample ID: LCS 640-70571/2-A

Analysis Batch: 640-70850

Instrument ID: ICP2

Client Matrix: Water

Prep Batch: 640-70571

Lab File ID: 071310.csv

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 50 mL

Date Analyzed: 07/13/2010 0856

Final Weight/Volume: 50 mL

Date Prepared: 07/06/2010 1100

LCSD Lab Sample ID: LCSD 640-70571/3-A

Analysis Batch: 640-70850

Instrument ID: ICP2

Client Matrix: Water

Prep Batch: 640-70571

Lab File ID: 071310.csv

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 50 mL

Date Analyzed: 07/13/2010 0859

Final Weight/Volume: 50 mL

Date Prepared: 07/06/2010 1100

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Barium	101	102	85 - 115	1	20		
Iron	102	103	85 - 115	1	20		

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

### Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 640-70571

Method: 200.7 Rev 4.4

Preparation: 200.7

Total Recoverable

MS Lab Sample ID: 660-36031-B-1-B MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/13/2010 0910  
Date Prepared: 07/06/2010 1100

Analysis Batch: 640-70850  
Prep Batch: 640-70571

Instrument ID: ICP2  
Lab File ID: 071310.csv  
Initial Weight/Volume: 5.0 mL  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-36031-B-1-C MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/13/2010 0913  
Date Prepared: 07/06/2010 1100

Analysis Batch: 640-70850  
Prep Batch: 640-70571

Instrument ID: ICP2  
Lab File ID: 071310.csv  
Initial Weight/Volume: 5.0 mL  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Barium	101	98	70 - 130	2	20		
Iron	99	96	70 - 130	3	20		

### Duplicate - Batch: 640-70571

Method: 200.7 Rev 4.4

Preparation: 200.7

Total Recoverable

Lab Sample ID: 660-36031-B-2-B DU  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/13/2010 0934  
Date Prepared: 07/06/2010 1100

Analysis Batch: 640-70850  
Prep Batch: 640-70571  
Units: ug/L

Instrument ID: ICP2  
Lab File ID: 071310.csv  
Initial Weight/Volume: 5.0 mL  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Barium	130	123	2	20	
Iron	8600	8340	3	20	



## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

### Method Blank - Batch: 660-96604

Lab Sample ID: MB 660-96604/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/15/2010 1250  
Date Prepared: 06/30/2010 1004

Analysis Batch: 660-97236  
Prep Batch: 660-96604  
Units: mg/L

### Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: ICPA  
Lab File ID: 10G15A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Calcium	0.10	U	0.10	0.50
Potassium	0.19	U	0.19	1.0
Magnesium	0.020	U	0.020	0.080
Sodium	0.31	U	0.31	0.50

### Method Blank - Batch: 660-96604

Lab Sample ID: MB 660-96604/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/15/2010 1250  
Date Prepared: 06/30/2010 1004

Analysis Batch: 660-97236  
Prep Batch: 660-96604  
Units: ug/L

### Method: 6010B Preparation: 3005A Total Recoverable

Instrument ID: ICPA  
Lab File ID: 10G15A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Boron	10	U	10	50
Strontium	1.0	U	1.0	5.0

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

### Lab Control Sample - Batch: 660-96604

Method: 6010B

Preparation: 3005A

Total Recoverable

Lab Sample ID: LCS 660-96604/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/15/2010 1256  
Date Prepared: 06/30/2010 1004

Analysis Batch: 660-97236  
Prep Batch: 660-96604  
Units: mg/L

Instrument ID: ICPA  
Lab File ID: 10G15A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium	1.00	1.05	105	75 - 125	
Potassium	10.0	10.1	101	75 - 125	
Magnesium	1.00	1.03	103	75 - 125	
Sodium	10.0	9.85	98	75 - 125	

### Lab Control Sample - Batch: 660-96604

Method: 6010B

Preparation: 3005A

Total Recoverable

Lab Sample ID: LCS 660-96604/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/15/2010 1256  
Date Prepared: 06/30/2010 1004

Analysis Batch: 660-97236  
Prep Batch: 660-96604  
Units: ug/L

Instrument ID: ICPA  
Lab File ID: 10G15A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Boron	1000	1020	102	75 - 125	
Strontium	1000	1070	107	75 - 125	

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

### Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 660-96604

Method: 6010B

Preparation: 3005A

Total Recoverable

MS Lab Sample ID: 660-36004-B-9-B MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/15/2010 1314  
Date Prepared: 06/30/2010 1004

Analysis Batch: 660-97236  
Prep Batch: 660-96604

Instrument ID: ICPA  
Lab File ID: 10G15A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-36004-B-9-C MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/15/2010 1320  
Date Prepared: 06/30/2010 1004

Analysis Batch: 660-97236  
Prep Batch: 660-96604

Instrument ID: ICPA  
Lab File ID: 10G15A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Calcium	93	250	75 - 125	1	20		J3
Potassium	111	113	75 - 125	2	20		
Magnesium	103	108	75 - 125	2	20		
Sodium	104	92	75 - 125	8	20		

### Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 660-96604

Method: 6010B

Preparation: 3005A

Total Recoverable

MS Lab Sample ID: 660-36004-B-9-B MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/15/2010 1314  
Date Prepared: 06/30/2010 1004

Analysis Batch: 660-97236  
Prep Batch: 660-96604

Instrument ID: ICPA  
Lab File ID: 10G15A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-36004-B-9-C MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/15/2010 1320  
Date Prepared: 06/30/2010 1004

Analysis Batch: 660-97236  
Prep Batch: 660-96604

Instrument ID: ICPA  
Lab File ID: 10G15A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Boron	104	105	75 - 125	1	20		
Strontium	107	109	75 - 125	2	20		

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

### Method Blank - Batch: 660-96938

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 660-96938/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/07/2010 1246  
Date Prepared: N/A

Analysis Batch: 660-96938  
Prep Batch: N/A  
Units: mg/L

Instrument ID: DIONEX2  
Lab File ID: 10.0000.TXT  
Initial Weight/Volume:  
Final Weight/Volume: 1 mL

Analyte	Result	Qual	MDL	PQL
Bromide	0.027	U	0.027	0.050
Chloride	0.20	U	0.20	0.50
Sulfate	0.20	U	0.20	0.50

### Lab Control Sample - Batch: 660-96938

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 660-96938/4  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/07/2010 1307  
Date Prepared: N/A

Analysis Batch: 660-96938  
Prep Batch: N/A  
Units: mg/L

Instrument ID: DIONEX2  
Lab File ID: 11.0000.TXT  
Initial Weight/Volume:  
Final Weight/Volume: 1 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	1.00	1.00	100	90 - 110	
Chloride	10.0	10.1	101	90 - 110	
Sulfate	10.0	10.2	102	90 - 110	

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-35950-1  
Sdg Number: 35950

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 660-96938**

**Method: 300.0  
Preparation: N/A**

MS Lab Sample ID: 660-35992-B-3 MS ^10      Analysis Batch: 660-96938  
Client Matrix: Water      Prep Batch: N/A  
Dilution: 10  
Date Analyzed: 07/07/2010 2211  
Date Prepared: N/A

Instrument ID: DIONEX2  
Lab File ID: 32.0000.TXT  
Initial Weight/Volume:  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-35992-B-3 MSD ^10      Analysis Batch: 660-96938  
Client Matrix: Water      Prep Batch: N/A  
Dilution: 10  
Date Analyzed: 07/07/2010 2233  
Date Prepared: N/A

Instrument ID: DIONEX2  
Lab File ID: 33.0000.TXT  
Initial Weight/Volume:  
Final Weight/Volume: 50 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Bromide	102	104	90 - 110	1	30		
Chloride	102	105	90 - 110	1	30		
Sulfate	103	104	90 - 110	1	30		

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

### Method Blank - Batch: 660-96989

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 660-96989/3

Analysis Batch: 660-96989

Instrument ID: DIONEX2

Client Matrix: Water

Prep Batch: N/A

Lab File ID: 21.0000.TXT

Dilution: 1.0

Units: mg/L

Initial Weight/Volume:

Date Analyzed: 07/08/2010 2001

Final Weight/Volume: 1 mL

Date Prepared: N/A

Analyte	Result	Qual	MDL	PQL
Bromide	0.027	U	0.027	0.050
Chloride	0.20	U	0.20	0.50
Fluoride	0.020	U	0.020	0.050
Sulfate	0.20	U	0.20	0.50

### Lab Control Sample - Batch: 660-96989

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 660-96989/4

Analysis Batch: 660-96989

Instrument ID: DIONEX2

Client Matrix: Water

Prep Batch: N/A

Lab File ID: 22.0000.TXT

Dilution: 1.0

Units: mg/L

Initial Weight/Volume:

Date Analyzed: 07/08/2010 2022

Final Weight/Volume: 1 mL

Date Prepared: N/A

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	1.00	0.976	98	90 - 110	
Chloride	10.0	10.2	102	90 - 110	
Fluoride	1.00	0.950	95	90 - 110	
Sulfate	10.0	10.2	102	90 - 110	

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

### Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 660-96989

Method: 300.0

Preparation: N/A

MS Lab Sample ID: 660-35950-2  
Client Matrix: Water  
Dilution: 1000  
Date Analyzed: 07/08/2010 2233  
Date Prepared: N/A

Analysis Batch: 660-96989  
Prep Batch: N/A

Instrument ID: DIONEX2  
Lab File ID: 28.0000.TXT  
Initial Weight/Volume:  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-35950-2  
Client Matrix: Water  
Dilution: 1000  
Date Analyzed: 07/08/2010 2254  
Date Prepared: N/A

Analysis Batch: 660-96989  
Prep Batch: N/A

Instrument ID: DIONEX2  
Lab File ID: 29.0000.TXT  
Initial Weight/Volume:  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Bromide	104	106	90 - 110	1	30		
Chloride	104	105	90 - 110	0	30		
Fluoride	109	101	90 - 110	8	30		
Sulfate	101	101	90 - 110	0	30		

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

### Method Blank - Batch: 680-173756

Method: 9060

Preparation: N/A

Lab Sample ID: MB 680-173756/1

Analysis Batch: 680-173756

Instrument ID: TOC3

Client Matrix: Water

Prep Batch: N/A

Lab File ID: N/A

Dilution: 1.0

Units: mg/L

Initial Weight/Volume: 25 mL

Date Analyzed: 07/08/2010 1654

Final Weight/Volume: 25 mL

Date Prepared: N/A

Analyte	Result	Qual	PQL	PQL
Dissolved Inorganic Carbon-Dissolved	1.0	U	1.0	1.0
Dissolved Carbon-Dissolved	1.0	U	1.0	1.0

### Lab Control Sample - Batch: 680-173756

Method: 9060

Preparation: N/A

Lab Sample ID: LCS 680-173756/2

Analysis Batch: 680-173756

Instrument ID: TOC3

Client Matrix: Water

Prep Batch: N/A

Lab File ID: N/A

Dilution: 1.0

Units: mg/L

Initial Weight/Volume: 25 mL

Date Analyzed: 07/08/2010 1654

Final Weight/Volume: 25 mL

Date Prepared: N/A

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dissolved Inorganic Carbon-Dissolved	20.0	19.7	98		
Dissolved Carbon-Dissolved	20.0	19.7	98		



## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

### Method Blank - Batch: 680-173757

Method: 9060

Preparation: N/A

Lab Sample ID: MB 680-173757/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/09/2010 0959  
Date Prepared: N/A

Analysis Batch: 680-173757  
Prep Batch: N/A  
Units: mg/L

Instrument ID: TOC3  
Lab File ID: N/A  
Initial Weight/Volume: 25 mL  
Final Weight/Volume: 25 mL

Analyte	Result	Qual	PQL	PQL
Dissolved Inorganic Carbon-Dissolved	1.0	U	1.0	1.0
Dissolved Carbon-Dissolved	1.0	U	1.0	1.0

### Lab Control Sample - Batch: 680-173757

Method: 9060

Preparation: N/A

Lab Sample ID: LCS 680-173757/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/09/2010 0959  
Date Prepared: N/A

Analysis Batch: 680-173757  
Prep Batch: N/A  
Units: mg/L

Instrument ID: TOC3  
Lab File ID: N/A  
Initial Weight/Volume: 25 mL  
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dissolved Inorganic Carbon-Dissolved	20.0	19.3	96		
Dissolved Carbon-Dissolved	20.0	19.3	96		

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

### Method Blank - Batch: 660-96877

### Method: SM 2320B

Preparation: N/A

Lab Sample ID: MB 660-96877/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/07/2010 1023  
Date Prepared: N/A

Analysis Batch: 660-96877  
Prep Batch: N/A  
Units: mg/L

Instrument ID: MANTECH  
Lab File ID: 7.7.10a.txt  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	PQL	PQL
Alkalinity	1.0	U	1.0	1.0

### Lab Control Sample - Batch: 660-96877

### Method: SM 2320B

Preparation: N/A

Lab Sample ID: LCS 660-96877/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/07/2010 1030  
Date Prepared: N/A

Analysis Batch: 660-96877  
Prep Batch: N/A  
Units: mg/L

Instrument ID: MANTECH  
Lab File ID: 7.7.10a.txt  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	118	117	99	80 - 120	

### Duplicate - Batch: 660-96877

### Method: SM 2320B

Preparation: N/A

Lab Sample ID: 660-35950-1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/07/2010 1042  
Date Prepared: N/A

Analysis Batch: 660-96877  
Prep Batch: N/A  
Units: mg/L

Instrument ID: MANTECH  
Lab File ID: 7.7.10a.txt  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Alkalinity	200	204	2	30	
Carbonate Alkalinity as CaCO <sub>3</sub>	1.0 U	1.0	NC	30	U

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

### Method Blank - Batch: 660-96479

Method: SM 2540C

Preparation: N/A

Lab Sample ID: MB 660-96479/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/28/2010 0937  
Date Prepared: N/A

Analysis Batch: 660-96479  
Prep Batch: N/A  
Units: mg/L

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	PQL	PQL
Total Dissolved Solids	5.0	U	5.0	5.0

### Lab Control Sample - Batch: 660-96479

Method: SM 2540C

Preparation: N/A

Lab Sample ID: LCS 660-96479/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/28/2010 0938  
Date Prepared: N/A

Analysis Batch: 660-96479  
Prep Batch: N/A  
Units: mg/L

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Dissolved Solids	10000	9910	99	80 - 120	

### Duplicate - Batch: 660-96479

Method: SM 2540C

Preparation: N/A

Lab Sample ID: 660-35950-6  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/28/2010 0951  
Date Prepared: N/A

Analysis Batch: 660-96479  
Prep Batch: N/A  
Units: mg/L

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	320	314	1	20	

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-35950-1

Sdg Number: 35950

### Method Blank - Batch: 660-96518

Method: SM 4500 S2 F

Preparation: N/A

Lab Sample ID: MB 660-96518/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/26/2010 1130  
Date Prepared: N/A

Analysis Batch: 660-96518  
Prep Batch: N/A  
Units: mg/L

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 250 mL

Analyte	Result	Qual	PQL	PQL
Sulfide	1.0	U	1.0	1.0

### Lab Control Sample/

### Lab Control Sample Duplicate Recovery Report - Batch: 660-96518

Method: SM 4500 S2 F

Preparation: N/A

LCS Lab Sample ID: LCS 660-96518/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/26/2010 1130  
Date Prepared: N/A

Analysis Batch: 660-96518  
Prep Batch: N/A  
Units: mg/L

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 250 mL

LCSD Lab Sample ID: LCSD 660-96518/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/26/2010 1130  
Date Prepared: N/A

Analysis Batch: 660-96518  
Prep Batch: N/A  
Units: mg/L

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 250 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Sulfide	96	98	75 - 125	2	25		

Phone (813) 885-7427 Fax (813) 885-7049

TestAmerica

SECRET

[illegible]

# GROUNDWATER SAMPLING LOG

SITE NAME: 062410-TPGW-45		SITE LOCATION:	
WELL NO:		SAMPLE ID:	
		DATE: 06/24/10	

## PURGING DATA

WELL DIAMETER (inches):	2" <sup>2.5</sup>	TUBING DIAMETER (inches):	3/4" <sup>3.5</sup>	WELL SCREEN INTERVAL DEPTH: 22.5 feet to 24.5 feet	STATIC DEPTH TO WATER (feet):	1.9 ft	PURGE PUMP TYPE OR BAILER:	PP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable)

is \_\_\_\_\_ feet - \_\_\_\_\_ feet) · X \_\_\_\_\_ gallons/foot = \_\_\_\_\_ gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

$$= \text{gallons} + (.0014 \text{ gallons/foot} \times 28.5 \text{ feet}) + \text{gallons} = .04 \text{ gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 235	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 236	PURGING INITIATED AT: 1433	PURGING ENDED AT: 1456	TOTAL VOLUME PURGED (gallons): 27
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CRP

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WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 6.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J. Jacobs	SAMPLER(S) SIGNATURE(S): 	SAMPLING INITIATED AT: 1600	SAMPLING ENDED AT: 1524
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PUMP OR TUBING DEPTH IN WELL (feet):	23.5	TUBING MATERIAL CODE:	T	FIELD-FILTERED: <input checked="" type="radio"/> N	FILTER SIZE: 45 µm
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FIELD DECONTAMINATION: PUMP Y ~~N~~ TUBING Y ~~N~~ (replaced) DUPLICATE: Y ~~N~~

[illegible]

REMARKS:

Please see Analyte Sample cost for GW w/out nutrients  
for remaining samples.

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After Peristaltic Pump; B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump;  
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH:  $\pm 0.2$  units Temperature:  $\pm 0.2^\circ\text{C}$  Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2\text{ mg/L}$  or  $\pm 10\%$  (whichever is greater) Turbidity: all readings  $\leq 20\text{ NTU}$ ; optionally  $\pm 5\text{ NTU}$  or  $\pm 10\%$  (whichever is greater)

Revision Date: February 12, 2009

SITE NAME:	062410-TPGW-4	SITE LOCATION:	
WELL NO:		SAMPLE ID:	DATE: 06/24/10

PURGING DATA			
WELL DIAMETER (inches): 2" <sup>FD</sup>	TUBING DIAMETER (inches): 3/4" <sup>n</sup>	WELL SCREEN INTERVAL DEPTH: 38 feet to 43 feet	STATIC DEPTH TO WATER (feet): 2.0
		PURGE PUMP TYPE OR BAILER: PP	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
(only fill out if applicable)

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
(only fill out if applicable)

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 41 ft	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 41 ft	PURGING INITIATED AT: 1230	PURGING ENDED AT: 13:07	TOTAL VOLUME PURGED (gallons): 3.500
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ORP

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- 4.2

- 27.9

---

- 36.4

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (gal. ft.): 18" = 0.0008; 31/8" = 0.0014; 1 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLED BY (PRINT) / AFFILIATION: [Signature] / [Affiliation]		SAMPLER(S) SIGNATURE(S): [Signature]	SAMPLING INITIATED AT: 1330	SAMPLING ENDED AT: 1344
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PUMP OR TUBING DEPTH IN WELL (feet): <u>41 ft</u>	TUBING MATERIAL CODE: <u>T</u>	FIELD-FILTERED: <u>0</u> N Filtration Equipment Type: _____
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FIELD DECONTAMINATION:	PUMP	Y	N	TUBING	Y	<del>N</del> (replaced)	DUPLICATE:	Y	N
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[illegible]

REMARKS: please see analysis sample list for CWD w/out nutrients for remaining samples.

**MATERIAL CODES:** AG = Amber Glass; GG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;  
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION:** Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); pH:  $\pm 0.2$  units Temperature:  $\pm 0.2^\circ\text{C}$  Specific Conductance:  $\pm 5\%$  Turbidity: all readings  $\leq 20$  NTU; optionally  $\pm 5$  NTU or  $\pm 10\%$  (whichever is greater) optionally,  $\pm 0.2$  mg/L or  $\pm 10\%$  (whichever is greater)

Revision Date: February 12, 2009

# GROUNDWATER SAMPLING LOG

SITE NAME: 062410-TPGW-40		SITE LOCATION:	
WELL NO:	SAMPLE ID:	DATE: 0624-10	

## PURGING DATA

WELL DIAMETER (inches): 2 <sup>1/2</sup>	TUBING DIAMETER (inches): 3 <sup>1/2</sup>	WELL SCREEN INTERVAL DEPTH: 62 feet to 66 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: PP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
(only fill out if applicable)

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
(only fill out if applicable)

= gallons + (6.14 gallons/foot X 70 feet) + gallons = .092 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 65 ft	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 65 ft	PURGING INITIATED AT: 12:15	PURGING ENDED AT: 12:55	TOTAL VOLUME PURGED (gallons): 3.25
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[illegible]



ORP  
-56.5  
-70.2  
-62.

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02: 1" = 0.04: 1.25" = 0.06: 2" = 0.16: 3" = 0.37: 4" = 0.65: 5" = 1.02: 6" = 1.47: 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.014

PURGING EQUIPMENT CODES: B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

### SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J. Jacobs / S. Itade	SAMPLER(S) SIGNATURE(S):  	SAMPLING INITIATED AT: 1300	SAMPLING ENDED AT: 1324
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PUMP OR TUBING DEPTH IN WELL (feet): 65	TUBING MATERIAL CODE: T	FIELD-FILTERED: <input checked="" type="radio"/> N Filtration Equipment Type:	FILTER SIZE: 45 µm
--	----------------------------	--	--------------------

FIELD DECONTAMINATION:	PUMP	Y	<input checked="" type="radio"/>	TUBING	Y	<input checked="" type="radio"/> (replaced)	DUPLICATE:	Y	<input checked="" type="radio"/>
------------------------	------	---	----------------------------------	--------	---	---	------------	---	----------------------------------

[illegible]

REMARKS: please fill Analyze sample list for GW report returned to for remaining samples

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH:  $\pm 0.2$  units Temperature:  $\pm 0.2$  °C Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2$  mg/L or  $\pm 10\%$  (whichever is greater) Turbidity: all readings  $\leq 20$  NTU; optionally  $\pm 5$  NTU or  $\pm 10\%$  (whichever is greater)

Revision Date: February 12, 2009





10 - TPCW

**PURGING DATA**

ORNP  
-106.7  
-108.4  
-102.3

## SAMPLING DATA

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH:  $\pm 0.2$  units Temperature:  $\pm 0.2$  °C Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2$  mg/L or  $\pm 10\%$  (whichever is greater) Turbidity: all readings  $\leq 20$  NTU; optionally  $\pm 5$  NTU or  $\pm 10\%$  (whichever is greater)

Revision Date: February 12, 2009

## Form FD 9000-24

SITE NAME: 062410-TP4W-70		SITE LOCATION:	
WELL NO:		DATE: 06-24-20	

## PURGING DATA

[illegible]

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J. Jacobs				SAMPLER(S) SIGNATURE(S): [Signature]				SAMPLING INITIATED AT: 1800		SAMPLING ENDED AT: 1812		
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE: T		FIELD-FILTERED: <input checked="" type="radio"/> N			FILTER SIZE: 45 µm			
FIELD DECONTAMINATION: PUMP Y <input checked="" type="radio"/> TUBING Y <input checked="" type="radio"/> (Replaced):						DUPLICATE: Y <input checked="" type="radio"/>						
SAMPLE CONTAINER SPECIFICATION						SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml. per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
	1	PE	500 ml	NH <sub>4</sub> OH	500 ml	10	SWAZE		APP	0.12		
	1	PE	250 ml	NH <sub>4</sub> OH	250 ml	2	Strontium		APP	22		
	1	PE	250 ml	NH <sub>4</sub> OH	250 ml	1	metals		APP	11		
	1	AG	125 ml	HCl	125 ml	1	DOC		APP	11		
REMARKS: Please see analysis sample 178 for GW w/out nutrients for remaining samples.												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-16D, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH:  $\pm 0.2$  units Temperature:  $\pm 0.2$  °C Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2$  mg/L or  $\pm 10\%$  (whichever is greater) Turbidity: all readings  $\leq 20$  NTU; optionally  $\pm 5$  NTU or  $\pm 10\%$  (whichever is greater)

Revision Date: February 12, 2009

## Login Sample Receipt Check List

Client: Florida Power & Light Company

Job Number: 660-35950-1

SDG Number: 35950

Login Number: 35950

List Source: TestAmerica Tampa

Creator: McNulty, Carol

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	4.1, 4.5 degrees C Cu-07
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	245.1 on coc-not in project, 200.7 to tally in proj. but not checked off on coc
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

## Login Sample Receipt Check List

Client: Florida Power & Light Company

Job Number: 660-35950-1

SDG Number: 35950

Login Number: 35950

Creator: Kicklighter, Marilyn

List Number: 1

List Source: TestAmerica Savannah

List Creation: 06/29/10 02:14 PM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	False	

## Login Sample Receipt Check List

Client: Florida Power & Light Company

Job Number: 660-35950-1

SDG Number: 35950

Login Number: 35950

Creator: Archie, Datiska

List Number: 1

List Source: TestAmerica Tallahassee

List Creation: 07/02/10 12:06 PM

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	