

## ANALYTICAL REPORT

Job Number: 660-36167-1

SDG Number: 36167

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  
9/8/2010 3:25 PM

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Amy Atkins  
Project Manager I  
amy.atkins@testamericainc.com  
09/08/2010

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.

**TestAmerica Laboratories, Inc.**

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**Job Narrative**  
**660-36167-1**

**Receipt**

SWCCS-1B, Received DIC Bottle Broken.

All other samples were received in good condition within temperature requirements.

**Metals**

Method 200.7 Rev 4.4: The following samples were diluted due to the nature of the sample matrix: 070910 SWCCS-1B (660-36167-1), 070910 SWCCS-5B (660-36167-2), 070910 SWCCS-5T (660-36167-3).

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Calcium and Sodium in batch 98458 were outside control limits with the sample greater than 4x the spike level. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Boron, Calcium, Potassium and Sodium in batch 98458 were outside control limits with the sample greater than 4x the spike level. The associated laboratory control sample (LCS) recovery met acceptance criteria.

**General Chemistry**

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 98043 were outside control limits for Chloride. The associated laboratory control sample (LCS) recovery met acceptance criteria. The data is flagged with J3.

Method 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 71115 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 365.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 70844 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. The data is flagged with J3.

Method SM 4500 P E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 70808 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method SM 4500 P E: The OP results are significantly higher than the TP results due to severe matrix interference caused by the saline matrix.

## EXECUTIVE SUMMARY - Detections

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
<b>660-36167-1</b>	<b>070910 SWCCS-1B</b>				
Gross Alpha		15.8+-1.2	0.4	pCi/L	900.0
Field pH		8.2		SU	Field Sampling
Field Temperature		39.04		Degrees C	Field Sampling
Oxygen, Dissolved		4.55		mg/L	Field Sampling
Specific Conductance		76510		umhos/cm	Field Sampling
Turbidity		3.5		NTU	Field Sampling
Bromide		130	10	mg/L	300.0
Chloride		36000 J3	500	mg/L	300.0
Sulfate		5000	100	mg/L	300.0
Nitrogen, Kjeldahl		2.2	0.20	mg/L	351.2
Phosphorus		0.029	0.010	mg/L	365.1
Alkalinity		150	1.0	mg/L	SM 2320B
Total Dissolved Solids		77000	250	mg/L	SM 2540C
Ammonia		0.083	0.050	mg/L	SM 4500 NH3 G
Nitrogen, Total		2.2	0.21	mg/L	Total Nitrogen
Unionized Ammonia		0.019	0.000017	mg/L	UnionizedNH3
<b><i>Dissolved</i></b>					
SiO2, Silica		430 I	2500	ug/L	200.7 Rev 4.4
Dissolved Inorganic Carbon-Dissolved		30	1.0	mg/L	9060
ortho-Phosphate-Dissolved		0.051 I	0.50	mg/L	SM 4500 P E
<b><i>Total Recoverable</i></b>					
Barium		82 I	100	ug/L	200.7 Rev 4.4
Boron		8700	500	ug/L	6010B
Calcium		810	5.0	mg/L	6010B
Potassium		790	200	mg/L	6010B
Strontium		15000	50	ug/L	6010B
Magnesium		2500	0.80	mg/L	6010B
Sodium		20000	100	mg/L	6010B

## EXECUTIVE SUMMARY - Detections

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
<b>660-36167-2</b>	<b>070910 SWCCS-5B</b>				
Gross Alpha		16.5+-1.3	0.4	pCi/L	900.0
Field pH		8.14		SU	Field Sampling
Field Temperature		32.64		Degrees C	Field Sampling
Oxygen, Dissolved		1.91		mg/L	Field Sampling
Specific Conductance		76380		umhos/cm	Field Sampling
Turbidity		4.60		NTU	Field Sampling
Bromide		120	10	mg/L	300.0
Chloride		37000 J3	500	mg/L	300.0
Sulfate		5000	100	mg/L	300.0
Nitrogen, Kjeldahl		2.3	0.20	mg/L	351.2
Phosphorus		0.024	0.010	mg/L	365.1
Alkalinity		150	1.0	mg/L	SM 2320B
Total Dissolved Solids		79000	250	mg/L	SM 2540C
Ammonia		0.13	0.050	mg/L	SM 4500 NH3 G
Nitrogen, Total		2.3	0.21	mg/L	Total Nitrogen
Unionized Ammonia		0.019	0.000017	mg/L	UnionizedNH3
<b><i>Dissolved</i></b>					
SiO2, Silica		380 I	2500	ug/L	200.7 Rev 4.4
Dissolved Inorganic Carbon-Dissolved		32	1.0	mg/L	9060
ortho-Phosphate-Dissolved		0.062 I	0.50	mg/L	SM 4500 P E
<b><i>Total Recoverable</i></b>					
Barium		100	100	ug/L	200.7 Rev 4.4
Boron		8800	500	ug/L	6010B
Calcium		830	5.0	mg/L	6010B
Potassium		810	200	mg/L	6010B
Strontium		16000	50	ug/L	6010B
Magnesium		2600	0.80	mg/L	6010B
Sodium		19000	200	mg/L	6010B

## EXECUTIVE SUMMARY - Detections

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

Lab Sample ID	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
Analyte						
<b>660-36167-3</b>	<b>070910 SWCCS-5T</b>					
Gross Alpha		16.9+-1.3		0.4	pCi/L	900.0
Field pH		8.15			SU	Field Sampling
Field Temperature		33.22			Degrees C	Field Sampling
Oxygen, Dissolved		2.05			mg/L	Field Sampling
Specific Conductance		76420			umhos/cm	Field Sampling
Turbidity		3.45			NTU	Field Sampling
Bromide		130		10	mg/L	300.0
Chloride		37000	J3	500	mg/L	300.0
Sulfate		5100		100	mg/L	300.0
Nitrogen, Kjeldahl		2.2		0.20	mg/L	351.2
Phosphorus		0.024		0.010	mg/L	365.1
Alkalinity		160		1.0	mg/L	SM 2320B
Total Dissolved Solids		75000		250	mg/L	SM 2540C
Ammonia		0.093		0.050	mg/L	SM 4500 NH3 G
Nitrogen, Total		2.2		0.21	mg/L	Total Nitrogen
Unionized Ammonia		0.014		0.000017	mg/L	UnionizedNH3
<b><i>Dissolved</i></b>						
Dissolved Inorganic Carbon-Dissolved		32		1.0	mg/L	9060
ortho-Phosphate-Dissolved		0.052	I	0.50	mg/L	SM 4500 P E
<b><i>Total Recoverable</i></b>						
Barium		97	I	100	ug/L	200.7 Rev 4.4
Boron		8600		500	ug/L	6010B
Calcium		810		5.0	mg/L	6010B
Potassium		800		200	mg/L	6010B
Strontium		15000		50	ug/L	6010B
Magnesium		2500		0.80	mg/L	6010B
Sodium		20000		100	mg/L	6010B

## METHOD SUMMARY

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

Description	Lab Location	Method	Preparation Method
<b>Matrix: Water</b>			
Metals (ICP)	TAL SAV	40CFR136A 200.7 Rev 4.4	
Sample Filtration	TAL SAV		FILTRATION
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	
Nitrogen, Total Kjeldahl	TAL TAM	MCAWW 351.2	
Nitrogen, Total Kjeldahl	TAL TAM		MCAWW 351.2
Nitrogen, Nitrate-Nitrite	TAL TAL	MCAWW 353.2	
Phosphorus, Total	TAL TAL	EPA 365.1	
Phosphorus, Total	TAL TAL		MCAWW 365.2/365.3/365
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	
Ammonia	TAL SAV	SM SM 4500 NH3 G	
Ammonia, Distillation	TAL SAV		SM SM 4500 NH3 B
Orthophosphate	TAL TAL	SM SM 4500 P E	
Sample Filtration, Field	TAL TAL		FIELD_FLTRD
Sulfide, Total	TAL TAM	SM SM 4500 S2 F	
Nitrogen, Total	TAL TAL	EPA Total Nitrogen	
Ammonia, Unionized	TAL SAV	FL-DEP UnionizedNH3	
Gross Alpha and Gross Beta Radioactivity	SC0009	EPA 900.0	
Field Sampling	TAL TAM	EPA Field Sampling	

### Lab References:

SC0009 = KNL Laboratory Services

TAL SAV = TestAmerica Savannah

TAL TAL = TestAmerica Tallahassee

TAL TAM = TestAmerica Tampa

## METHOD SUMMARY

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

Description	Lab Location	Method	Preparation Method
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**Method References:**

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

FL-DEP = State Of Florida Department Of Environmental Protection, Florida Administrative Code.

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: 660-36167-1

Sdg Number: 36167

Method	Analyst	Analyst ID
EPA 900.0	ANALYST, SUBCONTRACTED	SUB
40CFR136A 200.7 Rev 4.4	Bland, Brian	BCB
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
MCAWW 351.2	Office, Trey	TO
MCAWW 353.2	Williams, Tabatha D	TDW
EPA 365.1	Carlisle, Felicia F	FFC
SW846 9060	Blackshear, Kim	KB
SM SM 2320B	Steward, Tiffany	TS
SM SM 2540C	Oonnoony, Thomas	TO
SM SM 4500 NH3 G	Ross, Jon	JR
SM SM 4500 P E	Carlisle, Felicia F	FFC
SM SM 4500 S2 F	Mostafavifar, Efe	EM
EPA Total Nitrogen	Wallace, Tiffany B	TBW
FL-DEP UnionizedNH3	Ross, Jon	JR



## SAMPLE SUMMARY

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-36167-1	070910 SWCCS-1B	Water	07/09/2010 1025	07/10/2010 0900
660-36167-2	070910 SWCCS-5B	Water	07/09/2010 1120	07/10/2010 0900
660-36167-3	070910 SWCCS-5T	Water	07/09/2010 1150	07/10/2010 0900

**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-36167-1

Sdg Number: 36167

**Client Sample ID: 070910 SWCCS-1B**

Lab Sample ID: 660-36167-1

Date Sampled: 07/09/2010 1025

Client Matrix: Water

Date Received: 07/10/2010 0900

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

Method:	200.7 Rev 4.4	Analysis Batch: 640-71119	Instrument ID:	ICP2
Preparation:	200.7	Prep Batch: 640-71054	Lab File ID:	072110.csv
Dilution:	1.0		Initial Weight/Volume:	5.0 mL
Date Analyzed:	07/21/2010 0858		Final Weight/Volume:	50 mL
Date Prepared:	07/20/2010 1050			

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Barium	82	I	8.1	100
Iron	27	U	27	500

**200.7 Rev 4.4 Metals (ICP)-Dissolved**

Method:	200.7 Rev 4.4	Analysis Batch: 680-174801	Instrument ID:	Varian ICP
Preparation:	N/A		Lab File ID:	E07202010A_SI.csv
Dilution:	5.0		Initial Weight/Volume:	
Date Analyzed:	07/20/2010 1601		Final Weight/Volume:	1.0 mL
Date Prepared:				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO <sub>2</sub> , Silica	430	I	250	2500

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

Method:	6010B	Analysis Batch: 660-98550	Instrument ID:	ICPA
Preparation:	3005A	Prep Batch: 660-98458	Lab File ID:	10H12A
Dilution:	10		Initial Weight/Volume:	50 mL
Date Analyzed:	08/12/2010 1224	Run Type: DL	Final Weight/Volume:	50 mL
Date Prepared:	08/11/2010 0912			

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Calcium	810		1.0	5.0
Magnesium	2500		0.20	0.80

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Boron	8700		100	500
Strontium	15000		10	50

Method:	6010B	Analysis Batch: 660-98550	Instrument ID:	ICPA
Preparation:	3005A	Prep Batch: 660-98458	Lab File ID:	10H12A
Dilution:	200		Initial Weight/Volume:	50 mL
Date Analyzed:	08/12/2010 1459	Run Type: DL2	Final Weight/Volume:	50 mL
Date Prepared:	08/11/2010 0912			

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Potassium	790		38	200
Sodium	20000		62	100

**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-36167-1

Sdg Number: 36167

**Client Sample ID: 070910 SWCCS-5B**

Lab Sample ID: 660-36167-2

Date Sampled: 07/09/2010 1120

Client Matrix: Water

Date Received: 07/10/2010 0900

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

Method:	200.7 Rev 4.4	Analysis Batch: 640-71119	Instrument ID:	ICP2
Preparation:	200.7	Prep Batch: 640-71054	Lab File ID:	072110.csv
Dilution:	1.0		Initial Weight/Volume:	5.0 mL
Date Analyzed:	07/21/2010 0926		Final Weight/Volume:	50 mL
Date Prepared:	07/20/2010 1050			

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

**200.7 Rev 4.4 Metals (ICP)-Dissolved**

Method:	200.7 Rev 4.4	Analysis Batch: 680-174801	Instrument ID:	Varian ICP
Preparation:	N/A		Lab File ID:	E07202010A_SI.csv
Dilution:	5.0		Initial Weight/Volume:	
Date Analyzed:	07/20/2010 1604		Final Weight/Volume:	1.0 mL
Date Prepared:				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	380	I	250	2500

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

Method:	6010B	Analysis Batch: 660-98550	Instrument ID:	ICPA
Preparation:	3005A	Prep Batch: 660-98458	Lab File ID:	10H12A
Dilution:	10		Initial Weight/Volume:	50 mL
Date Analyzed:	08/12/2010 1230	Run Type: DL	Final Weight/Volume:	50 mL
Date Prepared:	08/11/2010 0912			

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Calcium	830		1.0	5.0
Magnesium	2600		0.20	0.80

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Boron	8800		100	500
Strontium	16000		10	50

Method:	6010B	Analysis Batch: 660-98550	Instrument ID:	ICPA
Preparation:	3005A	Prep Batch: 660-98458	Lab File ID:	10H12A
Dilution:	200		Initial Weight/Volume:	50 mL
Date Analyzed:	08/12/2010 1505	Run Type: DL2	Final Weight/Volume:	50 mL
Date Prepared:	08/11/2010 0912			

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Potassium	810		38	200

## Analytical Data

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

Client Sample ID: 070910 SWCCS-5B

Lab Sample ID: 660-36167-2

Date Sampled: 07/09/2010 1120

Client Matrix: Water

Date Received: 07/10/2010 0900

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

Method:	6010B	Analysis Batch:	660-98550	Instrument ID:	ICPA
Preparation:	3005A	Prep Batch:	660-98458	Lab File ID:	10H12A
Dilution:	400			Initial Weight/Volume:	50 mL
Date Analyzed:	08/12/2010 1822	Run Type:	DL3	Final Weight/Volume:	50 mL
Date Prepared:	08/11/2010 0912				

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Sodium	19000		120	200

**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-36167-1

Sdg Number: 36167

**Client Sample ID: 070910 SWCCS-5T**

Lab Sample ID: 660-36167-3

Date Sampled: 07/09/2010 1150

Client Matrix: Water

Date Received: 07/10/2010 0900

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

Method:	200.7 Rev 4.4	Analysis Batch: 640-71119	Instrument ID:	ICP2
Preparation:	200.7	Prep Batch: 640-71054	Lab File ID:	072110.csv
Dilution:	1.0		Initial Weight/Volume:	5.0 mL
Date Analyzed:	07/21/2010 0929		Final Weight/Volume:	50 mL
Date Prepared:	07/20/2010 1050			

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Barium	97	I	8.1	100
Iron	27	U	27	500

**200.7 Rev 4.4 Metals (ICP)-Dissolved**

Method:	200.7 Rev 4.4	Analysis Batch: 680-174801	Instrument ID:	Varian ICP
Preparation:	N/A		Lab File ID:	E07202010A_SI.csv
Dilution:	5.0		Initial Weight/Volume:	
Date Analyzed:	07/20/2010 1611		Final Weight/Volume:	1.0 mL
Date Prepared:				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	250	U	250	2500

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

Method:	6010B	Analysis Batch: 660-98550	Instrument ID:	ICPA
Preparation:	3005A	Prep Batch: 660-98458	Lab File ID:	10H12A
Dilution:	10		Initial Weight/Volume:	50 mL
Date Analyzed:	08/12/2010 1236	Run Type: DL	Final Weight/Volume:	50 mL
Date Prepared:	08/11/2010 0912			

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Calcium	810		1.0	5.0
Magnesium	2500		0.20	0.80

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Boron	8600		100	500
Strontium	15000		10	50

Method:	6010B	Analysis Batch: 660-98550	Instrument ID:	ICPA
Preparation:	3005A	Prep Batch: 660-98458	Lab File ID:	10H12A
Dilution:	200		Initial Weight/Volume:	50 mL
Date Analyzed:	08/12/2010 1511	Run Type: DL2	Final Weight/Volume:	50 mL
Date Prepared:	08/11/2010 0912			

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Potassium	800		38	200
Sodium	20000		62	100

# Analytical Data

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

## General Chemistry

Client Sample ID: 070910 SWCCS-1B

Lab Sample ID: 660-36167-1

Date Sampled: 07/09/2010 1025

Client Matrix: Water

Date Received: 07/10/2010 0900

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Bromide	130		mg/L	5.4	10	200	300.0
Run Type: DL	Analysis Batch: 660-97879	Date Analyzed: 07/28/2010 1933					
Chloride	36000	J3	mg/L	200	500	1000	300.0
Run Type: DL2	Analysis Batch: 660-98043	Date Analyzed: 07/30/2010 0039					
Fluoride	0.10	U	mg/L	0.10	0.25	5.0	300.0
	Analysis Batch: 660-97879	Date Analyzed: 07/28/2010 2038					
Sulfate	5000		mg/L	40	100	200	300.0
Run Type: DL	Analysis Batch: 660-97879	Date Analyzed: 07/28/2010 1933					
Nitrogen, Kjeldahl	2.2		mg/L	0.050	0.20	1.0	351.2
	Analysis Batch: 660-97195	Date Analyzed: 07/14/2010 1408					
	Prep Batch: 660-97149	Date Prepared: 07/13/2010 1700					
Nitrate Nitrite as N	0.0047	U	mg/L	0.0047	0.010	1.0	353.2
	Analysis Batch: 640-71115	Date Analyzed: 07/21/2010 1701					
Phosphorus	0.029		mg/L	0.0044	0.010	1.0	365.1
	Analysis Batch: 640-70844	Date Analyzed: 07/13/2010 1522					
	Prep Batch: 640-70820	Date Prepared: 07/13/2010 0913					
Ammonia	0.083		mg/L	0.026	0.050	1.0	SM 4500 NH3
	Analysis Batch: 680-175620	Date Analyzed: 07/28/2010 1655					
	Prep Batch: 680-175577	Date Prepared: 07/28/2010 1406					
ortho-Phosphate-Dissolved	0.051	I	mg/L	0.014	0.50	10	SM 4500 P E
	Analysis Batch: 640-70808	Date Analyzed: 07/10/2010 2037					
Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Dissolved Inorganic Carbon-Dissolved	30		mg/L	1.0	1.0	1.0	9060
	Analysis Batch: 680-175700	Date Analyzed: 07/29/2010 0738					
Alkalinity	150		mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-97310	Date Analyzed: 07/16/2010 1047					
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-97310	Date Analyzed: 07/16/2010 1047					
Total Dissolved Solids	77000		mg/L	250	250	1.0	SM 2540C
	Analysis Batch: 660-97110	Date Analyzed: 07/13/2010 0938					
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
	Analysis Batch: 660-97096	Date Analyzed: 07/12/2010 1400					
Nitrogen, Total	2.2		mg/L	0.21	0.21	1.0	Total Nitrogen
	Analysis Batch: 640-71120	Date Analyzed: 07/21/2010 2047					
Unionized Ammonia	0.019		mg/L	0.000017	0.000017	1.0	UnionizedNH3
	Analysis Batch: 680-175858	Date Analyzed: 07/28/2010 1730					

## Analytical Data

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### General Chemistry

Client Sample ID: 070910 SWCCS-5B

Lab Sample ID: 660-36167-2

Date Sampled: 07/09/2010 1120

Client Matrix: Water

Date Received: 07/10/2010 0900

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Bromide	120		mg/L	5.4	10	200	300.0
Run Type: DL	Analysis Batch: 660-97879	Date Analyzed: 07/28/2010 1954					
Chloride	37000	J3	mg/L	200	500	1000	300.0
Run Type: DL2	Analysis Batch: 660-98043	Date Analyzed: 07/30/2010 0101					
Fluoride	0.10	U	mg/L	0.10	0.25	5.0	300.0
	Analysis Batch: 660-97879	Date Analyzed: 07/28/2010 2059					
Sulfate	5000		mg/L	40	100	200	300.0
Run Type: DL	Analysis Batch: 660-97879	Date Analyzed: 07/28/2010 1954					
Nitrogen, Kjeldahl	2.3		mg/L	0.050	0.20	1.0	351.2
	Analysis Batch: 660-97195	Date Analyzed: 07/14/2010 1409					
	Prep Batch: 660-97149	Date Prepared: 07/13/2010 1700					
Nitrate Nitrite as N	0.0047	U	mg/L	0.0047	0.010	1.0	353.2
	Analysis Batch: 640-71115	Date Analyzed: 07/21/2010 1101					
Phosphorus	0.024		mg/L	0.0044	0.010	1.0	365.1
	Analysis Batch: 640-70844	Date Analyzed: 07/13/2010 1534					
	Prep Batch: 640-70820	Date Prepared: 07/13/2010 0913					
Ammonia	0.13		mg/L	0.026	0.050	1.0	SM 4500 NH3
	Analysis Batch: 680-175620	Date Analyzed: 07/28/2010 1655					
	Prep Batch: 680-175577	Date Prepared: 07/28/2010 1406					
ortho-Phosphate-Dissolved	0.062	I	mg/L	0.014	0.50	10	SM 4500 P E
	Analysis Batch: 640-70808	Date Analyzed: 07/10/2010 2045					
Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Dissolved Inorganic Carbon-Dissolved	32		mg/L	1.0	1.0	1.0	9060
	Analysis Batch: 680-175700	Date Analyzed: 07/29/2010 0738					
Alkalinity	150		mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-97310	Date Analyzed: 07/16/2010 1100					
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-97310	Date Analyzed: 07/16/2010 1100					
Total Dissolved Solids	79000		mg/L	250	250	1.0	SM 2540C
	Analysis Batch: 660-97110	Date Analyzed: 07/13/2010 0939					
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
	Analysis Batch: 660-97096	Date Analyzed: 07/12/2010 1400					
Nitrogen, Total	2.3		mg/L	0.21	0.21	1.0	Total Nitrogen
	Analysis Batch: 640-71120	Date Analyzed: 07/21/2010 2047					
Unionized Ammonia	0.019		mg/L	0.000017	0.000017	1.0	UnionizedNH3
	Analysis Batch: 680-175858	Date Analyzed: 07/28/2010 1730					

**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-36167-1

Sdg Number: 36167

**General Chemistry****Client Sample ID: 070910 SWCCS-5T**

Lab Sample ID: 660-36167-3

Date Sampled: 07/09/2010 1150

Client Matrix: Water

Date Received: 07/10/2010 0900

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Bromide	130		mg/L	5.4	10	200	300.0
Run Type: DL	Analysis Batch: 660-97879	Date Analyzed: 07/28/2010	2016				
Chloride	37000	J3	mg/L	200	500	1000	300.0
Run Type: DL2	Analysis Batch: 660-98043	Date Analyzed: 07/30/2010	0123				
Fluoride	0.10	U	mg/L	0.10	0.25	5.0	300.0
	Analysis Batch: 660-97879	Date Analyzed: 07/28/2010	2121				
Sulfate	5100		mg/L	40	100	200	300.0
Run Type: DL	Analysis Batch: 660-97879	Date Analyzed: 07/28/2010	2016				
Nitrogen, Kjeldahl	2.2		mg/L	0.050	0.20	1.0	351.2
	Analysis Batch: 660-97195	Date Analyzed: 07/14/2010	1411				
	Prep Batch: 660-97149	Date Prepared: 07/13/2010	1700				
Nitrate Nitrite as N	0.0047	U	mg/L	0.0047	0.010	1.0	353.2
	Analysis Batch: 640-71115	Date Analyzed: 07/21/2010	1102				
Phosphorus	0.024		mg/L	0.0044	0.010	1.0	365.1
	Analysis Batch: 640-70844	Date Analyzed: 07/13/2010	1535				
	Prep Batch: 640-70820	Date Prepared: 07/13/2010	0913				
Ammonia	0.093		mg/L	0.026	0.050	1.0	SM 4500 NH3
	Analysis Batch: 680-175620	Date Analyzed: 07/28/2010	1702				
	Prep Batch: 680-175577	Date Prepared: 07/28/2010	1406				
ortho-Phosphate-Dissolved	0.052	I	mg/L	0.014	0.50	10	SM 4500 P E
	Analysis Batch: 640-70808	Date Analyzed: 07/10/2010	2035				
Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Dissolved Inorganic Carbon-Dissolved	32		mg/L	1.0	1.0	1.0	9060
	Analysis Batch: 680-175700	Date Analyzed: 07/29/2010	0738				
Alkalinity	160		mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-97310	Date Analyzed: 07/16/2010	1106				
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
	Analysis Batch: 660-97310	Date Analyzed: 07/16/2010	1106				
Total Dissolved Solids	75000		mg/L	250	250	1.0	SM 2540C
	Analysis Batch: 660-97110	Date Analyzed: 07/13/2010	0940				
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
	Analysis Batch: 660-97096	Date Analyzed: 07/12/2010	1400				
Nitrogen, Total	2.2		mg/L	0.21	0.21	1.0	Total Nitrogen
	Analysis Batch: 640-71120	Date Analyzed: 07/21/2010	2047				
Unionized Ammonia	0.014		mg/L	0.000017	0.000017	1.0	UnionizedNH3
	Analysis Batch: 680-175858	Date Analyzed: 07/28/2010	1730				



## Analytical Data

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

Client Sample ID: 070910 SWCCS-1B

Lab Sample ID: 660-36167-1

Date Sampled: 07/09/2010 1025

Client Matrix: Water

% Moisture:

Date Received: 07/10/2010 0900

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### 900.0 Gross Alpha and Gross Beta Radioactivity

Method:	900.0	Analysis Batch: 660-97599	Instrument ID:	NOEQUIP
Preparation:	N/A		Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	1.0 mL
Date Analyzed:	07/20/2010 1545		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	

Analyte	Result (pCi/L)	Qualifier	PQL
Gross Alpha	15.8+-1.2		0.4

## Analytical Data

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

Client Sample ID: 070910 SWCCS-5B

Lab Sample ID: 660-36167-2

Date Sampled: 07/09/2010 1120

Client Matrix: Water

% Moisture:

Date Received: 07/10/2010 0900

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### 900.0 Gross Alpha and Gross Beta Radioactivity

Method:	900.0	Analysis Batch: 660-97599	Instrument ID:	NOEQUIP
Preparation:	N/A		Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	1.0 mL
Date Analyzed:	07/20/2010 1545		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	

Analyte	Result (pCi/L)	Qualifier	PQL
Gross Alpha	16.5+-1.3		0.4

## Analytical Data

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

Client Sample ID: 070910 SWCCS-5T

Lab Sample ID: 660-36167-3

Date Sampled: 07/09/2010 1150

Client Matrix: Water

% Moisture:

Date Received: 07/10/2010 0900

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### 900.0 Gross Alpha and Gross Beta Radioactivity

Method:	900.0	Analysis Batch: 660-97599	Instrument ID:	NOEQUIP
Preparation:	N/A		Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	1.0 mL
Date Analyzed:	07/20/2010 1545		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	

Analyte	Result (pCi/L)	Qualifier	PQL
Gross Alpha	16.9+-1.3		0.4

**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-36167-1

Sdg Number: 36167

**Field Service / Mobile Lab****Client Sample ID: 070910 SWCCS-1B**

Lab Sample ID: 660-36167-1

Date Sampled: 07/09/2010 1025

Client Matrix: Water

Date Received: 07/10/2010 0900

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	8.2		SU	1.0	Field Sampling	660-97501	07/09/2010 1025
Field Temperature	39.04		Degrees C	1.0	Field Sampling	660-97501	07/09/2010 1025
Oxygen, Dissolved	4.55		mg/L	1.0	Field Sampling	660-97501	07/09/2010 1025
Specific Conductance	76510		umhos/cm	1.0	Field Sampling	660-97501	07/09/2010 1025
Turbidity	3.5		NTU	1.0	Field Sampling	660-97501	07/09/2010 1025

**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-36167-1

Sdg Number: 36167

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**Field Service / Mobile Lab****Client Sample ID: 070910 SWCCS-5B**

Lab Sample ID: 660-36167-2

Date Sampled: 07/09/2010 1120

Client Matrix: Water

Date Received: 07/10/2010 0900

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	8.14		SU	1.0	Field Sampling	660-97501	07/09/2010 1120
Field Temperature	32.64		Degrees C	1.0	Field Sampling	660-97501	07/09/2010 1120
Oxygen, Dissolved	1.91		mg/L	1.0	Field Sampling	660-97501	07/09/2010 1120
Specific Conductance	76380		umhos/cm	1.0	Field Sampling	660-97501	07/09/2010 1120
Turbidity	4.60		NTU	1.0	Field Sampling	660-97501	07/09/2010 1120

**Analytical Data**

Client: Florida Power &amp; Light Company

Job Number: 660-36167-1

Sdg Number: 36167

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**Field Service / Mobile Lab****Client Sample ID: 070910 SWCCS-5T**

Lab Sample ID: 660-36167-3

Date Sampled: 07/09/2010 1150

Client Matrix: Water

Date Received: 07/10/2010 0900

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	8.15		SU	1.0	Field Sampling	660-97501	07/09/2010 1150
Field Temperature	33.22		Degrees C	1.0	Field Sampling	660-97501	07/09/2010 1150
Oxygen, Dissolved	2.05		mg/L	1.0	Field Sampling	660-97501	07/09/2010 1150
Specific Conductance	76420		umhos/cm	1.0	Field Sampling	660-97501	07/09/2010 1150
Turbidity	3.45		NTU	1.0	Field Sampling	660-97501	07/09/2010 1150

## DATA REPORTING QUALIFIERS

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

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	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.

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Method Blank - Batch: 680-174801

Method: 200.7 Rev 4.4

Preparation: N/A

Lab Sample ID: MB 680-174777/1-A

Analysis Batch: 680-174801

Instrument ID: Varian ICP

Client Matrix: Water

Prep Batch: N/A

Lab File ID: E07202010A\_SI.csv

Dilution: 1.0

Units: ug/L

Initial Weight/Volume:

Date Analyzed: 07/20/2010 1353

Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Analyte	Result	Qual	MDL	PQL
SiO2, Silica	50	U	50	500

### Lab Control Sample - Batch: 680-174801

Method: 200.7 Rev 4.4

Preparation: N/A

Lab Sample ID: LCS 680-174777/2-A

Analysis Batch: 680-174801

Instrument ID: Varian ICP

Client Matrix: Water

Prep Batch: N/A

Lab File ID: E07202010A\_SI.csv

Dilution: 1.0

Units: ug/L

Initial Weight/Volume:

Date Analyzed: 07/20/2010 1356

Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
SiO2, Silica	10000	8810	88	85 - 115	



## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 680-174801

### Method: 200.7 Rev 4.4

### Preparation: N/A

MS Lab Sample ID: 640-28772-G-1-E MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/20/2010 1409  
Date Prepared: N/A

Analysis Batch: 680-174801  
Prep Batch: N/A

Instrument ID: Varian ICP  
Lab File ID: E07202010A\_SI.csv  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

MSD Lab Sample ID: 640-28772-G-1-F MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/20/2010 1412  
Date Prepared: N/A

Analysis Batch: 680-174801  
Prep Batch: N/A

Instrument ID: Varian ICP  
Lab File ID: E07202010A\_SI.csv  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
SiO2, Silica	90	91	75 - 125	0	20		

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 680-174801

### Method: 200.7 Rev 4.4

### Preparation: N/A

MS Lab Sample ID: 680-59377-E-1-D MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/20/2010 1436  
Date Prepared: N/A

Analysis Batch: 680-174801  
Prep Batch: N/A

Instrument ID: Varian ICP  
Lab File ID: E07202010A\_SI.csv  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

MSD Lab Sample ID: 680-59377-E-1-E MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/20/2010 1439  
Date Prepared: N/A

Analysis Batch: 680-174801  
Prep Batch: N/A

Instrument ID: Varian ICP  
Lab File ID: E07202010A\_SI.csv  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
SiO2, Silica	111	121	75 - 125	2	20		

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Method Blank - Batch: 640-71054

Lab Sample ID: MB 640-71054/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/21/2010 0957  
Date Prepared: 07/20/2010 1050

Analysis Batch: 640-71119  
Prep Batch: 640-71054  
Units: ug/L

### Method: 200.7 Rev 4.4

#### Preparation: 200.7

#### Total Recoverable

Instrument ID: ICP2  
Lab File ID: 072110.csv  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Barium	0.81	U	0.81	10
Iron	13.5	I	2.7	50

### Lab Control Sample/

#### Lab Control Sample Duplicate Recovery Report - Batch: 640-71054

### Method: 200.7 Rev 4.4

#### Preparation: 200.7

#### Total Recoverable

LCS Lab Sample ID: LCS 640-71054/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/21/2010 1007  
Date Prepared: 07/20/2010 1050

Analysis Batch: 640-71119  
Prep Batch: 640-71054  
Units: ug/L

Instrument ID: ICP2  
Lab File ID: 072110.csv  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 640-71054/3-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/21/2010 1011  
Date Prepared: 07/20/2010 1050

Analysis Batch: 640-71119  
Prep Batch: 640-71054  
Units: ug/L

Instrument ID: ICP2  
Lab File ID: 072110.csv  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Barium	107	105	85 - 115	2	20		
Iron	104	102	85 - 115	2	20		

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 640-71054

### Method: 200.7 Rev 4.4

### Preparation: 200.7

### Total Recoverable

MS Lab Sample ID: 660-36167-1  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 07/21/2010 0905  
 Date Prepared: 07/20/2010 1050

Analysis Batch: 640-71119  
 Prep Batch: 640-71054

Instrument ID: ICP2  
 Lab File ID: 072110.csv  
 Initial Weight/Volume: 5.0 mL  
 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-36167-1  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 07/21/2010 0909  
 Date Prepared: 07/20/2010 1050

Analysis Batch: 640-71119  
 Prep Batch: 640-71054

Instrument ID: ICP2  
 Lab File ID: 072110.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	104	103	70 - 130	2	20		
Iron	99	98	70 - 130	1	20		

### Duplicate - Batch: 640-71054

### Method: 200.7 Rev 4.4

### Preparation: 200.7

### Total Recoverable

Lab Sample ID: 660-36167-1  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 07/21/2010 0902  
 Date Prepared: 07/20/2010 1050

Analysis Batch: 640-71119  
 Prep Batch: 640-71054  
 Units: ug/L

Instrument ID: ICP2  
 Lab File ID: 072110.csv  
 Initial Weight/Volume: 5.0 mL  
 Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Barium	82	I	74.0	11	20	I
Iron	27	U	27	NC	20	U

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Method Blank - Batch: 660-98458

Lab Sample ID: MB 660-98458/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/12/2010 1142  
Date Prepared: 08/11/2010 0912

Analysis Batch: 660-98550  
Prep Batch: 660-98458  
Units: mg/L

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

Instrument ID: ICPA  
Lab File ID: 10H12A  
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: 660-98458

Lab Sample ID: MB 660-98458/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/12/2010 1142  
Date Prepared: 08/11/2010 0912

Analysis Batch: 660-98550  
Prep Batch: 660-98458  
Units: ug/L

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

Instrument ID: ICPA  
Lab File ID: 10H12A  
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: 660-36167-1

Sdg Number: 36167

### Lab Control Sample - Batch: 660-98458

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

Lab Sample ID: LCS 660-98458/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/12/2010 1148  
Date Prepared: 08/11/2010 0912

Analysis Batch: 660-98550  
Prep Batch: 660-98458  
Units: mg/L

Instrument ID: ICPA  
Lab File ID: 10H12A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium	1.00	1.06	106	75 - 125	
Potassium	10.0	9.97	99	75 - 125	
Magnesium	1.00	1.02	102	75 - 125	
Sodium	19.0	19.1	101	75 - 125	

### Lab Control Sample - Batch: 660-98458

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

Lab Sample ID: LCS 660-98458/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/12/2010 1148  
Date Prepared: 08/11/2010 0912

Analysis Batch: 660-98550  
Prep Batch: 660-98458  
Units: ug/L

Instrument ID: ICPA  
Lab File ID: 10H12A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Boron	1000	985	98	75 - 125	
Strontium	1000	1040	104	75 - 125	

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 660-98458

Method: 6010B

Preparation: 3005A

Total Recoverable

MS Lab Sample ID: 660-36659-E-1-B MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/12/2010 1206  
Date Prepared: 08/11/2010 0912

Analysis Batch: 660-98550  
Prep Batch: 660-98458

Instrument ID: ICPA  
Lab File ID: 10H12A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-36659-E-1-C MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/12/2010 1212  
Date Prepared: 08/11/2010 0912

Analysis Batch: 660-98550  
Prep Batch: 660-98458

Instrument ID: ICPA  
Lab File ID: 10H12A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Calcium	-58	-371	75 - 125	3	20	J3	J3
Potassium	120	118	75 - 125	1	20		
Magnesium	97	80	75 - 125	3	20		
Sodium	227	215	75 - 125	1	20	J3	J3

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 660-98458

Method: 6010B

Preparation: 3005A

Total Recoverable

MS Lab Sample ID: 660-36659-E-1-B MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/12/2010 1206  
Date Prepared: 08/11/2010 0912

Analysis Batch: 660-98550  
Prep Batch: 660-98458

Instrument ID: ICPA  
Lab File ID: 10H12A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-36659-E-1-C MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/12/2010 1212  
Date Prepared: 08/11/2010 0912

Analysis Batch: 660-98550  
Prep Batch: 660-98458

Instrument ID: ICPA  
Lab File ID: 10H12A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Boron	101	99	75 - 125	2	20		
Strontium	104	101	75 - 125	2	20		

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 660-98458

Method: 6010B

Preparation: 3005A

Total Recoverable

MS Lab Sample ID: 660-36605-D-2-B MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/12/2010 1332  
Date Prepared: 08/11/2010 0912

Analysis Batch: 660-98550  
Prep Batch: 660-98458

Instrument ID: ICPA  
Lab File ID: 10H12A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-36605-D-2-C MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/12/2010 1338  
Date Prepared: 08/11/2010 0912

Analysis Batch: 660-98550  
Prep Batch: 660-98458

Instrument ID: ICPA  
Lab File ID: 10H12A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Calcium	-737	-800	75 - 125	1	20	J3	J3
Potassium	150	143	75 - 125	2	20	J3	J3
Magnesium	114	106	75 - 125	1	20		
Sodium	186	158	75 - 125	2	20	J3	J3

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 660-98458

Method: 6010B

Preparation: 3005A

Total Recoverable

MS Lab Sample ID: 660-36605-D-2-B MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/12/2010 1332  
Date Prepared: 08/11/2010 0912

Analysis Batch: 660-98550  
Prep Batch: 660-98458

Instrument ID: ICPA  
Lab File ID: 10H12A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-36605-D-2-C MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 08/12/2010 1338  
Date Prepared: 08/11/2010 0912

Analysis Batch: 660-98550  
Prep Batch: 660-98458

Instrument ID: ICPA  
Lab File ID: 10H12A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Boron	66	64	75 - 125	2	20	J3	J3
Strontium	108	104	75 - 125	2	20		

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Method Blank - Batch: 660-97879

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 660-97879/11

Analysis Batch: 660-97879

Instrument ID: DIONEX2

Client Matrix: Water

Prep Batch: N/A

Lab File ID: 11.0000.TXT

Dilution: 1.0

Units: mg/L

Initial Weight/Volume:

Date Analyzed: 07/28/2010 1744

Final Weight/Volume: 1 mL

Date Prepared: N/A

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

### Lab Control Sample - Batch: 660-97879

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 660-97879/12

Analysis Batch: 660-97879

Instrument ID: DIONEX2

Client Matrix: Water

Prep Batch: N/A

Lab File ID: 12.0000.TXT

Dilution: 1.0

Units: mg/L

Initial Weight/Volume:

Date Analyzed: 07/28/2010 1806

Final Weight/Volume: 1 mL

Date Prepared: N/A

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	1.00	1.00	100	90 - 110	
Fluoride	1.00	1.05	105	90 - 110	
Sulfate	10.0	10.8	108	90 - 110	



## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Matrix Spike/

**Matrix Spike Duplicate Recovery Report - Batch: 660-97879**

**Method: 300.0**

**Preparation: N/A**

MS Lab Sample ID: 660-36387-C-6 MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/28/2010 1849  
Date Prepared: N/A

Analysis Batch: 660-97879  
Prep Batch: N/A

Instrument ID: DIONEX2  
Lab File ID: 14.0000.TXT  
Initial Weight/Volume:  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-36387-C-6 MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/28/2010 1911  
Date Prepared: N/A

Analysis Batch: 660-97879  
Prep Batch: N/A

Instrument ID: DIONEX2  
Lab File ID: 15.0000.TXT  
Initial Weight/Volume:  
Final Weight/Volume: 50 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Bromide	100	98	90 - 110	2	30		
Fluoride	109	104	90 - 110	4	30		
Sulfate	107	105	90 - 110	1	30		

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Method Blank - Batch: 660-98043

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 660-98043/10  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/29/2010 2208  
Date Prepared: N/A

Analysis Batch: 660-98043  
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
Chloride	0.20	U	0.20	0.50

### Lab Control Sample - Batch: 660-98043

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 660-98043/11  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/29/2010 2229  
Date Prepared: N/A

Analysis Batch: 660-98043  
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
Chloride	10.0	10.1	101	90 - 110	

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 660-98043

Method: 300.0

Preparation: N/A

MS Lab Sample ID: 660-36167-3DL2  
Client Matrix: Water  
Dilution: 1000  
Date Analyzed: 07/30/2010 0144  
Date Prepared: N/A

Analysis Batch: 660-98043  
Prep Batch: N/A  
Run Type: DL2

Instrument ID: DIONEX2  
Lab File ID: 20.0000.TXT  
Initial Weight/Volume:  
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-36167-3DL2  
Client Matrix: Water  
Dilution: 1000  
Date Analyzed: 07/30/2010 0206  
Date Prepared: N/A

Analysis Batch: 660-98043  
Prep Batch: N/A  
Run Type: DL2

Instrument ID: DIONEX2  
Lab File ID: 21.0000.TXT  
Initial Weight/Volume:  
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chloride	89	83	90 - 110	1	30	J3	J3

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Method Blank - Batch: 660-97149

Method: 351.2

Preparation: 351.2

Lab Sample ID: MB 660-97149/10-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/14/2010 1357  
Date Prepared: 07/13/2010 1700

Analysis Batch: 660-97195  
Prep Batch: 660-97149  
Units: mg/L

Instrument ID: LACHAT  
Lab File ID: 07.14.10.TKN.2.txt  
Initial Weight/Volume: 20 mL  
Final Weight/Volume: 20 mL

Analyte	Result	Qual	MDL	PQL
Nitrogen, Kjeldahl	0.050	U	0.050	0.20

### Lab Control Sample - Batch: 660-97149

Method: 351.2

Preparation: 351.2

Lab Sample ID: LCS 660-97149/11-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/14/2010 1358  
Date Prepared: 07/13/2010 1700

Analysis Batch: 660-97195  
Prep Batch: 660-97149  
Units: mg/L

Instrument ID: LACHAT  
Lab File ID: 07.14.10.TKN.2.txt  
Initial Weight/Volume: 20 mL  
Final Weight/Volume: 20 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrogen, Kjeldahl	3.00	3.09	103	90 - 110	

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 660-97149

Method: 351.2

Preparation: 351.2

MS Lab Sample ID: 660-36200-A-2-E MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/14/2010 1401  
Date Prepared: 07/13/2010 1700

Analysis Batch: 660-97195  
Prep Batch: 660-97149

Instrument ID: LACHAT  
Lab File ID: 07.14.10.TKN.2.txt  
Initial Weight/Volume: 20 mL  
Final Weight/Volume: 20 mL

MSD Lab Sample ID: 660-36200-A-2-F MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/14/2010 1402  
Date Prepared: 07/13/2010 1700

Analysis Batch: 660-97195  
Prep Batch: 660-97149

Instrument ID: LACHAT  
Lab File ID: 07.14.10.TKN.2.txt  
Initial Weight/Volume: 20 mL  
Final Weight/Volume: 20 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrogen, Kjeldahl	97	93	90 - 110	4	30		

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Method Blank - Batch: 640-71115

Method: 353.2

Preparation: N/A

Lab Sample ID: MB 640-71115/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/21/2010 1006  
Date Prepared: N/A

Analysis Batch: 640-71115  
Prep Batch: N/A  
Units: mg/L

Instrument ID: ASTORIA  
Lab File ID: NO2+NO3072110A1.txt  
Initial Weight/Volume: 25.0 mL  
Final Weight/Volume: 25.0 mL

Analyte	Result	Qual	MDL	PQL
Nitrate Nitrite as N	0.0047	U	0.0047	0.010

### Lab Control Sample/

### Lab Control Sample Duplicate Recovery Report - Batch: 640-71115

Method: 353.2

Preparation: N/A

LCS Lab Sample ID: LCS 640-71115/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/21/2010 1009  
Date Prepared: N/A

Analysis Batch: 640-71115  
Prep Batch: N/A  
Units: mg/L

Instrument ID: ASTORIA  
Lab File ID: NO2+NO3072110A1.txt  
Initial Weight/Volume: 25.0 mL  
Final Weight/Volume: 25.0 mL

LCSD Lab Sample ID: LCSD 640-71115/4  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/21/2010 1010  
Date Prepared: N/A

Analysis Batch: 640-71115  
Prep Batch: N/A  
Units: mg/L

Instrument ID: ASTORIA  
Lab File ID: NO2+NO3072110A1.txt  
Initial Weight/Volume: 25.0 mL  
Final Weight/Volume: 25.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Nitrate Nitrite as N	102	101	90 - 110	0	30		

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 640-71115

Method: 353.2

Preparation: N/A

MS Lab Sample ID: 640-28772-A-1 MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/21/2010 1017  
Date Prepared: N/A

Analysis Batch: 640-71115  
Prep Batch: N/A

Instrument ID: ASTORIA  
Lab File ID: NO2+NO3072110A1.txt  
Initial Weight/Volume: 25.0 mL  
Final Weight/Volume: 25.0 mL

MSD Lab Sample ID: 640-28772-A-1 MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/21/2010 1018  
Date Prepared: N/A

Analysis Batch: 640-71115  
Prep Batch: N/A

Instrument ID: ASTORIA  
Lab File ID: NO2+NO3072110A1.txt  
Initial Weight/Volume: 25.0 mL  
Final Weight/Volume: 25.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrate Nitrite as N	114	115	90 - 110	1	30	J3	J3

### Duplicate - Batch: 640-71115

Method: 353.2

Preparation: N/A

Lab Sample ID: 640-28772-A-1 DU  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/21/2010 1015  
Date Prepared: N/A

Analysis Batch: 640-71115  
Prep Batch: N/A  
Units: mg/L

Instrument ID: ASTORIA  
Lab File ID: NO2+NO3072110A1.txt  
Initial Weight/Volume: 25.0 mL  
Final Weight/Volume: 25.0 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Nitrate Nitrite as N	0.0047	U	0.0047	NC	30	U

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Method Blank - Batch: 640-70820

Lab Sample ID: MB 640-70820/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/13/2010 1443  
Date Prepared: 07/13/2010 0913

Analysis Batch: 640-70844  
Prep Batch: 640-70820  
Units: mg/L

### Method: 365.1

### Preparation: 365.2/365.3/365

Instrument ID: ASTORIA2  
Lab File ID: TP071310A.txt  
Initial Weight/Volume: 25.0 mL  
Final Weight/Volume: 25.0 mL

Analyte	Result	Qual	MDL	PQL
Phosphorus	0.0044	U	0.0044	0.010

### Lab Control Sample/

### Lab Control Sample Duplicate Recovery Report - Batch: 640-70820

### Method: 365.1

### Preparation: 365.2/365.3/365

LCS Lab Sample ID: LCS 640-70820/3-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/13/2010 1446  
Date Prepared: 07/13/2010 0913

Analysis Batch: 640-70844  
Prep Batch: 640-70820  
Units: mg/L

Instrument ID: ASTORIA2  
Lab File ID: TP071310A.txt  
Initial Weight/Volume: 25.0 mL  
Final Weight/Volume: 25.0 mL

LCSD Lab Sample ID: LCSD 640-70820/4-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/13/2010 1447  
Date Prepared: 07/13/2010 0913

Analysis Batch: 640-70844  
Prep Batch: 640-70820  
Units: mg/L

Instrument ID: ASTORIA2  
Lab File ID: TP071310A.txt  
Initial Weight/Volume: 25.0 mL  
Final Weight/Volume: 25.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Phosphorus	106	106	90 - 110	0	30		

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 640-70820

### Method: 365.1

### Preparation: 365.2/365.3/365

MS Lab Sample ID: 660-36167-1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/13/2010 1523  
Date Prepared: 07/13/2010 0913

Analysis Batch: 640-70844  
Prep Batch: 640-70820

Instrument ID: ASTORIA2  
Lab File ID: TP071310A.txt  
Initial Weight/Volume: 25.0 mL  
Final Weight/Volume: 25.0 mL

MSD Lab Sample ID: 660-36167-1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/13/2010 1525  
Date Prepared: 07/13/2010 0913

Analysis Batch: 640-70844  
Prep Batch: 640-70820

Instrument ID: ASTORIA2  
Lab File ID: TP071310A.txt  
Initial Weight/Volume: 25.0 mL  
Final Weight/Volume: 25.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Phosphorus	76	71	90 - 110	5	30	J3	J3

### Duplicate - Batch: 640-70820

### Method: 365.1

### Preparation: 365.2/365.3/365

Lab Sample ID: 640-28770-B-1-B DU  
Client Matrix: Water  
Dilution: 5.0  
Date Analyzed: 07/13/2010 1546  
Date Prepared: 07/13/2010 0913

Analysis Batch: 640-70844  
Prep Batch: 640-70820  
Units: mg/L

Instrument ID: ASTORIA2  
Lab File ID: TP071310A.txt  
Initial Weight/Volume: 25.0 mL  
Final Weight/Volume: 25.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Phosphorus	3.1	3.14	2	30	

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Method Blank - Batch: 680-175700

Method: 9060

Preparation: N/A

Lab Sample ID: MB 680-175700/1

Analysis Batch: 680-175700

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: 07/29/2010 0738

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

### Lab Control Sample - Batch: 680-175700

Method: 9060

Preparation: N/A

Lab Sample ID: LCS 680-175700/2

Analysis Batch: 680-175700

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: 07/29/2010 0738

Final Weight/Volume: 25 mL

Date Prepared: N/A

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dissolved Inorganic Carbon-Dissolved	20.0	19.8	99		



## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Method Blank - Batch: 660-97310

Method: SM 2320B

Preparation: N/A

Lab Sample ID: MB 660-97310/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/16/2010 1034  
Date Prepared: N/A

Analysis Batch: 660-97310  
Prep Batch: N/A  
Units: mg/L

Instrument ID: MANTECH  
Lab File ID: 7.16.10.txt  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	PQL	PQL
Alkalinity	1.0	U	1.0	1.0

### Lab Control Sample - Batch: 660-97310

Method: SM 2320B

Preparation: N/A

Lab Sample ID: LCS 660-97310/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/16/2010 1041  
Date Prepared: N/A

Analysis Batch: 660-97310  
Prep Batch: N/A  
Units: mg/L

Instrument ID: MANTECH  
Lab File ID: 7.16.10.txt  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	118	118	100	80 - 120	

### Duplicate - Batch: 660-97310

Method: SM 2320B

Preparation: N/A

Lab Sample ID: 660-36167-1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/16/2010 1053  
Date Prepared: N/A

Analysis Batch: 660-97310  
Prep Batch: N/A  
Units: mg/L

Instrument ID: MANTECH  
Lab File ID: 7.16.10.txt  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Alkalinity	150	153	4	30	
Carbonate Alkalinity as CaCO3	1.0 U	1.0	NC	30	U

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Method Blank - Batch: 660-97110

Method: SM 2540C

Preparation: N/A

Lab Sample ID: MB 660-97110/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/13/2010 0937  
Date Prepared: N/A

Analysis Batch: 660-97110  
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: 660-97110

Method: SM 2540C

Preparation: N/A

Lab Sample ID: LCS 660-97110/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/13/2010 0937  
Date Prepared: N/A

Analysis Batch: 660-97110  
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	10100	101	80 - 120	

### Duplicate - Batch: 660-97110

Method: SM 2540C

Preparation: N/A

Lab Sample ID: 660-36167-1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/13/2010 0939  
Date Prepared: N/A

Analysis Batch: 660-97110  
Prep Batch: N/A  
Units: mg/L

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1 mL  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	77000	79300	3	20	

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Method Blank - Batch: 680-175577

Method: SM 4500 NH3 G

Preparation: SM 4500 NH3 B

Lab Sample ID: MB 680-175577/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/28/2010 1645  
Date Prepared: 07/28/2010 1406

Analysis Batch: 680-175620  
Prep Batch: 680-175577  
Units: mg/L

Instrument ID: KONELAB1  
Lab File ID: KONE10728101NH3DIST.xls  
Initial Weight/Volume: 6 mL  
Final Weight/Volume: 6 mL

Analyte	Result	Qual	MDL	PQL
Ammonia	0.026	U	0.026	0.050

### Lab Control Sample - Batch: 680-175577

Method: SM 4500 NH3 G

Preparation: SM 4500 NH3 B

Lab Sample ID: LCS 680-175577/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/28/2010 1645  
Date Prepared: 07/28/2010 1406

Analysis Batch: 680-175620  
Prep Batch: 680-175577  
Units: mg/L

Instrument ID: KONELAB1  
Lab File ID: KONE10728101NH3DIST.xls  
Initial Weight/Volume: 6 mL  
Final Weight/Volume: 6 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia	1.00	0.924	92	90 - 110	

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 680-175577

Method: SM 4500 NH3 G

Preparation: SM 4500 NH3 B

MS Lab Sample ID: 660-36059-C-1-B MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/28/2010 1645  
Date Prepared: 07/28/2010 1406

Analysis Batch: 680-175620  
Prep Batch: 680-175577

Instrument ID: KONELAB1  
Lab File ID: KONE10728101NH3DIST.xls  
Initial Weight/Volume: 6 mL  
Final Weight/Volume: 6 mL

MSD Lab Sample ID: 660-36059-C-1-C MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/28/2010 1645  
Date Prepared: 07/28/2010 1406

Analysis Batch: 680-175620  
Prep Batch: 680-175577

Instrument ID: KONELAB1  
Lab File ID: KONE10728101NH3DIST.xls  
Initial Weight/Volume: 6 mL  
Final Weight/Volume: 6 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ammonia	97	95	90 - 110	1	30		

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

**Duplicate - Batch: 680-175577**

**Method: SM 4500 NH3 G**

**Preparation: SM 4500 NH3 B**

Lab Sample ID: 660-36118-B-4-B DU

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 07/28/2010 1655

Date Prepared: 07/28/2010 1406

Analysis Batch: 680-175620

Prep Batch: 680-175577

Units: mg/L

Instrument ID: KONELAB1

Lab File ID: KONE10728101NH3DIST.xls

Initial Weight/Volume: 6 mL

Final Weight/Volume: 6 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Ammonia	0.22	0.187	14	30	

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Method Blank - Batch: 640-70808

Method: SM 4500 P E

Preparation: N/A

Lab Sample ID: MB 640-70808/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/10/2010 2022  
Date Prepared: N/A

Analysis Batch: 640-70808  
Prep Batch: N/A  
Units: mg/L

Instrument ID: ASTORIA2  
Lab File ID: OP071010D.txt  
Initial Weight/Volume: 25 mL  
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	PQL
ortho-Phosphate-Dissolved	0.0014	U	0.0014	0.050

### Lab Control Sample/

### Lab Control Sample Duplicate Recovery Report - Batch: 640-70808

Method: SM 4500 P E

Preparation: N/A

LCS Lab Sample ID: LCS 640-70808/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/10/2010 2025  
Date Prepared: N/A

Analysis Batch: 640-70808  
Prep Batch: N/A  
Units: mg/L

Instrument ID: ASTORIA2  
Lab File ID: OP071010D.txt  
Initial Weight/Volume: 25 mL  
Final Weight/Volume: 25 mL

LCSD Lab Sample ID: LCSD 640-70808/4  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/10/2010 2026  
Date Prepared: N/A

Analysis Batch: 640-70808  
Prep Batch: N/A  
Units: mg/L

Instrument ID: ASTORIA2  
Lab File ID: OP071010D.txt  
Initial Weight/Volume: 25 mL  
Final Weight/Volume: 25 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
ortho-Phosphate-Dissolved	104	106	90 - 110	2	30	I	I

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 640-70808

Method: SM 4500 P E

Preparation: N/A

MS Lab Sample ID: 660-36168-A-2 MS  
Client Matrix: Water  
Dilution: 5.0  
Date Analyzed: 07/10/2010 2033  
Date Prepared: N/A

Analysis Batch: 640-70808  
Prep Batch: N/A

Instrument ID: ASTORIA2  
Lab File ID: OP071010D.txt  
Initial Weight/Volume: 25 mL  
Final Weight/Volume: 25 mL

MSD Lab Sample ID: 660-36168-A-2 MSD  
Client Matrix: Water  
Dilution: 5.0  
Date Analyzed: 07/10/2010 2034  
Date Prepared: N/A

Analysis Batch: 640-70808  
Prep Batch: N/A

Instrument ID: ASTORIA2  
Lab File ID: OP071010D.txt  
Initial Weight/Volume: 25 mL  
Final Weight/Volume: 25 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
ortho-Phosphate-Dissolved	80	52	90 - 110	5	30	J3	J3

### Duplicate - Batch: 640-70808

Method: SM 4500 P E

Preparation: N/A

Lab Sample ID: 660-36168-A-2 DU  
Client Matrix: Water  
Dilution: 5.0  
Date Analyzed: 07/10/2010 2031  
Date Prepared: N/A

Analysis Batch: 640-70808  
Prep Batch: N/A  
Units: mg/L

Instrument ID: ASTORIA2  
Lab File ID: OP071010D.txt  
Initial Weight/Volume: 25 mL  
Final Weight/Volume: 25 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
ortho-Phosphate-Dissolved	0.44	0.434	1.00	30	

## Quality Control Results

Client: Florida Power & Light Company

Job Number: 660-36167-1

Sdg Number: 36167

### Method Blank - Batch: 660-97096

Method: SM 4500 S2 F

Preparation: N/A

Lab Sample ID: MB 660-97096/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/12/2010 1400  
Date Prepared: N/A

Analysis Batch: 660-97096  
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 - Batch: 660-97096

Method: SM 4500 S2 F

Preparation: N/A

Lab Sample ID: LCS 660-97096/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/12/2010 1400  
Date Prepared: N/A

Analysis Batch: 660-97096  
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	Spike Amount	Result	% Rec.	Limit	Qual
Sulfide	20.0	18.7	94	75 - 125	

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 660-97096

Method: SM 4500 S2 F

Preparation: N/A

MS Lab Sample ID: 660-36168-E-1 MS  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/12/2010 1400  
Date Prepared: N/A

Analysis Batch: 660-97096  
Prep Batch: N/A

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

MSD Lab Sample ID: 660-36168-E-1 MSD  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/12/2010 1400  
Date Prepared: N/A

Analysis Batch: 660-97096  
Prep Batch: N/A

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	MS Qual	MSD Qual
	MS	MSD					
Sulfide	97	94	75 - 125	2	25		

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

660-3467 TestAmerica

# THE HISTORY OF THE

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lampa, FL 33634  
Phone (813) 885-7427 Fax (813) 885-7049

6400-34167 TestAmerica

Received 15 October 1993; accepted 15 November 1993

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## Chain of Custody Record

# TestAmerica

2016年12月29日 星期四 第10000号

[illegible]

## Form FD 9000-7: Field Parameter Data Sheet for Surface Water

SURVEY/PROJECT:

SW/GW Monitoring Project

SAMPLERS/ORGANIZATION:

USCA Labs  
Stephen Hoagler

METER MODEL#

YSI 556 MFS

METER SERIAL# 10D01277

pump # =

Station#	Date	Time	Total Depth	Sample Depth	Water Temp	DO	DO	Cond	Salinity	pH	Turbidity	Comments
	Yr/mo/d	Hr:min	Ft.	Ft.	Deg C	Mg/L	% Sat	nds/cm	ppt	S.U.	NTU	
070910-TRMCCS-5B	10/07/09	11:10	#15	14	32.04	1.91	35.1	76.38		8.14	4.60	0.28 = 106.8
070910-TRMCCS-5T	10/07/09	11:42	15	1	33.22	2.05	38.2	76.42		8.15	3.45	0.28 = 108.5
070910-TRMCCS-1B	10/07/09	10:20	4	3	39.04	4.55	91.4	76.51		8.2	3.5	0.28 = 260.3
071510-TRMCCS-6B	10/07/09	10:50	21	20	32.91	4.77	87.4	74.96		8.19	4.25	0.28 = 179.9
071510-TRMCCS-6T	10/07/09	11:30	21	1	32.78	4.73	86.7	75.29		8.18	3.56	0.28 = 153.7
					</							

NOTES:

Pump # 1316  
P# 1322

## Login Sample Receipt Check List

Client: Florida Power & Light Company

Job Number: 660-36167-1

SDG Number: 36167

Login Number: 36167

List Source: TestAmerica Tampa

Creator: Volz, Charles

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	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,2.5 Degrees C. CU-07
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.	False	070910SWCCS-1B, DIC Bottle Received Broken.
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.	False	
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.	False	split off for DIC for sample 070910SWCCS-1B from other un-p bottle

## Login Sample Receipt Check List

Client: Florida Power & Light Company

Job Number: 660-36167-1

SDG Number: 36167

Login Number: 36167

List Source: TestAmerica Savannah

Creator: Conner, Keaton

List Creation: 07/13/10 08:55 AM

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	
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?	False	
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	

## Login Sample Receipt Check List

Client: Florida Power & Light Company

Job Number: 660-36167-1

SDG Number: 36167

Login Number: 36167

List Source: TestAmerica Tallahassee

Creator: Snead, Joshua

List Creation: 07/12/10 09:16 AM

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	
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	

## Login Sample Receipt Check List

Client: Florida Power & Light Company

Job Number: 660-36167-1

SDG Number: 36167

Login Number: 36167

List Source: TestAmerica Tallahassee

Creator: Snead, Joshua

List Creation: 07/13/10 08:44 AM

List Number: 2

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	