

Table 1
Ammonia in Surface Water Sampling Locations
Florida Power and Light
Turkey Point Plant

Count	Name	Type	Location	Proposed By:	Latitude	Longitude	Sampling at	Tritium Sampled?	Coliform*	Water Sampling	PW Sampling*	Sediment	Profiling?	DERM Split-Sampling?	Sample Date
1	FTF-SW	GW	Northern CCS	DERM	25.436864	-80.32961	No	Yes	Yes	1	NA	NA	No	No	1/4/2017
2	FTF-NW	GW	Northern CCS	DERM	25.43762	-80.329833	No	Yes	Yes	1	NA	NA	No	No	1/4/2017
3	FTF-SE	GW	Northern CCS	DERM	25.437971	-80.328087	No	Yes	Yes	1	NA	NA	No	No	1/4/2017
4	MW-3	GW	Northern CCS	DERM	25.436191	-80.327054	No	Yes	Yes	1	NA	NA	No	Yes; 1 depth only	1/6/2017
5	MW-4	GW	Northern CCS	DERM	25.434479	-80.326918	No	Yes	Yes	1	NA	NA	No	No	1/4/2017
6	MW-5	GW	Northern CCS	DERM	25.439292	-80.328971	No	Yes	Yes	1	NA	NA	No	Yes; 1 depth only	1/6/2017
7	North MW	GW	Northern CCS	DERM	25.433286	-80.333212	No	No	Yes	1	No	No	No	Yes; 1 depth only	1/6/2017
8	South MW	GW	Northern CCS	DERM	25.432532	-80.332335	No	No	Yes	1	No	No	No	Yes; 1 depth only	1/6/2017
9	C6-5	GW	Turtle Pt. and Vicinity	DERM	25.424187	-80.331874	No	No	Yes	1	No	No	No	Yes; 1 depth only	1/5/2017
1	TPBBSW-6	SW_BB	Northern CCS	FPL	25.4386	-80.3266	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	1/3/2017
2	TPBBSW-10	SW_BB	Northern CCS	FPL	25.44093	-80.32506	Yes	Yes (high/low tide)	Yes	1	Yes (low tide)	Yes	No	No	1/4/2017
3	TPBBBSW-PTB1	SW_BB	Northern CCS	FPL	25.43812	-80.32559	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	1/4/17 high, 1/5/17 low
4	TPBBSW-4	SW_BB	Southern CCS	FPL	25.34457	-80.32853	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	
5	TPBBSW-14	SW_BB	Southern CCS	FPL	25.35436	-80.32584	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	
6	TPBBSW-7Tt	SW_BB	Turtle Pt. and Vicinity	FPL	25.41989	-80.32541	Yes	Yes (high/low tide)	Yes	1	Yes (low tide)	Yes	No	No	1/6/2017 low tide
1	POUF	SW_CCS	Northern CCS	DERM	25.43373	-80.33446	No	No	Yes	3	No	No	No	Yes; T and B only	
2	CNMI	SW_CCS	Northern CCS/Turtle Pt.	DERM	25.43023	-80.33073	No	No	Yes	3	No	No	No	Yes; T and B only	
3	TPSWCCS-1	SW_CCS	Northern CCS	FPL	25.4322222	-80.35022	No	No	Yes	1	No	No	No	Yes; 1 depth only	1/5/2017
4	TPSWCCS-2	SW_CCS	Central CCS	FPL	25.3941667	-80.35186	No	No	Yes	1	No	No	No	Yes; 1 depth only	
5	TPSWCCS-3	SW_CCS	Southern CCS	FPL	25.3645278	-80.36704	No	No	Yes	1	No	No	No	Yes; 1 depth only	
6	TPSWCCS-4	SW_CCS	Southern CCS	FPL	25.3570778	-80.33979	No	No	Yes	3	No	No	No	Yes; T and B only	
7	TPSWCCS-5	SW_CCS	Central CCS	FPL	25.3884444	-80.33178	No	No	Yes	3	No	No	No	Yes; T and B only	
8	TPSWCCS-6	SW_CCS	Northern CCS	FPL	25.4322778	-80.32783	No	No	Yes	3	No	No	No	Yes; T and B only	
9	TPSWCCS-7	SW_CCS	Central CCS	FPL	25.4022472	-80.36094	No	No	Yes	1	No	No	No	Yes; 1 depth only	
10	MI-TCN	SW_CCS	Turtle Pt. and Vicinity	DERM	25.42718	-80.33096	No	No	Yes	3	No	No	No	Yes; 1 depth only	
11	MI-TCS	SW_CCS	Turtle Pt. and Vicinity	DERM	25.42303	-80.33026	No	No	Yes	3	No	No	No	Yes; 1 depth only	
12	GCB	SW_CCS	Turtle Pt. and Vicinity	DERM	25.42022	-80.33709	No	No	Yes	3	No	No	No	Yes; T and B only	
1	TPSWC-7	SW_DEC_C	Southern CCS	DERM	25.35143	-80.34248	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	
2	TPSWC-8	SW_DEC_C	Southern CCS	DERM	25.35187	-80.34368	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	
3	TPBBCSC-B	SW_DEC_CSC	Southern CCS	FPL	25.35619	-80.33844	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	
4	TPBBCSC-MID	SW_DEC_CSC	Southern CCS	FPL	25.35063	-80.33854	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	
5	TPBBCSC-M	SW_DEC_CSC	Southern CCS	FPL	25.34617	-80.33151	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	
6	S20Get-Mid	SW_DEC_S20	Southern CCS	DERM	25.36719	-80.37250	No	Yes	Yes	3	No	No	No	Yes; T and B only	
7	S20Get-CCS	SW_DEC_S20	Southern CCS	DERM	25.36713	-80.36827	No	Yes	Yes	3	No	No	No	Yes; T and B only	
8	S20-Weir-Up	SW_DEC_S20	Southern CCS	DERM	25.35652	-80.35426	No	Yes	Yes	3	No	No	No	Yes; T and B only	
9	S20-Weir-Dwn	SW_DEC_S20	Southern CCS	DERM	25.356485	-80.353959	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	1/18/2017
10	TPBBS20-B	SW_DEC_S20	Southern CCS	FPL	25.35223	-80.3477	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	
11	TPBBS20-MID	SW_DEC_S20	Southern CCS	FPL	25.34799	-80.33838	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	
12	TPBBS20-M	SW_DEC_S20	Southern CCS	FPL	25.3455	-80.3328	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	
13	SDC-SWCCS	SW_DEC_SDC	Southern CCS	DERM	25.35223	-80.36777	No	Yes	Yes	3	No	No	No	Yes; T and B only	
14	SDC-East	SW_DEC_SDC	Southern CCS	DERM	25.35219	-80.34861	No	Yes	Yes	3	No	No	No	No	
15	TPBBSW-8	SW_DEC_TB	Northern CCS	FPL	25.43662	-80.32891	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	1/4/2017
16	TPBBBSW-PTB2	SW_DEC_TB	Northern CCS	FPL	25.43732	-80.32772	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	1/5/17 low and high
17	TPBBBSW-PTB3	SW_DEC_TB	Northern CCS	DERM	25.43641	-80.32921	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	1/5/17 low and high
18	TPBBSW-7B	SW_DEC_TPC	Turtle Pt. and Vicinity	FPL	25.41947	-80.32833	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	1/6/2017 low tide
19	TPBBSW-7M	SW_DEC_TPC	Turtle Pt. and Vicinity	FPL	25.41974	-80.32747	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	1/6/2017 low tide
20	TPBBSW-7T	SW_DEC_TPC	Turtle Pt. and Vicinity	FPL	25.4198	-80.32645	Yes	Yes (high/low tide)	Yes	3	Yes (low tide)	Yes	No	No	

Sample Stations	Count
GW= Groundwater	9
SW_BB = Surface Water Biscayne Bay	6
SW_CCS = Surface Water Cooling Canal System	12
SW_DEC_C = Surface Water_Dead End Canal_Crocodile Sanctuary	2
SW_DEC_CSC = Surface Water_Dead End Canal_Card Sound Canal	3
SW_DEC_S20 = Surface Water_Dead End Canal_S20 Canal	9
SW_DEC_SDC = Surface Water_Dead End Canal_Sea-Dade Canal	2
SW_DEC_TB = Surface Water_Dead End Canal_Turning Basin	3
SW_DEC_TPC = Surface Water_Dead End Canal_Turtle Point Canal	3
Porewater Sample Location	10

Table 2

**Site Assessment Plan Parameter List
Ammonia in Surface Waters
Florida Power and Light
Turkey Point Power Plant**

Parameter/Analyte	Procedure
Dissolved Oxygen	Field Measurement
pH	Field Measurement
Temperature	Field Measurement
Salinity	Field Measurement
Conductivity	Field Measurement
Turbidity	Field Measurement
Depth of Sample	Field Measurement
Water Level (MWs)	Field Measurement
Chlorophyll a	Laboratory (surface water only)
Total Organic Carbon	Laboratory
Total Organic Nitrogen	Laboratory
Total Nitrogen	Laboratory
Nitrite+Nitrate N	Laboratory
Kjeldahl N - total	Laboratory
Coliform (total), number per 100 mL	Laboratory (low tide only)
Coliform (total), in presence of chlorine, number per 100 mL	Laboratory(low tide only)
Total Phosphorus, as PO ₄ P	Laboratory
Orthophosphate	Laboratory
Carbon Dioxide	Field Measurement
Sulfide	Laboratory
Total Ammonia, as N	Laboratory
Un-ionized Ammonia (NH ₃ -N)	Laboratory
Ionized Ammonia, as N (NH ₄ ⁺)	Laboratory

TABLE 3
Groundwater Analytical Results
Florida Power and Light
Turkey Point Plant

	SDG	78177		78177		78177		78227		78177		78227		78227		78227		78205	
	Sample Type:	GW		GW		GW		GW		GW		GW		GW		GW		GW	
	Site:	FTF-SW		FTF-NW		FTF-SE		MW-3		MW-4		MW-5		North MW		South MW		C6-5E	
Parameter	Units																		
Nitrogen, Kjeldahl	mg/L	2.14		2.34		0.86		0.95		0.55		0.84		1.87		10.70		2.48	
Nitrate Nitrite as N	mg/L	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
Phosphorus as P	mg/L	0.053		0.191		0.062		0.035	J3	0.034		0.064	J3	0.010	<i>J</i>	0.209		0.051	<i>J</i>
Sulfide	mg/L	24.30		29.60		4.07		6.00		0.18		12.20		0.04	I	0.08	I	3.56	I
Orthophosphate, Dissolved	mg/L	0.050	J3	0.034	J3	0.055	J3	0.031		0.033	J3	0.064		0.020	<i>J</i>	0.185		0.070	<i>J</i>
Total Organic Carbon	mg/L	5.42		4.94		6.87		5.04		4.73		5.80		3.93		2.73		9.89	
Coliform-Total	CFU/100 ml	800	B	200	<i>B J</i>	47		1	U	1	U	1	U	10	<i>J</i>	800	<i>B J</i>	1	U
Coliform (total), in chlorine	CFU/100 ml	900	B	500	<i>B J</i>	70		1	U	1	U	1	U	4	<i>J</i>	1,900	<i>B J</i>	1	U
Chlorophyll a	mg/m3	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Field pH	SU	6.90		6.90		6.92		6.78		6.72		6.67		7.07		6.98		6.85	
Field Temperature	Degrees C	26.50		26.40		26.60		26.50		26.80		26.40		31.10		30.10		27.9	
Specific Conductance	umhos/cm	17,302		19,175		18,013		45,542		50,766		46,373		768		1,421		75,499	
Oxygen, Dissolved	mg/L	0.22		0.37		0.36		0.19		0.29		0.14		0.38		0.32		0.34	
Turbidity	NTU	1.79		4.1		1.24		0.67		1.26		0.45		8.47		7.26		3.04	
Salinity	SU	10.17		11.38		10.63		29.45		33.29		30.24		0.36		0.71		52.2	
Depth	ft	14.0		15.5		15.1		22.0		50.0		26.2		14.0		23.0		90.6	
Sample Depth	ft	4.8		6.4		4.3		7.0		7.4		4.2		3.9		14.3		4.6	
Carbon dioxide	mg/L	50		60		40		45		45		75		50		40		40	
Nitrogen, Organic	mg/L	0.2	U	0.2	U	0.2	U	0.78		0.348		0.2	U	0.2	U	6.1		0.20	U
Ammonia as N, Dissolved	mg/L	2.11		2.32		0.692		0.174		0.206		0.654		1.77		4.6		2.48	
Nitrogen, Total	mg/L	2.14		2.34		0.86		0.95		0.55		0.84		1.87		10.70		2.48	
Ammonium ion	mg/L	2.70		2.97		0.89		0.22		0.26		0.84		2.25		5.87		3.17	
Unionized Ammonia	mg/L	0.013		0.014		0.004		0.001		0.001		0.002		0.022		0.043		0.015	

TestAmerica Qualifiers

- U Results not detected at the MDL
- I Results detected between the MDL and RL
- J3 Results estimated
- Q Outside of holding time

Florida Spectrum Qualifiers

- B Results based upon colony counts outside the acceptable range

E&E Qualifiers (in italics)

- J* Results estimated

TABLE 4
Surfacewater Biscayne Bay Analytical Results
Florida Power and Light
Turkey Point Plant

Parameter	SDG	78154				78154				78154				78177				78177		78205	
	Sample Type:	SW				SW				SW				SW				SW			
	Site:	TPBBSW-6S				TPBBSW-6M				TPBBSW-6B				TPBBSW-10				TPBBSW-PTB1B			
Units	H		L		H		L		H		L		H		L		H		L		
Nitrogen, Kjeldahl	mg/L	0.39	I	0.34	U	0.20	U	0.20	U	0.60		0.44		0.20	U	0.20	U	0.22		0.21	I
Nitrate Nitrite as N	mg/L	0.025	U	0.026	I	0.032	I	0.033	I	0.025	I	0.031	I	0.025	U	0.025	U	0.025		0.025	U
Phosphorus as P	mg/L	0.005	I J3	0.005	I J3	0.005	I J3	0.007	I J3	0.014	J3	0.013	J3	0.006	I	0.013		0.005		0.006	I
Sulfide	mg/L	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04		0.04	U
Orthophosphate, Dissolved	mg/L	0.002	U	0.002	U	0.002	I	0.002	U	0.002	U	0.003	I	0.002	U	0.002	U J3	0.002		0.002	U
Total Organic Carbon	mg/L	3.35		3.48		2.86		2.83		2.91		2.98		3.64		3.48		3.42		3.67	
Coliform-Total	CFU/100 ml	10,000	B	13,200		5,400		5,700		4,700		2,100		2,600		2,800		2,600		2,400	
Coliform (total), in chlorine	CFU/100 ml	13,000	B	14,400		6,600		7,300		4,800		2,300		2,500		2,900		2,300		1,900	B
Chlorophyll a	mg/m3	1		1		1		1		3		2		1		1		1		1	
Field pH	SU	8.20		8.14		8.08		8.15		7.96		8.02		8.04		8.08		8.19		8.02	
Field Temperature	Degrees C	25.18		24.02		23.19		22.85		22.96		22.74		24.77		24.10		24.87		23.33	
Specific Conductance	umhos/cm	42000		41,900		46,400		46,400		46,900		46,800		42,300		46,200		43,400		43,600	
Oxygen, Dissolved	mg/L	5.68		6.24		6.26		6.07		4.86		4.80		5.97		4.86		5.92		4.42	
Turbidity	NTU	0.80		0.93		2.19		2.93		3.36		2.41		1.3		3.95		1.18		1.01	
Salinity	SU	26.87		26.68		30.02		30.07		30.37		30.29		28.28		29.91		28.14		28.01	
Depth	ft	14.1		12.1		14.1		12.1		14.1		12.1		5.9		4.2		4.2		3.2	
Sample Depth	ft	1.0		1.0		6.5		5.9		13.1		11.1		2.9		2.6		1.9		2.2	
Carbon dioxide	mg/L	21		20		28.5		32		24		28		30.5		15		37.5		32.5	
Nitrogen, Organic	mg/L	0.326		0.282	U	0.200	U	0.200	U	0.462		0.288		0.200	U	0.200	U	0.200		0.200	U
Ammonia as N, Dissolved	mg/L	0.0684		0.0565		0.0810		0.0599		0.138		0.156		0.0445	I	0.0558		0.0694		0.0454	I
Nitrogen, Total	mg/L	0.39		0.36	U	0.20	U	0.20	U	0.63		0.48		0.23	U	0.23	U	0.22		0.21	I
Ammonium ion	mg/L	0.08		0.07		0.10		0.07		0.17		0.19		0.05		0.07		0.08		0.06	
Unionized Ammonia	mg/L	0.007		0.005		0.006		0.005		0.007		0.011		0.003		0.004		0.007		0.003	

TABLE 4
Surfacewater Biscayne Bay Analytical Results
Florida Power and Light
Turkey Point Plant

Parameter	78332		78368		78332		78368		78332		78368		78332		78395		78332		78395		78332		78395		78245		78227					
	SW				SW				SW				SW				SW		SW				SW									
	TPBBSW-4-S				TPBBSW-4-M				TPBBSW-4-B				TPBBSW-14-S				TPBBSW-14-M				TPBBSW-14-B				TPBBSW-7Tt-B							
	H	L	H	L	H	L	H	L	H	L	H	L	H	L	H	L	H	L	H	L	H	L	H	L	H	L	H	L				
Nitrogen, Kjeldahl	0.20	U	0.20	U	0.29	I	0.20	U	0.20	U	0.22	I	0.20	U	0.24	I	0.20	U	0.20	U	0.20	U	0.33	I	0.20	U	0.26	I	0.24	I		
Nitrate Nitrite as N	0.025	U	0.005	U	0.025	U	0.005	U	0.025	U	0.005	U	0.025	U	0.005	U	0.025	U	0.005	U	0.025	U	0.005	U	0.025	U	0.005	U	0.025	U	0.025	U
Phosphorus as P	0.012	J3	0.003	U J3	0.026	J3	0.003	U J3	0.004	I J3	0.003	U J3	0.003	U J3	0.003	U	0.003	U J3	0.003	U	0.003	I J3	0.003	U	0.020	J3	0.008	I J3				
Sulfide	0.04	U	0.05	I	0.13		0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
Orthophosphate, Dissolved	0.002	U	0.002	U J3	0.006	I Q	0.003	I J3	0.002	U	0.002	U J3	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Total Organic Carbon	5.00	U	5.00	U	2.68		5.00	U	5.00	U	5.00	U	5.00	U	5.00	U	2.73		5.00	U	5.00	U	5.00	U	3.27		3.47					
Coliform-Total	NA		700	B	NA		300	B	NA		500	B	NA		900	B	NA		400	B	NA		900	B J	NA		500	B				
Coliform (total), in chlorine	NA		400	B	NA		300	B	NA		500	B	NA		600	B	NA		400	B	NA		200	B J	NA		300	B				
Chlorophyll a	0.5		0.5		6.7		0.5		0.5		0.8		0.5		0.5		0.5		0.5		0.5		1.9		0.53		1.3	Q-01				
Field pH	8.13		8.12		8.09		8.12		8.12		8.13		8.16		8.17		8.16		8.16		8.18		8.17		8.17		8.12					
Field Temperature	19.20		20.88		19.17		20.89		19.37		20.89		19.10		21.59		19.05		21.49		19.09		21.56		17.0		24.0					
Specific Conductance	49,500		50,100		48,900		50,100		50,700		51,100		48,400		50,000		47,700		49,900		48,400		49,900		44,300		44,700					
Oxygen, Dissolved	7.07		6.35		7.07		7.01		6.70		6.42		6.77		6.79		6.99		6.61		6.80		6.69		6.45		7.10					
Turbidity	3		1.04		2.08		0.81		1		1.16		2.49		1.15		2.27		1.54		1.94		4.27		2.47		0.82					
Salinity	32.1		32.6		31.6		32.6		33.0		32.6		31.3		32.5		30.8		32.5		31.3		32.6		28.2		28.8					
Depth	9.8		9.8		9.8		9.8		9.8		9.8		7.8		7.2		7.8		7.2		7.8		7.2		4.9		3.2					
Sample Depth	1		1		4.9		4.4		8.8		8.8		1		1		3.9		3.6		6.8		6.2		3.9		2.2					
Carbon dioxide	12.5		12.5		14		14		14		18		9		16		10		18		18		13		13		15.5					
Nitrogen, Organic	0.20	U	0.20	U	0.26		0.20	U	0.20	U	0.22		0.20	U	0.24		0.20	U	0.20	U	0.26		0.20	U	3.27		0.20	U				
Ammonia as N, Dissolved	0.03	I	0.03	U	0.03	I	0.03	U	0.03	U	0.03	U	0.03	I	0.03	U	0.03	I	0.03	U	0.06		0.03	U	0.06		0.04	I				
Nitrogen, Total	0.23		0.23		0.29		0.23		0.23		0.22		0.23		0.24		0.23		0.20		0.33		0.20		0.26		0.24					
Ammonium ion	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.0500	U	0.05	U	0.0500	U	0.08		0.0500	U	0.07		0.05					
Unionized Ammonia	0.000	U	0.000	U	0.002		0.000	U	0.000	U	0.000	U	0.000	U	0	U	0.00		0	U	0.00		0	U	0.003		0.003					

TestAmerica Qualifiers

- U Results not detected at the MDL
- I Results detected between the MDL and RL
- J3 Results estimated
- Q Outside of holding time

Florida Spectrum Qualifiers

- B Results based upon colony counts outside the acceptable range

E&E Qualifiers (in italics)

- J* Results estimated

TABLE 5
Surfacewater Deadend Canals Analytical Results
Florida Power and Light
Turkey Point Plant

Parameter	SDG	78265		78245		78265		78245		78265		78245		78265		78245	
	Sample Type:	SW				SW				SW				SW			
	Site:	TPSWC-7-S				TPSWC-7-M				TPSWC-7-B				TPSWC-8-S			
	Units	H		L		H		L		H		L		H		L	
Nitrogen, Kjeldahl	mg/L	0.48		0.24	I	0.38	I	0.20	U	7.96		4.60		0.20	U	0.26	I
Nitrate Nitrite as N	mg/L	0.009	I	0.025	U	0.007	I	0.025	U	0.0250	U	0.025	U	0.010	I	0.025	U
Phosphorus as P	mg/L	0.039		0.003	U J3	0.006	I	0.003	U J3	0.565	J3	0.250	J3	0.006	I	0.003	U J3
Sulfide	mg/L	0.04	U	0.04	U	0.04	U	0.34		73.5		37.50		0.04	U	0.07	I
Orthophosphate, Dissolved	mg/L	0.002	U	0.002	U J3	0.002	U	0.002	U J3	0.792		0.106	J3	0.002	U	0.002	U J3
Total Organic Carbon	mg/L	2.90		2.75		3.04		2.95		12.8		12.30		2.90		3.09	
Coliform-Total	CFU/100 ml	NA		2,000		NA		2,500				1	J	NA		2,000	J
Coliform (total), in chlorine	CFU/100 ml	NA		1,700	B	NA		4,600				6	J	NA		26	J
Chlorophyll a	mg/m3	0.5		0.5		0.5		1.9		15		49.0		0.5		2.7	
Field pH	SU	7.90		8.00		7.49		7.72		6.45		6.51		7.87		7.71	
Field Temperature	Degrees C	18.76		19.10		18.73		18.78		26.05		25.64		18.85		19.20	
Specific Conductance	umhos/cm	51,600		51,500		51,000		51,000		61,100		59,900		50,900		51,500	
Oxygen, Dissolved	mg/L	4.85		6.21		5.51		5.16		0.10		0.07		4.67		3.56	
Turbidity	NTU	3.21		3.71		3.78		4.07		10.9		63.80		3.86		5.80	
Salinity	SU	33.6		33.5		33.1		33.1		41.09		40.0		33.1		33.5	
Depth	ft	18.3		18.7		18.3		18.7		18.3		18.7		25.2		24.2	
Sample Depth	ft	1		1		9.1		9.1		17.3		17.7		1		1	
Carbon dioxide	mg/L	36.5		13.5		16		20		100		100		14		23	
Nitrogen, Organic	mg/L	0.43		0.20	U	0.33		0.20	U	0.410		1.20		0.20	U	0.20	U
Ammonia as N, Dissolved	mg/L	0.06		0.06		0.05		0.10		7.55		3.40		0.07		0.20	
Nitrogen, Total	mg/L	0.49		0.24		0.39		0.23	U	7.96		4.60		0.20		0.26	
Ammonium ion	mg/L	0.07		0.07		0.07		0.13		9.69		4.36		0.09		0.25	
Unionized Ammonia	mg/L	0.002		0.002		0.001		0.002		0.0158		0.008		0.002		0.005	

TABLE 5
Surfacewater Deadend Canals Analytical Results
Florida Power and Light
Turkey Point Plant

Parameter	78265		78245		78265		78245		78317		78368		78317		78368		78317		78368	
	SW				SW				SW				SW				SW			
	TPSWC-8-M				TPSWC-8-B				TPBBCSC-B-S				TPBBCSC-B-M				TPBBCSC-B-B			
	H		L		H		L		H		L		H		L		H		L	
Nitrogen, Kjeldahl	0.55		0.31	I	9.16		9.66		0.39	I	0.30	I	0.34	I	0.24	I	2.63		1.37	
Nitrate Nitrite as N	0.008	I	0.025	U	0.025	U	0.025	U	0.025	U	0.013		0.025	U	0.009	I	0.025	U	0.025	U
Phosphorus as P	0.045	J3	0.003	U J3	1.870	J3	0.615	J3	0.009	I	0.009	I	0.006	I	0.013		0.066		0.122	
Sulfide	0.05	I	0.93		102.00		55.80		0.04	U	0.04	U	0.04	U	0.04	U	4.61	I	7.56	I
Orthophosphate, Dissolved	0.002	U	0.002	U J3	0.792		0.603		0.002	U	0.002	U J3	0.002	U	0.002	U J3	0.029		0.040	J3
Total Organic Carbon	3.03		3.26		14.10		14.50		5.10	I	5.16	I	5.00	U	5.00	U	6.17	I	6.15	I
Coliform-Total	NA		20		NA		3	J	NA		1,100	B J	NA		600	B	NA		900	B
Coliform (total), in chlorine	NA		16		NA		1	U J	NA		2,400	J	NA		500	B	NA		700	B
Chlorophyll a	2.4		4.3		24.0		19.0		0.8		0.5		1.1		0.5		9.1		27.0	
Field pH	7.67		7.67		6.48		6.43		7.89		7.85		7.62		7.84		7.17		7.06	
Field Temperature	18.75		18.58		26.19		26.37		18.90		20.97		19.55		20.75		21.09		21.80	
Specific Conductance	51,000		51,000		62,400		62,300		49,600		48,100		50,200		48,600		54,000		53,500	
Oxygen, Dissolved	3.16		4.53		0.10		0.13		5.75		5.23		5.60		5.34		0.35		0.10	
Turbidity	6.80		7.87		8.48		42.20		2.05		0.39		1.94		0.80		27.50		14.90	
Salinity	33.1		33.1		42.1		42.0		32.1		31.2		32.6		31.5		35.5		35.1	
Depth	25.2		24.2		25.2		24.2		20		19.6		20		19.6		20		19.6	
Sample Depth	12.4		12.1		24.2		23.2		1		1		9.8		9.8		19		18.7	
Carbon dioxide	25		30		100		100		14.5		21.5		18		19		26		31	
Nitrogen, Organic	0.41		0.20	U	1.13		1.59		0.31		0.25		0.26		0.20	U	1.72		0.41	
Ammonia as N, Dissolved	0.15		0.23		8.03		8.07		0.08		0.05	I	0.09		0.05		0.91		0.96	
Nitrogen, Total	0.56		0.31		9.16		9.66		0.39		0.32		0.34		0.25		2.63		1.37	
Ammonium ion	0.19		0.29		10.30		10.40		0.104		0.06		0.112		0.06		1.16		1.23	
Unionized Ammonia	0.003		0.005		0.018		0.017		0.00279		0.002		0.00170		0.002		0.00698		0.006	

TABLE 5
Surfacewater Deadend Canals Analytical Results
Florida Power and Light
Turkey Point Plant

Parameter	78317		78368		78317		78368		78317		78368		78317		78368		78317		78368	
	SW				SW				SW				SW				SW			
	TPBBCSC-Mid-S				TPBBCSC-Mid-M				TPBBCSC-Mid-B				TPBBCSC-M-S				TPBBCSC-M-M			
	H		L		H		L		H		L		H		L		H		L	
Nitrogen, Kjeldahl	0.26	I	0.30	I	0.25	I	0.30	I	0.96	J	1.71		0.28	I	0.27	I	0.20	U	0.25	I
Nitrate Nitrite as N	0.025	U	0.011		0.025	U	0.006	I	0.025	U	0.025	U	0.025	U	0.005	U	0.025	U	0.005	U
Phosphorus as P	0.011	J3	0.006	I	0.004	I J3	0.009	I	0.143		0.107		0.008	I	0.007	I	0.008	I J3	0.004	I J3
Sulfide	0.04	U	0.04	U	0.04	U	0.04	U	9.50	I	8.81	I	0.04	U	0.04	U	0.04	U	0.04	U
Orthophosphate, Dissolved	0.002	U	0.002	U J3	0.002	U	0.002	U J3	0.102		0.021	J3	0.002	U	0.002	U J3	0.002	U	0.002	U J3
Total Organic Carbon	5.00	U	5.07	I	5.00	U	5.00	U	7.18	I	5.50	I	5.00	U	6.26	I	5.00	U	5.00	U
Coliform-Total	NA		1,200	B	NA		1,100	B	NA		1,100	B	NA		4,300		NA		3,400	
Coliform (total), in chlorine	NA		1,300	B	NA		2,100		NA		2,000		NA		2,400		NA		3,300	
Chlorophyll a	0.8		0.8		1.9		0.8		18.0		28.0		0.8		0.5		1.3		0.5	
Field pH	8.03		7.88		7.77		7.84		6.92		6.92		8.17		7.93		8.04		7.91	
Field Temperature	18.75		21.03		19.63		20.46		21.94		21.93		18.68		20.71		18.90		20.60	
Specific Conductance	49,700		48,200		50,400		49,100		56,300		54,600		48,800		49,100		49,100		49,200	
Oxygen, Dissolved	5.89		5.56		5.32		4.68		0.09		0.21		6.61		5.26		6.35		5.54	
Turbidity	2.26		0.68		1.76		1.59		29.40		16.30		4.01		1.57		3.02		1.58	
Salinity	32.2		31.2		32.7		31.8		37.2		35.8		31.5		31.9		31.8		31.9	
Depth	22.3		20		22.3		20		22.3		20.0		12.4		13.1		12.4		13.1	
Sample Depth	1		1		11.1		9.8		21.3		19		1		1		6.2		6.5	
Carbon dioxide	16		21		20		20		49		32		11		12		20		25	
Nitrogen, Organic	0.23		0.26		0.20	U	0.23		0.20	U	0.91		0.28		0.20		0.20	U	0.20	U
Ammonia as N, Dissolved	0.03	I	0.04	I	0.10		0.07		1.71	J	0.80		0.03	U	0.06		0.07		0.06	
Nitrogen, Total	0.26		0.32		0.25		0.31		0.96		1.71		0.28		0.27		0.23		0.25	
Ammonium ion	0.05	U	0.06		0.13		0.09		2.19		1.03		0.0500	U	0.08		0.0865		0.07	
Unionized Ammonia	0.002		0.002		0.003		0.002		0.00787		0.004		0	U	0.003		0.00328		0.002	

TABLE 5
Surfacewater Deadend Canals Analytical Results
Florida Power and Light
Turkey Point Plant

Parameter	78317		78368		78317		78317		78317		78317		78317		78317		78317	
	SW		SW		SW		SW		SW		SW		SW		SW		SW	
	TPBBCSC-M-B		S20Get-Mid-T		S20Get-Mid-M		S20Get-Mid-B		S20Get-CCS-T		S20Get-CCS-M		S20Get-CCS-B		S20Weir-Up-T			
	H	U	L															
Nitrogen, Kjeldahl	0.20	U	0.40		1.00		0.45		0.51		1.07		0.52		5.96	<i>J</i>	0.41	
Nitrate Nitrite as N	0.025	U	0.005	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
Phosphorus as P	0.008	I J3	0.004	I J3	0.009	I J3	0.015		0.013		0.010	I	0.009	I J3	0.165	J3	0.009	I
Sulfide	0.04	U	0.04	U	0.04	U	0.04	I	0.05	I	0.04	U	0.05	I	62.3		0.04	U
Orthophosphate, Dissolved	0.002	U	0.002	U J3	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.169		0.002	U
Total Organic Carbon	5.00	U	5.00	U	10.30		7.81	I	6.80		9.89		7.16	I	6.39	I	8.34	I
Coliform-Total	NA		2,400		10,600	B	16,700	B	12,500	B	6,500		4,200		4,700		4,700	
Coliform (total), in chlorine	NA		3,600		10,300	B	12,300	B	13,500	B	6,900		5,800		3,100		9,200	B
Chlorophyll a	1.6		1.1		1.9		5.9		3.7		1.1		3.2		1.9		2.1	
Field pH	7.85		7.93		7.52		7.50		7.58		7.46		7.57		6.86		7.72	
Field Temperature	19.44		20.49		20.60		21.20		21.20		19.60		20.90		23.50		20.70	
Specific Conductance	51,000		49,200		19,701		31,319		32,262		19,734		32,433		41,567		31,027	
Oxygen, Dissolved	4.89		5.00		4.46		3.41		4.61		4.32		4.59		1.00		5.97	
Turbidity	3.11		2.35		2.01		3.79		5.98		1.35		5.40		11.22		2.05	
Salinity	33.2		32.0		11.8		19.5		20.2		11.8		20.3		26.7		19.3	
Depth	12.4		13.1		16		16		16		19		19		19		6	
Sample Depth	11.4		12.1		1		8		15		1		9.5		18		1	
Carbon dioxide	26		25		8		15		8		10		5		5		8	
Nitrogen, Organic	0.20	U	0.34		0.71		0.33		0.36		0.74		0.40		0.20	U	0.33	
Ammonia as N, Dissolved	0.11		0.07		0.29		0.12		0.14		0.33		0.12		6.72	<i>J</i>	0.08	
Nitrogen, Total	0.23		0.40		1.00		0.45		0.51		1.07		0.52		5.96		0.41	
Ammonium ion	0.143		0.08		0.368		0.151		0.18		0.416		0.148		8.61		0.11	
Unionized Ammonia	0.00364		0.003		0.00477		0.00195		0.003		0.00437		0.00220		0.0301		0.002	

TABLE 5
Surfacewater Deadend Canals Analytical Results
Florida Power and Light
Turkey Point Plant

Parameter	78317		78317		78425		78425		78265		78395		78265		78395		78265		78395	
	SW		SW		SW				SW				SW				SW			
	S20Weir-Up-M		S20Weir-Up-B		S20Weir-Down-B				TPBBS20-B-S				TPBBS20-B-M				TPBBS20-B-B			
	H		L		H		L		H		L		H		L		H		L	
Nitrogen, Kjeldahl	0.41		0.55		0.40	<i>J</i>	0.34	<i>I</i>	0.20	<i>U</i>	0.20	<i>U</i>	0.20	<i>U</i>	0.20	<i>U</i>	0.20	<i>U</i>	0.43	
Nitrate Nitrite as N	0.025	<i>U</i>	0.025	<i>U</i>	0.025	<i>U</i>	0.025	<i>U</i>	0.005	<i>U</i>	0.007	<i>I</i>	0.005	<i>U</i>	0.012		0.005	<i>U</i>	0.012	
Phosphorus as P	0.008	<i>I</i>	0.009	<i>I</i>	0.048		0.023		0.003	<i>U</i>	0.003	<i>U</i>	0.003	<i>I</i>	0.004	<i>I</i>	0.007	<i>I</i>	0.009	<i>I</i>
Sulfide	0.04	<i>U</i>	0.04	<i>U</i>	10.40		5.26		0.04	<i>U</i>	0.04	<i>U</i>	0.04	<i>U</i>	0.04	<i>U</i>	0.04	<i>U</i>	0.04	<i>U</i>
Orthophosphate, Dissolved	0.002	<i>U</i>	0.002	<i>U</i>	0.042		0.004	<i>I</i>	0.004	<i>I</i>	0.002	<i>U</i>	0.003	<i>I</i>	0.002	<i>U</i>	0.002	<i>U</i>	0.002	<i>U</i>
Total Organic Carbon	7.45	<i>I</i>	6.52	<i>I</i>	10.60		7.32	<i>I</i>	2.88		6.07	<i>I</i>	2.94		5.00	<i>U</i>	2.88		5.14	<i>I</i>
Coliform-Total	6,100		3,500		NA		2,800		NA		6,900		NA		5,600		NA		5,400	
Coliform (total), in chlorine	6,500		5,400		NA		5,300		NA		5,900		NA		4,700		NA		4,900	
Chlorophyll a	1.6		1.1		3.1		2.1		0.8		0.5		1.1		0.5		1.1		2.7	
Field pH	7.75		7.79		6.71		7.06		8.06		7.59		8.05		7.47		8.07		7.63	
Field Temperature	20.80		21.10		26.40		25.21		18.55		21.15		18.41		21.07		18.42		20.92	
Specific Conductance	36,468		39,234		52,400		49,600		51,100		49,300		50,700		49,500		50,700		49,800	
Oxygen, Dissolved	5.62		6.06		0.11		0.28		6.17		3.99		6.47		3.76		5.85		3.61	
Turbidity	3.19		8.01		8.22		5.92		4.96		5.03		6.58		8.37		6.82		9.47	
Salinity	23.1		25.0		34.6		33.5		33.2		32.0		32.9		32.2		32.8		32.4	
Depth	6		6		4.9		4.5		13.7		9.8		13.7		9.8		13.7		9.8	
Sample Depth	3		5		3.9		3.6		1		1		6.8		4.9		12.7		8.8	
Carbon dioxide	4		10		66		55		15		37.5		15		23		19		30	
Nitrogen, Organic	0.32		0.50		0.20	<i>U</i>	0.20	<i>U</i>	0.20	<i>U</i>	0.20	<i>U</i>	0.20	<i>U</i>	0.20	<i>U</i>	0.20	<i>U</i>	0.20	
Ammonia as N, Dissolved	0.09		0.06		0.48	<i>J</i>	0.31		0.04	<i>I</i>	0.08		0.04	<i>I</i>	0.10		0.03	<i>U</i>	0.11	
Nitrogen, Total	0.41		0.55		0.40		0.34		0.21		0.20		0.21		0.20		0.21		0.44	
Ammonium ion	0.11		0.0709		0.614		0.391		0.05	<i>U</i>	0.0957		0.05	<i>U</i>	0.132		0.05	<i>U</i>	0.138	
Unionized Ammonia	0.002		0.00178		0.00187		0.00245		0.002		0.00152		0.002		0.00158		0.000	<i>U</i>	0.00236	

TABLE 5
Surfacewater Deadend Canals Analytical Results
Florida Power and Light
Turkey Point Plant

Parameter	78265		78395		78265		78395		78265		78395		78332		78395		78332		78395	
	SW				SW				SW				SW				SW			
	TPBBS20-MID-S				TPBBS20-MID-M				TPBBS20-MID-B				TPBBS20-M-S				TPBBS20-M-M			
	H		L		H		L		H		L		H		L		H		L	
Nitrogen, Kjeldahl	0.20	U	0.24	I	0.20	U	0.20	U	0.27	I	2.82		0.20	U	0.35	I	0.20	U	0.20	U
Nitrate Nitrite as N	0.005	U	0.007	I	0.005	U	0.006	I	0.005	U	0.005	U	0.025	U	0.005	U	0.025	U	0.015	
Phosphorus as P	0.003	I	0.003	U	0.004	I	0.003	U	0.004	I	0.003	U	0.003	U J3	0.003	U	0.003	I J3	0.003	U
Sulfide	0.04	U	0.05	I	0.04	U	0.04	U	0.04	U	0.04	I	0.04	U	0.04	U	0.04	U	0.04	U
Orthophosphate, Dissolved	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Total Organic Carbon	2.86		5.00	U	3.17		5.00	U	2.97		5.00	U	5.00	U	5.00	U	5.00	U	5.00	U
Coliform-Total	NA		2,100		NA		3,200		NA		4,600		NA		3,200		NA		3,100	
Coliform (total), in chlorine	NA		2,600		NA		2,900		NA		4,300		NA		2,700		NA		2,300	
Chlorophyll a	1.1		0.5		0.5		0.5		0.8		1.3		0.5		0.5		0.5		0.5	
Field pH	8.11		7.69		8.18		7.63		8.14		7.70		8.13		7.95		8.14		7.73	
Field Temperature	18.23		20.92		18.18		20.98		18.24		20.72		19.32		21.26		19.29		20.88	
Specific Conductance	50,100		50,000		49,500		49,900		50,100		50,300		48,800		49,700		48,600		50,500	
Oxygen, Dissolved	6.56		4.14		6.88		4.02		6.60		3.98		6.72		5.57		7.01		4.79	
Turbidity	5.58		3.49		4.30		4.09		4.34		6.46		2.22		2.59		2.36		2.82	
Salinity	32.4		32.5		32.0		32.5		32.4		32.7		31.6		32.3		31.4		32.8	
Depth	10.4		9.8		10.4		9.8		10.4		9.8		10.1		9.1		10.1		9.1	
Sample Depth	1		1		5.2		4.9		9.5		8.8		1		1		4.9		4.5	
Carbon dioxide	13.5		27		16		30		15		20		8.5		16.5		11		32	
Nitrogen, Organic	0.20	U	0.20	U	0.20	U	0.20	U	0.25		2.77		0.20	U	0.30		0.20	U	0.20	U
Ammonia as N, Dissolved	0.03	I	0.17		0.04	I	0.08		0.03	I	0.05		0.04	I	0.04	I	0.03	U	0.03	I
Nitrogen, Total	0.21		0.25		0.21		0.20		0.27		2.82		0.23		0.35		0.23		0.20	
Ammonium ion	0.05	U	0.209		0.05	U	0.0950		0.05	U	0.0690		0.05	U	0.0547		0.05	U	0.0500	U
Unionized Ammonia	0.000	U	0.00411		0.002		0.00163		0.000	U	0.00137		0.002		0.00200		0.000	U	0.000907	

TABLE 5
Surfacewater Deadend Canals Analytical Results
Florida Power and Light
Turkey Point Plant

Parameter	78332		78395		78368		78368		78368		78347		78347		78347		78177			
	SW		SW		SW		SW		SW		SW		SW		SW		SW			
	TPBBS20-M-B		SDC-SWCCS-T		SDC-SWCCS-M		SDC-SWCCS-B		SDC-East-T		SDC-East-M		SDC-East-B		TPBBSW-8S					
	H		L														H		L	
Nitrogen, Kjeldahl	0.20	U	0.43		1.18		1.24		29.20	J	0.20	U	0.20	U	0.23	I	0.40	I	0.36	I
Nitrate Nitrite as N	0.025	U	0.006	I	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	I	0.032	I
Phosphorus as P	0.003	U J3	0.003	U	0.003	U J3	0.005	I J3	0.442	J3	0.003	U	0.003	I	0.005	I	0.020		0.024	
Sulfide	0.04	U	0.04	U	0.04	U	0.43		315		0.04	U	0.04	U	0.04	I	0.04	U	0.04	U
Orthophosphate, Dissolved	0.002	U	0.002	U	0.002	U J3	0.002	U J3	0.097	J3	0.002	U	0.002	U	0.002	U	0.004	I	0.007	I J3
Total Organic Carbon	5.00	U	5.00	U	17.10		17.10		24.60		5.00	U	5.00	U	5.00	U	2.93		3.16	
Coliform-Total	NA		3,700		2,200		1,300	B	200	B	6,400		3,200		1,200	B	2,800		2,900	
Coliform (total), in chlorine	NA		3,300		2,700		1,000	B	200	B	7,100		4,000		800	B	2,300		2,300	
Chlorophyll a	0.8		0.5		0.8		10.0		43.0		0.5		2.1		1.9		1		1	
Field pH	8.16		7.76		7.89		7.59		6.68		7.94		7.74		7.74		8.05		7.78	
Field Temperature	19.34		20.80		21.60		23.50		26.70		21.60		21.10		20.90		23.43		23.10	
Specific Conductance	49,600		51,100		19,393		25,088		57,063		45,358		46,720		46,904		47,000		46,500	
Oxygen, Dissolved	6.76		4.47		7.05		3.87		1.65		6.12		4.72		4.53		4.63		3.94	
Turbidity	2.10		3.46		0.93		3.55		28.55		2.71		7.15		12.12		2.81		0.73	
Salinity	32.1		33.3		11.6		15.3		38.0		29.4		30.4		30.5		30.39		30.09	
Depth	10.1		9.1		11		11		11		7.5		7.5		7.5		25.9		25.9	
Sample Depth	9.1		8.2		1		5.5		10		1		3.75		6.5		1.0		1.0	
Carbon dioxide	10		13		10		10		80		2		2		3		30		30	
Nitrogen, Organic	0.20	U	0.40		1.09		1.09		0.20	U	0.20	U	0.20	U	0.23		0.249		0.200	U
Ammonia as N, Dissolved	0.04	I	0.04	I	0.09		0.15		31.00	J	0.04	I	0.07		0.03	U	0.147		0.181	
Nitrogen, Total	0.23		0.44		1.18		1.24		29.20		0.23	U	0.23	U	0.23		0.42		0.39	
Ammonium ion	0.05	U	0.0500	U	0.11		0.19		39.70		0.05	U	0.09		0.05	U	0.18		0.23	
Unionized Ammonia	0.00	U	0.00105		0.004		0.003		0.115		0.002		0.002		0.000	U	0.010		0.006	

TABLE 5
Surfacewater Deadend Canals Analytical Results
Florida Power and Light
Turkey Point Plant

Parameter	78177				78177				78205				78205				78205			
	SW				SW				SW				SW				SW			
	TPBBSW-8M				TPBBSW-8B				TPBBBSW-PTB2S				TPBBBSW-PTB2M				TPBBBSW-PTB2B			
	H		L		H		L		H		L		H		L		H		L	
Nitrogen, Kjeldahl	0.39	I	0.20	U	0.87		6.92		0.20	U	0.20	U	0.22	I	0.45		0.20	U	0.42	
Nitrate Nitrite as N	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
Phosphorus as P	0.016		0.048		0.046		0.823		0.005	I	0.007	I	0.024		0.015		0.008	I	0.006	I
Sulfide	0.04	U	0.04	U	0.04	U	35.90		0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
Orthophosphate, Dissolved	0.002	U	0.010	J3	0.028		0.681		0.002	U	0.002	U	0.005	I	0.005	I	0.002	U	0.002	U
Total Organic Carbon	2.99		3.06		3.08		6.44		3.60		3.60		2.96		2.91		3.45		2.87	
Coliform-Total	2,800		184	B J	300	B	110	B	NA		2,700		NA		800	B	NA		4,500	
Coliform (total), in chlorine	2,800		85	B J	400	B	152	B	NA		3,400		NA		800	B	NA		4,400	
Chlorophyll a	2		1		2		28		1		1		5		4		1		2	
Field pH	8.06		8.07		7.77		6.82		8.15		8.06		8.11		8.03		8.07		8.03	
Field Temperature	23.64		22.70		22.96		24.70		23.96		23.50		23.69		23.75		23.64		24.07	
Specific Conductance	47,100		46,900		47,000		49,500		43,700		44,000		47,300		47,300		43,900		47,700	
Oxygen, Dissolved	5.43		3.64		1.37		0.07		5.9		5.51		4.35		4.43		5.28		4.1	
Turbidity	1.53		1.13		1.02		29.2		1.05		2.74		1.09		1.24		1.16		3.88	
Salinity	30.54		30.35		30.44		32.34		28.11		28.3		30.69		30.69		28.24		31	
Depth	25.9		25.9		25.9		25.9		25.5		21.6		25.5		21.6		25.5		21.6	
Sample Depth	12.4		13.1		24.9		24.9		1.0		1.0		12.7		10.8		24.6		20.6	
Carbon dioxide	26		20		34		50		16.5		14.5		21		36		20.5		32.5	
Nitrogen, Organic	0.260		0.200	U	0.503		1.020		0.200	U	0.200	U	0.200	U	0.300		0.200	U	0.301	
Ammonia as N, Dissolved	0.132		0.203		0.367		5.9		0.026	U	0.0385	I	0.142		0.146		0.0361	I	0.123	
Nitrogen, Total	0.39		0.23	U	0.87		6.92		0.23	U	0.23	U	0.22		0.45		0.23	U	0.42	
Ammonium ion	0.16		0.25		0.46		7.56		0.05	U	0.05	U	0.17		0.18		0.05	U	0.15	
Unionized Ammonia	0.009		0.013		0.013		0.026		0.000	U	0.003		0.011		0.009		0.003		0.008	

TABLE 5
Surfacewater Deadend Canals Analytical Results
Florida Power and Light
Turkey Point Plant

Parameter	78205				78205				78205				78245		78227		78245		78227	
	SW				SW				SW				SW		SW		SW		SW	
	TPBBBSW-PTB3S				TPBBBSW-PTB3M				TPBBBSW-PTB3B				TPBBSW-7B-S		TPBBSW-7B-M		TPBBSW-7B-M		TPBBSW-7B-M	
	H		L		H		L		H		L		H		L		H		L	
Nitrogen, Kjeldahl	0.35	I	0.20	U	0.20	U	0.20	U	1.70		1.44		0.34	I	0.20	U	0.20	U	1.47	
Nitrate Nitrite as N	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.052		0.025	U	0.025	U	0.025	U	0.025	U
Phosphorus as P	0.009	I	0.005	I	0.022		0.003	U	0.293		0.052		0.003	U	0.003	U	0.003	U	0.0163	J3
Sulfide	0.04	U	0.04	U	0.04	U	0.04	U	10.90		2.25	I	0.38		0.04	U	0.67		26.80	
Orthophosphate, Dissolved	0.002	U	0.002	U	0.008	I	0.002	U	0.208		0.002	U	0.002	U	0.002	U	0.002	U	0.0165	
Total Organic Carbon	3.55		3.48		3.00		3.47		5.16		4.09		3.57		3.41		3.49		5.24	
Coliform-Total	NA		2,100	J	NA		2,400		NA		2,900		NA		3,000		NA		63	
Coliform (total), in chlorine	NA		4,700	J	NA		2,700		NA		3,100		NA		3,800		NA		49	
Chlorophyll a	1		1		3		1		25		15		2.9		3.2		3.5		33	
Field pH	8.20		8.09		8.09		7.95		7.32		7.03		7.94		7.84		7.97		6.77	
Field Temperature	24.13		23.73		23.47		23.40		23.84		23.06		18.5		23.6		18.6		25.9	
Specific Conductance	43,700		43,800		47,200		47,000		48,900		47,900		46,100		44,800		45,800		51,500	
Oxygen, Dissolved	8.31		5.51		4.06		3.14		0.08		0.1		4.53		3.76		5.44		0.50	
Turbidity	1.04		1		1.18		1.41		34.5		23.4		1.66		2.03		2.73		12.70	
Salinity	28.04		28.17		30.61		30.53		31.86		31.13		29.6		28.9		29.3		33.9	
Depth	26.5		23.6		26.5		23.6		26.5		23.6		23.9		22.3		23.9		22.3	
Sample Depth	1.0		1.0		13.1		11.8		25.5		22.6		1.0		1.0		12.1		11.1	
Carbon dioxide	18.5		18		17		25		47		29.5		32.5		35		34		68	
Nitrogen, Organic	0.352		0.200	U	0.200	U	0.200	U	0.200	U	0.921		0.20	U	0.20	U	0.20	U	0.20	
Ammonia as N, Dissolved	0.026	U	0.0399	I	0.168		0.0682		1.51		0.519		0.19		0.06		0.16		1.40	
Nitrogen, Total	0.35		0.23	U	0.23	U	0.23	U	1.70		1.49		0.38		0.23	U	0.23	U	1.47	
Ammonium ion	0.05	U	0.05	U	0.20		0.08		1.92		0.66		0.23		0.08		0.20		1.79	
Unionized Ammonia	0.000	U	0.003		0.012		0.004		0.020		0.003		0.007		0.003		0.006		0.006	

TABLE 5
Surfacewater Deadend Canals Analytical Results
Florida Power and Light
Turkey Point Plant

Parameter	78245		78227		78245		78227		78245		78227		78245		78227		78245		78265	
	SW				SW				SW				SW				SW			
	TPBBSW-7B-B				TPBBSW-7M-S				TPBBSW-7M-M				TPBBSW-7M-B				TPBBSW-7T-S			
	H		L		H		L		H		L		H		L		H		L	
Nitrogen, Kjeldahl	2.72		2.96		0.25	I	0.20	U	0.38	I	3.31	U	2.86		3.00		0.21	I	0.26	I
Nitrate Nitrite as N	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U
Phosphorus as P	0.066	J	0.108	J3	0.003	U	0.003	U J3	0.003	U	0.055	U J3	0.075	J	0.103	J3	0.003	U	0.005	I
Sulfide	29.20		28.30		0.35		0.04	U	0.52		29.70	U	28.50		29.30		0.04	U	0.04	U
Orthophosphate, Dissolved	0.092	J	0.110		0.002	U	0.002	U	0.002	U	0.037	U	0.098	J	0.103		0.002	U	0.002	U
Total Organic Carbon	4.93		4.72		3.50		3.39		3.51		5.18		5.05		4.95		3.31		3.42	
Coliform-Total	NA		189	B	NA		1,300	B J	NA		13	B J	NA		13		NA		1,900	B
Coliform (total), in chlorine	NA		120	B	NA		3,000	J	NA		30	J	NA		20		NA		1,900	B
Chlorophyll a	24		16		2.4		1.6	QR-04	4		29	QR-04	34		18		0.8		2.4	
Field pH	6.69		6.73		7.92		7.92		7.83		6.73		6.77		6.73		8.14		8.15	
Field Temperature	26.6		26.6		18.3		23.8		18.6		26.3		26.6		26.6		16.9		17.9	
Specific Conductance	52,700		54,000		46,100		44,700		46,300		52,600		53,400		54,000		45,000		44,300	
Oxygen, Dissolved	0.15		0.07		5.24		4.19		3.84		0.04		0.07		0.05		7.70		6.39	
Turbidity	9.46		7.94		1.58		1.18		2.30		6.27		5.56		7.53		1.96		2.10	
Salinity	34.9		35.8		29.5		28.8		29.7		34.8		35.3		35.8		28.7		28.3	
Depth	23.9		22.3		26.5		24.6		26.5		24.6		26.5		24.6		11.4		12.7	
Sample Depth	22.9		21.3		1.0		1.0		13.1		12.1		25.5		23.6		1.0		1.0	
Carbon dioxide	95		60		30		21.5		20		80		82		92		21		10	
Nitrogen, Organic	0.74		0.20		0.20	U	0.20	U	0.28		0.20	U	0.43		0.20		0.20	U	0.22	
Ammonia as N, Dissolved	1.98		1.93		0.12		0.06		0.10		1.84		2.43		1.83		0.05		0.04	I
Nitrogen, Total	2.72		2.96		0.25		0.23	U	0.38		3.31	U	2.86		3.00		0.21	I	0.26	
Ammonium ion	2.54		2.47		0.15		0.08		0.13		2.36		3.11		2.34		0.07		0.05	U
Unionized Ammonia	0.007		0.008		0.004		0.003		0.003		0.007		0.011		0.008		0.003		0.002	

TABLE 5
Surfacewater Deadend Canals Analytical Results
Florida Power and Light
Turkey Point Plant

Parameter	78245		78265		78245		78265	
	SW				SW			
	TPBBSW-7T-M				TPBBSW-7T-B			
	H		L		H		L	
Nitrogen, Kjeldahl	0.45		0.31	I	0.30	I Q	0.39	I
Nitrate Nitrite as N	0.025	U	0.025	U	0.025	U	0.025	U
Phosphorus as P	0.003	U	0.004	I	0.021		0.009	I
Sulfide	0.08	I	0.04	I	0.06	I	0.25	
Orthophosphate, Dissolved	0.002	U	0.002	U	0.002	U	0.002	U
Total Organic Carbon	3.26		3.60		3.36		3.80	
Coliform-Total	NA		1,700	B	NA		3,200	
Coliform (total), in chlorine	NA		2,100		NA		3,300	
Chlorophyll a	1.1		0.53		1.9		0.53	
Field pH	8.02		8.17		8.07		8.01	
Field Temperature	18.1		17.9		17.3		18.6	
Specific Conductance	45,500		43,900		45,300		45,300	
Oxygen, Dissolved	5.55		7.09		5.72		4.55	
Turbidity	1.64		2.02		1.60		4.03	
Salinity	24.1		28.0		28.9		29.0	
Depth	11.4		12.7		11.4		12.7	
Sample Depth	5.5		6.2		10.4		11.8	
Carbon dioxide	13		7		24		4	
Nitrogen, Organic	0.38		0.26		3.36		0.23	
Ammonia as N, Dissolved	0.08		0.04	I	0.06		0.16	
Nitrogen, Total	0.45		0.31		0.30	Q	0.39	
Ammonium ion	0.10		0.05		0.08		0.20	
Unionized Ammonia	0.003		0.002		0.003		0.007	

TestAmerica Qualifiers

- U Results not detected at the MDL
- I Results detected between the MDL and RL
- J3 Results estimated
- Q Outside of holding time

Florida Spectrum Qualifiers

- B Results based upon colony counts outside the acceptable range

E&E Qualifiers (in italics)

- J*

TABLE 6
Surfacewater Cooling Canal System Analytical Results
Florida Power and Light
Turkey Point Plant

	SDG	78347		78347		78347		78265		78265		78265		78205		78265		78245		78332	
	Sample Type:	SW		SW		SW		SW		SW		SW		SW		SW		SW		SW	
	Site:	POUF-T		POUF-M		POUF-B		CNMI-T		CNMI-M		CNMI-B		TPSWCCS-1T		TPSWCCS-2B		TPSWCCS-3B		TPSWCCS-4T	
Parameter	Units																				
Nitrogen, Kjeldahl	mg/L	5.34		5.00		5.58		5.42		5.96		6.22		3.36		6.18		5.52		6.72	
Nitrate Nitrite as N	mg/L	0.025	U	0.025	U	0.025	U	0.005	U	0.005	U	0.005	U	0.025	U	0.005	U	0.025	U	0.025	U
Phosphorus as P	mg/L	0.040		0.045		0.042		0.046		0.048		0.048		0.042		0.046		0.006	I J3	0.003	U
Sulfide	mg/L	0.08	I	0.08	I	0.09	I	0.05	I	0.06	I	0.06	I	0.04	U	0.05	I	0.05	I	0.06	I
Orthophosphate, Dissolved	mg/L	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.0021	U	0.0021	U	0.0021	U J3	0.0021	U
Total Organic Carbon	mg/L	63.00		63.20		62.10		57.90		57.20		57.60		55.8		57.1		50.8		61.9	
Coliform-Total	CFU/100 ml	12,000	B	11,200	B	12,800	B	8,700	B	11,400	B	9,400	B	4,100		13,200	B	8,600	B	5,700	
Coliform (total), in chlorine	CFU/100 ml	7,600		> 20,000	Z	12,600	B	9,600	B	10,300	B	9,200	B	3,900		13,600	B	8,500	B	6,900	
Chlorophyll a	mg/m3	17		69		140		200		110		120		330		140		140		180	
Field pH	SU	8.02		8.04		8.03		8.16		8.17		8.17		8.08		8.15		8.14		8.17	
Field Temperature	Degrees C	33.10		33.20		33.30		18.60		18.70		18.70		34.5		23.2		16.5		23.0	
Specific Conductance	umhos/cm	82,991		82,857		83,139		82,520		82,966		83,173		82,500		83,240		76,791		82,007	
Oxygen, Dissolved	mg/L	3.35		3.36		3.26		5.33		5.23		5.21		4.84		6.40		5.80		5.83	
Turbidity	NTU	49.49		52.98		51.33		55.5		54.76		54.39		53.83		53.4		46.6		52.69	
Salinity	SU	58.01		57.89		58.12		57.96		58.33		58.5		57.5		58.6		53.3		57.6	
Depth	ft	19.0		19.0		19.0		6.0		6.0		6.0		2.5		3.0		1.5		15.0	
Sample Depth	ft	1.0		9.5		18.0		1.0		3.0		5.0		1		2		1		1	
Carbon dioxide	mg/L	0		0		0		0		0		0		0		20		23		0	
Nitrogen, Organic	mg/L	5.28		4.94		5.52		5.37		5.92		6.17		3.32		6.14		5.45		6.66	
Ammonia as N, Dissolved	mg/L	0.065		0.056		0.0567		0.0495	I	0.0377	I	0.0455	I	0.0357	I	0.0426	I	0.0664		0.0577	
Nitrogen, Total	mg/L	5.34		5.00		5.58		5.42		5.96		6.22		3.36		6.18		5.52		6.72	
Ammonium ion	mg/L	0.08		0.06		0.07		0.06		0.05	U	0.06		0.05	U	0.05		0.08		0.07	
Un-ionized Ammonia	mg/L	0.007		0.007		0.007		0.003		0.002		0.003		0.005		0.003		0.003		0.005	

TABLE 6
Surfacewater Cooling Canal System Analytical Results
Florida Power and Light
Turkey Point Plant

Parameter	78332		78332		78245		78245		78245		78332		78332		78332		78245		78265		78265	
	SW		SW		SW		SW		SW		SW		SW		SW		SW		SW		SW	
	TPSWCCS-4M		TPSWCCS-4B		TPSWCCS-5T		TPSWCCS-5M		TPSWCCS-5B		TPSWCCS-6T		TPSWCCS-6M		TPSWCCS-6B		TPSWCCS-7B		MI-TCN		MI-TCS	
Nitrogen, Kjeldahl	6.00		6.92		6.34		6.56		6.78		6.3		6.76		6.08		5.66		6.28		6.18	
Nitrate Nitrite as N	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.005	U	0.005	U
Phosphorus as P	0.036		0.003	U	0.050	J3	0.049	J3	0.037	J3	0.003	U	0.040		0.003	U	0.089	J3	0.048		0.049	
Sulfide	0.07	I	0.06	I	0.07	I	0.07	I	0.07	I	0.06	I	0.06	I	0.06	I	0.08	I	0.05	I	0.06	I
Orthophosphate, Dissolved	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.0021	U J3	0.002	U	0.002	U
Total Organic Carbon	61.9		64.6		54.3		56.6		59.2		62.3		62.8		64.6		55.9		66.10		67.40	
Coliform-Total	12,900	B	13,100	B	10,500	B	9,900	B	11,600	B	14,100	B	12,400	B	13,200	B	11,100	B	15,400	B	12,600	B
Coliform (total), in chlorine	15,300	B	11,500	B	11,000	B	14,000	B	7,000		13,200	B	12,000	B	11,600	B	10,800	B	14,200	B	11,700	B
Chlorophyll a	5.3		140		140		170		160		110		170		140		170		150		130	
Field pH	8.17		8.17		8.18		8.18		8.18		8.12		8.12		8.12		8.1		8.15		8.10	
Field Temperature	23.0		23.1		18.1		18.2		18.2		22.3		22.3		22.3		22.1		19.4		18.6	
Specific Conductance	82,342		82,254		84,148		85,033		84,737		81,983		82,285		82,349		82,710		83,049		83,390	
Oxygen, Dissolved	5.52		5.47		5.15		5.09		6.42		5.11		4.34		4.19		3.53		6.08		5.67	
Turbidity	52.6		50.86		55.84		54.73		55.4		54.97		51.56		52.92		51.43		56.71		51.55	
Salinity	57.8		57.8		59.3		60.0		59.8		57.6		57.8		57.9		58.1		58.4		58.7	
Depth	15.0		15.0		15.0		15.0		15.0		17.0		17.0		17.0		1.0		0.8		1.0	
Sample Depth	7.5		14		1		7.5		14		1		8.5		16		0.5		0.5		0.5	
Carbon dioxide	0		0		10		10		10		0		0		5		30		0		15	
Nitrogen, Organic	5.95		6.86		6.27		6.50		6.72		6.25		6.71		6.02		5.60		6.23		6.13	
Ammonia as N, Dissolved	0.047	I	0.0582		0.0651		0.0585		0.0647		0.0538		0.049	I	0.0592		0.0618		0.05		0.05	I
Nitrogen, Total	6.00		6.92		6.34		6.56		6.78		6.3		6.76		6.08		5.66		6.28		6.18	
Ammonium ion	0.06		0.07		0.08		0.07		0.08		0.07		0.06		0.07		0.08		0.07		0.06	
Unionized Ammonia	0.004		0.005		0.004		0.004		0.004		0.004		0.003		0.004		0.004		0.003		0.002	

TABLE 6
Surfacewater Cooling Canal System Analytical Results
Florida Power and Light
Turkey Point Plant

Parameter	78332		78332		78332	
	SW		SW		SW	
	GcBr-T		GcBr-M		GcBr-B	
Nitrogen, Kjeldahl	3.86		6.60		4.62	
Nitrate Nitrite as N	0.005	U	0.005	U	0.005	U
Phosphorus as P	0.016	J3	0.013	J3	0.017	J3
Sulfide	0.05	I	0.06	I	0.07	I
Orthophosphate, Dissolved	0.002	U	0.002	U Q	0.002	U
Total Organic Carbon	63.60		64.00		62.60	
Coliform-Total	6,400		12,200	B	12,300	B
Coliform (total), in chlorine	7,100		9,800	B	10,600	B
Chlorophyll a	96		140		96	
Field pH	8.09		8.06		8.07	
Field Temperature	21.9		21.5		21.6	
Specific Conductance	83,157		83,055		83,386	
Oxygen, Dissolved	4.96		3.79		3.09	
Turbidity	51.29		50.66		49.13	
Salinity	58.5		58.4		58.7	
Depth	25.5		25.5		25.5	
Sample Depth	1.0		12.8		24.5	
Carbon dioxide	0		2		2	
Nitrogen, Organic	3.81		6.55		4.56	
Ammonia as N, Dissolved	0.05	I	0.05	I	0.06	
Nitrogen, Total	3.86		6.60		4.62	
Ammonium ion	0.06		0.06		0.07	
Unionized Ammonia	0.003		0.003		0.004	

TestAmerica Qualifiers

- U Results not detected at the MDL
- I Results detected between the MDL and RL
- J3 Results estimated
- Q Outside of holding time

Florida Spectrum Qualifiers

- B Results based upon colony counts outside the acceptable range

E&E Qualifiers (in italics)

- J* Results estimated

TABLE 7
Porewater Analytical Results
Florida Power and Light
Turkey Point Plant

	SDG	78154		78177		78205		78227		78227		78425		78395		78368		78395	
	Sample Type:	PW		PW		PW		PW		PW		PW		PW		PW		PW	
	Site:	TPBBSW-6		TPBBSW-10		TPBBBSW-PTB1		TPBBSW-7M		TPBBSW-7Tt		S20-Weir-Dwn		TPBBS20-B		TPBBSW-4		TPBBSW-14	
Parameter	Units																		
Nitrogen, Kjeldahl	mg/L	2.88		0.65		3.82		10.50		0.21	I	0.66		15.80		0.73		0.57	
Nitrate Nitrite as N	mg/L	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.025	U	0.0533		0.025	U	0.025	U
Phosphorus as P	mg/L	0.281	J3	0.041		0.096		0.870	J3	0.007	I J3	0.060		0.425		0.013	J3	0.015	
Sulfide	mg/L	6.41		2.80	I	8.38		128		9.80		9.41		429		6.20	I	5.48	
Orthophosphate, Dissolved	mg/L	0.106		0.002	U J3	0.009	I	0.848		0.003	I	0.051		0.379		0.002	I J3	0.006	I
Total Organic Carbon	mg/L	5.37		3.81		7.81		8.18		3.71		10.10		14.10		5.00	U	5.00	U
Coliform-Total	CFU/100 ml	11,800	B J	12		400	B	1	U	13	J	1	U	1	U	200	B	200	B
Coliform (total), in chlorine	CFU/100 ml	1800	B J	23		400	B	1	U	5	J	1	U	1	U	200	B	200	B
Chlorophyll a	mg/m3																		
Field pH	SU	6.96		6.81		7.11		6.85		7.07		6.83		6.78		7.43		7.44	
Field Temperature	Degrees C	22.4		24.0		24.5		26.0		24.4		NA		NA		NA		NA	
Specific Conductance	umhos/cm	47,900		41,600		41,300		54,800		41,100		52,200		50,700		50,100		49,100	
Oxygen, Dissolved	mg/L	1.61		2.53		3.67		1.34		0.89		0.82		0.46		2.75		1.42	
Turbidity	NTU	2.5		4.0		95.9		21.2		7.1		62.9		13.6		80.2		20.2	
Salinity	SU	31.5		26.8		26.5		36.4		26.3		34.6		33.0		32.7		32.0	
Depth	ft	12.10		4.2		3.2		24.6		3.2		4.5		9.8		9.8		7.2	
Sample Depth*	ft	--		--		--		--		--		--		--		--		--	
Carbon dioxide	mg/L	65		49		33		86		57		95		259		20		20	
Nitrogen, Organic	mg/L	1.6		0.5		3.6		0.2		0.2	U	0.20	U	0.20	U	0.6		0.20	U
Ammonia as N, Dissolved	mg/L	1.33		0.19		0.24		7.31		0.04	I	0.52		15.7		0.14		0.37	
Nitrogen, Total	mg/L	2.88		0.65		3.82		10.50		0.21		0.664		15.90		0.73		0.57	
Ammonium ion	mg/L	1.70		0.24		0.31		9.36		0.06		0.671		20.1		0.17		0.469	
Un-ionized Ammonia	mg/L	0.007		0.001		0.002		0.038		0.000		0.00247		0.0487		0.002		0.00542	

TestAmerica Qualifiers

- U Results not detected at the MDL
- I Results detected between the MDL and RL
- J3 Results estimated
- Q Outside of holding time

Florida Spectrum Qualifiers

- B Results based upon colony counts outside the acceptable range

E&E Qualifiers (in italics)

- J* Results estimated

**Table 8
Nitrogen Speciation
Ammonia in Surface Waters
Florida Power and Light
Turkey Point Power Plant**

No.	Location	Area	Type	Tide	Nitrogen Speciation (mg/L)				Combined N methods (mg/L)			Redox Indicators (mg/L)		Notes:
					Organic Nitrogen	Ammonium ion	Unionized ammonia	Nitrate-Nitrite	Ammonia (unionized + ammonium ion)	TKN (organic nitrogen + ammonia)	Total Nitrogen (TKN + nitrate-nitrite)	Dissolved Oxygen	Sulfide	
1	FTF-SW	near plant	GW	--	0.2	2.7	0.0128	0.025	2.11	2.14	2.14	0.22	24.3	high ammonia, low dissolved oxygen
2	FTF-NW	near plant	GW	--	0.2	2.97	0.014	0.025	2.32	2.34	2.34	0.37	29.6	high ammonia, low dissolved oxygen
3	FTF-SE	near plant	GW	--	0.2	0.885	0.00443	0.025	0.692	0.858	0.858	0.36	4.07	high ammonia, low dissolved oxygen
4	MW-3	near Bay	GW	--	0.78	0.223	0.000802	0.025	0.174	0.954	0.954	0.19	6	
5	MW-4	near Bay	GW	--	0.348	0.264	0.000845	0.025	0.206	0.554	0.554	0.29	0.182	
6	MW-5	near Bay	GW	--	0.2	0.838	0.00233	0.025	0.654	0.844	0.844	0.14	12.2	high ammonia, low dissolved oxygen
7	North MW	near plant	GW	--	0.2	2.25	0.0217	0.025	1.77	1.87	1.87	0.38	0.0393	high ammonia, low dissolved oxygen
8	South MW	near plant	GW	--	6.1	5.87	0.0429	0.025	4.6	10.7	10.7	0.32	0.0791	high ammonia, low dissolved oxygen
9	POUF-T	cooling system	SW	--	5.28	0.0757	0.00744	0.025	0.065	5.34	5.34	3.35	0.0847	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
10	POUF-M	cooling system	SW	--	4.94	0.0649	0.00672	0.025	0.056	5	5	3.36	0.0802	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
11	POUF-B	cooling system	SW	--	5.52	0.0658	0.00671	0.025	0.0567	5.58	5.58	3.26	0.0881	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
12	CNMI-T	cooling system	SW	--	5.37	0.0605	0.00296	0.005	0.0495	5.42	5.42	5.33	0.0529	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
13	CNMI-M	cooling system	SW	--	5.92	0.05	0.00232	0.005	0.0377	5.96	5.96	5.23	0.0609	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
14	CNMI-B	cooling system	SW	--	6.17	0.0555	0.0028	0.005	0.0455	6.22	6.22	5.21	0.0597	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
15	TPBBSW-6S	Turning Basin	SW	high	0.326	0.0806	0.00695	0.025	0.0684	0.394	0.394	5.68	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
16	TPBBSW-6S	Turning Basin	SW	low	0.282	0.0677	0.00468	0.0264	0.0565	0.338	0.364	6.24	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
17	TPBBSW-6M	Turning Basin	SW	high	0.2	0.0982	0.00558	0.0324	0.081	0.2	0.2	6.26	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
18	TPBBSW-6M	Turning Basin	SW	low	0.2	0.072	0.00469	0.0333	0.0599	0.2	0.2	6.07	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
19	TPBBSW-6B	Turning Basin	SW	high	0.462	0.17	0.0072	0.0251	0.138	0.6	0.625	4.86	0.036	
20	TPBBSW-6B	Turning Basin	SW	low	0.288	0.189	0.0114	0.0305	0.156	0.444	0.475	4.8	0.036	low total nitrogen - denitrification or anammox likely predominates
21	TPBBSW-8S	Turning Basin	SW	high	0.249	0.179	0.00964	0.0254	0.147	0.396	0.421	4.63	0.036	low total nitrogen - denitrification or anammox likely predominates
22	TPBBSW-8S	Turning Basin	SW	low	0.2	0.226	0.00639	0.0316	0.181	0.362	0.394	3.94	0.036	low total nitrogen - denitrification or anammox likely predominates
23	TPBBSW-8M	Turning Basin	SW	high	0.26	0.16	0.00898	0.025	0.132	0.392	0.392	5.43	0.036	low total nitrogen - denitrification or anammox likely predominates
24	TPBBSW-8M	Turning Basin	SW	low	0.2	0.247	0.0132	0.025	0.203	0.2	0.225	3.64	0.036	low total nitrogen - denitrification or anammox likely predominates
25	TPBBSW-8B	Turning Basin	SW	high	0.503	0.459	0.0126	0.025	0.367	0.87	0.87	1.37	0.036	
26	TPBBSW-8B	Turning Basin	SW	low	1.02	7.56	0.0263	0.025	5.9	6.92	6.92	0.07	35.9	high ammonia, low dissolved oxygen
27	TPBBSW-10	open Bay	SW	high	0.2	0.0539	0.00313	0.025	0.0445	0.2	0.225	5.97	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
28	TPBBSW-10	open Bay	SW	low	0.2	0.0674	0.00409	0.025	0.0558	0.2	0.225	4.86	0.036	low total nitrogen - denitrification or anammox likely predominates
29	TPBBSW-PTB1B	Turning Basin	SW	high	0.2	0.0821	0.00677	0.025	0.0694	0.218	0.218	5.92	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
30	TPBBSW-PTB1B	Turning Basin	SW	low	0.2	0.0554	0.00277	0.025	0.0454	0.206	0.206	4.42	0.036	low total nitrogen - denitrification or anammox likely predominates
31	TPBBSW-PTB2S	Turning Basin	SW	high	0.2	0.05	0.000017	0.025	0.026	0.2	0.225	5.9	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
32	TPBBSW-PTB2S	Turning Basin	SW	low	0.2	0.05	0.00259	0.025	0.0385	0.2	0.225	5.51	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
33	TPBBSW-PTB2M	Turning Basin	SW	high	0.2	0.171	0.0108	0.025	0.142	0.22	0.22	4.35	0.036	low total nitrogen - denitrification or anammox likely predominates
34	TPBBSW-PTB2M	Turning Basin	SW	low	0.3	0.178	0.00937	0.025	0.146	0.446	0.446	4.43	0.036	low total nitrogen - denitrification or anammox likely predominates
35	TPBBSW-PTB2B	Turning Basin	SW	high	0.2	0.05	0.00251	0.025	0.0361	0.2	0.225	5.28	0.036	low total nitrogen - denitrification or anammox likely predominates
36	TPBBSW-PTB2B	Turning Basin	SW	low	0.301	0.15	0.00807	0.025	0.123	0.424	0.424	4.1	0.036	low total nitrogen - denitrification or anammox likely predominates
37	TPBBSW-PTB3S	Turning Basin	SW	high	0.352	0.05	0.000017	0.025	0.026	0.352	0.352	8.31	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
38	TPBBSW-PTB3S	Turning Basin	SW	low	0.2	0.05	0.00291	0.025	0.0399	0.2	0.125	5.51	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
39	TPBBSW-PTB3M	Turning Basin	SW	high	0.2	0.203	0.0121	0.025	0.168	0.2	0.225	4.06	0.036	low total nitrogen - denitrification or anammox likely predominates
40	TPBBSW-PTB3M	Turning Basin	SW	low	0.2	0.0839	0.00359	0.025	0.0682	0.2	0.225	3.14	0.036	low total nitrogen - denitrification or anammox likely predominates
41	TPBBSW-PTB3B	Turning Basin	SW	high	0.2	1.92	0.0199	0.025	1.51	1.7	1.7	0.08	10.9	high ammonia, low dissolved oxygen
42	TPBBSW-PTB3B	Turning Basin	SW	low	0.921	0.664	0.00333	0.0523	0.519	1.44	1.49	0.1	2.25	high ammonia, low dissolved oxygen

**Table 8
Nitrogen Speciation
Ammonia in Surface Waters**

No.	Location	Area	Type	Tide	Organic Nitrogen	Ammonium ion	Unionized ammonia	Nitrate-Nitrite	Ammonia (unionized + ammonium ion)	Florida Power and Light Turtle Point (organic nitrogen + ammonia)	Florida Power and Light Turtle Point (TKN + nitrate-nitrite)	Dissolved Oxygen	Sulfide	Notes:
43	TPSWCCS-1B	cooling system	SW	--	3.32	0.05	0.00503	0.025	0.0357	3.36	3.36	4.84	0.036	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
44	TPSWCCS-2B	cooling system	SW	--	6.14	0.0512	0.00342	0.005	0.0426	6.18	6.18	6.4	0.0495	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
45	TPSWCCS-3B	cooling system	SW	--	5.45	0.0819	0.00327	0.025	0.0664	5.52	5.52	5.8	0.0518	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
46	TPSWCCS-4T	cooling system	SW	--	6.66	0.0691	0.00477	0.025	0.0577	6.72	6.72	5.83	0.0575	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
47	TPSWCCS-4M	cooling system	SW	--	5.95	0.0563	0.00388	0.025	0.047	6	6	5.52	0.0734	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
48	TPSWCCS-4B	cooling system	SW	--	6.86	0.0697	0.00484	0.025	0.0582	6.92	6.92	5.47	0.0632	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
49	TPSWCCS-5T	cooling system	SW	--	6.27	0.0795	0.00393	0.025	0.0651	6.34	6.34	5.15	0.0654	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
50	TPSWCCS-5M	cooling system	SW	--	6.5	0.0715	0.00355	0.025	0.0585	6.56	6.56	5.09	0.0734	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
51	TPSWCCS-5B	cooling system	SW	--	6.72	0.079	0.00393	0.025	0.0647	6.78	6.78	6.42	0.0654	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
52	TPSWCCS-6T	cooling system	SW	--	6.25	0.0651	0.00381	0.025	0.0538	6.3	6.3	5.11	0.0575	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
53	TPSWCCS-6M	cooling system	SW	--	6.71	0.0593	0.00347	0.025	0.049	6.76	6.76	4.34	0.0563	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
54	TPSWCCS-6B	cooling system	SW	--	6.02	0.0717	0.00419	0.025	0.0592	6.08	6.08	4.19	0.0575	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
55	TPSWCCS-7B	cooling system	SW	--	5.6	0.0751	0.00413	0.025	0.0618	5.66	5.66	3.53	0.0779	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
56	C6-5E	cooling system	GW	--	0.2	3.17	0.0148	0.025	2.48	2.48	2.48	0.34	3.56	high ammonia, low dissolved oxygen
57	GcBr-T	cooling system	SW	--	3.81	0.0587	0.00311	0.005	0.0482	3.86	3.86	4.96	0.0541	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
58	GcBr-M	cooling system	SW	--	6.55	0.056	0.00269	0.005	0.0458	6.6	6.6	3.79	0.0563	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
59	GcBr-B	cooling system	SW	--	4.56	0.0724	0.00359	0.005	0.0593	4.62	4.62	3.09	0.0688	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
60	MI-TCN	cooling system	SW	--	6.23	0.0661	0.00335	0.005	0.0542	6.28	6.28	6.08	0.0541	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
61	MI-TCS	cooling system	SW	--	6.13	0.0575	0.00245	0.005	0.0467	6.18	6.18	5.67	0.0609	high organic nitrogen - likely assimilation of nitrogen into cells (nitrogen fixation or N uptake) and decay of those cells dominates
62	TPBBSW-7B-S	Turtle Point	SW	high	0.2	0.231	0.00677	0.025	0.185	0.338	0.38	4.53	0.377	low total nitrogen - denitrification or anammox likely predominates
63	TPBBSW-7B-S	Turtle Point	SW	low	0.2	0.0755	0.00254	0.025	0.0608	0.2	0.225	3.76	0.036	low total nitrogen - denitrification or anammox likely predominates
64	TPBBSW-7B-M	Turtle Point	SW	high	0.2	0.204	0.00644	0.025	0.164	0.2	0.225	5.44	0.665	low total nitrogen - denitrification or anammox likely predominates
65	TPBBSW-7B-M	Turtle Point	SW	low	0.2	1.79	0.00606	0.025	1.4	1.47	1.47	0.5	26.8	high ammonia
66	TPBBSW-7B-B	Turtle Point	SW	high	0.74	2.54	0.00746	0.025	1.98	2.72	2.72	0.15	29.2	high ammonia, low dissolved oxygen
67	TPBBSW-7B-B	Turtle Point	SW	low	0.2	2.47	0.00799	0.025	1.93	2.96	1.15	0.07	28.3	high ammonia, low dissolved oxygen
68	TPBBSW-7M-S	Turtle Point	SW	high	0.2	0.152	0.00421	0.025	0.122	0.25	0.25	5.24	0.354	low total nitrogen - denitrification or anammox likely predominates
69	TPBBSW-7M-S	Turtle Point	SW	low	0.2	0.0758	0.0031	0.025	0.0615	0.2	0.225	4.19	0.036	low total nitrogen - denitrification or anammox likely predominates
70	TPBBSW-7M-M	Turtle Point	SW	high	0.278	0.128	0.00293	0.025	0.102	0.38	0.38	3.84	0.524	low total nitrogen - denitrification or anammox likely predominates
71	TPBBSW-7M-M	Turtle Point	SW	low	0.2	2.36	0.00747	0.025	1.84	3.31	0.964	0.04	29.7	high ammonia, low dissolved oxygen
72	TPBBSW-7M-B	Turtle Point	SW	high	0.43	3.11	0.011	0.025	2.43	2.86	2.86	0.07	28.5	high ammonia, low dissolved oxygen
73	TPBBSW-7M-B	Turtle Point	SW	low	0.2	2.34	0.00757	0.025	1.83	3	1.01	0.05	29.3	high ammonia, low dissolved oxygen
74	TPBBSW-7T-S	Turtle Point	SW	high	0.2	0.0658	0.0027	0.025	0.0534	0.206	0.206	7.7	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
75	TPBBSW-7T-S	Turtle Point	SW	low	0.22	0.05	0.00224	0.025	0.0401	0.26	0.26	6.39	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
76	TPBBSW-7T-M	Turtle Point	SW	high	0.375	0.0953	0.00325	0.025	0.0768	0.452	0.452	5.55	0.0836	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
77	TPBBSW-7T-M	Turtle Point	SW	low	0.263	0.0522	0.00247	0.025	0.0426	0.306	0.306	7.09	0.0427	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
78	TPBBSW-7T-B	Turtle Point	SW	high	3.36	0.0776	0.00281	0.025	0.0627	0.296	0.296	5.72	0.0575	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
79	TPBBSW-7T-B	Turtle Point	SW	low	0.225	0.202	0.00702	0.025	0.163	0.388	0.388	4.55	0.252	low total nitrogen - denitrification or anammox likely predominates

**Table 8
Nitrogen Speciation
Ammonia in Surface Waters**

No.	Location	Area	Type	Tide	Organic Nitrogen	Ammonium ion	Unionized ammonia	Nitrate-Nitrite	Ammonia (unionized + ammonium ion)	Florida Power and Light Turkey Point (organic nitrogen + ammonia)	Poal Plant (TKN + nitrate-nitrite)	Dissolved Oxygen	Sulfide	Notes:
80	TPBBSW-7Tt-B	open Bay	SW	high	3.27	0.0746	0.00333	0.025	0.0608	0.264	0.264	6.45	0.036	low total nitrogen and high dissolved oxygen - denitrification likely predominates
81	TPBBSW-7Tt-B	open Bay	SW	low	0.2	0.0517	0.00341	0.025	0.043	0.238	0.238	7.1	0.036	low total nitrogen and high dissolved oxygen - denitrification likely predominates
82	S20Get-CCS-T	S-20	SW	--	0.743			0.025	0.327	1.07	1.07	4.32	0.036	
83	S20Get-CCS-M	S-20	SW	--	0.401			0.025	0.117	0.518	0.518	4.59	0.0495	
84	S20Get-CCS-B	S-20	SW	--				0.025	6.72	5.96	5.96	1	62.3	high ammonia
85	S20Get-Mid-T	S-20	SW	--	0.706			0.025	0.29	0.996	0.996	4.46	0.036	
86	S20Get-Mid-M	S-20	SW	--	0.331			0.025	0.119	0.45	0.45	3.41	0.037	low total nitrogen - denitrification or anammox likely predominates
87	S20Get-Mid-B	S-20	SW	--	0.362	0.182	0.00284	0.025	0.144	0.506	0.506	4.61	0.0484	
88	S20Weir-Up-T	S-20	SW	--	0.329	0.105	0.00217	0.025	0.0834	0.412	0.412	5.97	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
89	S20Weir-Up-M	S-20	SW	--	0.322	0.111	0.00247	0.025	0.088	0.41	0.41	5.62	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
90	S20Weir-Up-B	S-20	SW	--	0.495			0.025	0.0566	0.552	0.552	6.06	0.036	
91	SDC-SWCCS-T	south canal	SW	--	1.09	0.113	0.00369	0.025	0.0907	1.18	1.18	7.05	0.036	
92	SDC-SWCCS-M	south canal	SW	--	1.09	0.185	0.00348	0.025	0.147	1.24	1.24	3.87	0.427	
93	SDC-SWCCS-B	south canal	SW	--	0.2	39.7	0.115	0.025	31	29.2	29.2	1.65	315	high ammonia, highly reducing conditions - DNRA possible.
94	SDC-East-T	south canal	SW	--	0.2	0.05	0.00167	0.025	0.0367	0.2	0.225	6.12	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
95	SDC-East-M	south canal	SW	--	0.2	0.0914	0.00204	0.025	0.0728	0.2	0.225	4.72	0.036	low total nitrogen - denitrification or anammox likely predominates
96	SDC-East-B	south canal	SW	--	0.234	0.05	0.000017	0.025	0.026	0.234	0.234	4.53	0.0393	low total nitrogen - denitrification or anammox likely predominates
97	S20Weir-Down-B	S-20	SW	high				0.025	0.479			0.11	10.4	
98	S20Weir-Down-B	S-20	SW	low				0.025	0.306			0.28	5.26	
99	TPSWC-7-S	crocodile nesting	SW	high	0.425	0.0709	0.00193	0.00886	0.0567	0.482	0.491	4.85	0.036	low total nitrogen - denitrification or anammox likely predominates
100	TPSWC-7-S	crocodile nesting	SW	low	0.2	0.0703	0.00247	0.025	0.0567	0.244	0.244	6.21	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
101	TPSWC-7-M	crocodile nesting	SW	high	0.326	0.0665	0.000702	0.00659	0.0523	0.378	0.385	5.51	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
102	TPSWC-7-M	crocodile nesting	SW	low	0.2	0.127	0.00229	0.025	0.101	0.2	0.225	5.16	0.335	low total nitrogen - denitrification or anammox likely predominates
103	TPSWC-7-B	crocodile nesting	SW	high	0.326	0.0665	0.000702	0.00659	0.0523	0.378	0.385	5.51	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
104	TPSWC-7-B	crocodile nesting	SW	low	1.2	4.36	0.00794	0.025	3.4	4.6	4.6	0.07	37.5	high ammonia, low dissolved oxygen
105	TPSWC-8-S	crocodile nesting	SW	high	0.2	0.0936	0.00239	0.00977	0.0748	0.2	0.2	4.67	0.036	low total nitrogen - denitrification or anammox likely predominates
106	TPSWC-8-S	crocodile nesting	SW	low	0.2	0.249	0.00451	0.025	0.197	0.262	0.262	3.56	0.0722	low total nitrogen - denitrification or anammox likely predominates
107	TPSWC-8-M	crocodile nesting	SW	high	0.406	0.187	0.003	0.00767	0.148	0.554	0.562	3.16	0.0495	
108	TPSWC-8-M	crocodile nesting	SW	low	0.2	0.292	0.00462	0.025	0.231	0.31	0.31	4.53	0.929	low total nitrogen - denitrification or anammox likely predominates
109	TPSWC-8-B	crocodile nesting	SW	high	1.13	10.3	0.0182	0.025	8.03	9.16	9.16	0.1	102	high ammonia, highly reducing conditions - DNRA possible.
110	TPSWC-8-B	crocodile nesting	SW	low	1.59	10.4	0.0165	0.025	8.07	9.66	9.66	0.13	55.8	high ammonia, low dissolved oxygen
111	TPBBS20-B-S	S-20	SW	high	0.2	0.05	0.00178	0.005	0.0372	0.2	0.205	6.17	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
112	TPBBS20-B-S	S-20	SW	low	0.2	0.0957	0.00152	0.00701	0.0757	0.2	0.2	3.99	0.036	low total nitrogen - denitrification or anammox likely predominates
113	TPBBS20-B-M	S-20	SW	high	0.2	0.05	0.00169	0.005	0.0365	0.2	0.205	6.47	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
114	TPBBS20-B-M	S-20	SW	low	0.2	0.132	0.00158	0.0124	0.104	0.2	0.2	3.76	0.036	low total nitrogen - denitrification or anammox likely predominates
115	TPBBS20-B-B	S-20	SW	high	0.2	0.05	0.000017	0.005	0.026	0.2	0.205	5.85	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
116	TPBBS20-B-B	S-20	SW	low	0.2	0.138	0.00236	0.0119	0.109	0.428	0.44	3.61	0.036	low total nitrogen - denitrification or anammox likely predominates
117	TPBBS20-MID-S	S-20	SW	high	0.2	0.05	0.000017	0.005	0.0288	0.2	0.205	6.56	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
118	TPBBS20-MID-S	S-20	SW	low	0.2	0.209	0.00411	0.0074	0.166	0.238	0.245	4.14	0.0518	low total nitrogen - denitrification or anammox likely predominates
119	TPBBS20-MID-M	S-20	SW	high	0.2	0.05	0.00219	0.005	0.0361	0.2	0.205	6.88	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
120	TPBBS20-MID-M	S-20	SW	low	0.2	0.095	0.00163	0.00628	0.0752	0.2	0.2	4.02	0.036	low total nitrogen - denitrification or anammox likely predominates
121	TPBBS20-MID-B	S-20	SW	high	0.245	0.05	0.000017	0.005	0.0274	0.272	0.272	6.6	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
122	TPBBS20-MID-B	S-20	SW	low	2.77	0.069	0.00137	0.005	0.0548	2.82	2.82	3.98	0.0393	
123	TPBBS20-M-S	S-20	SW	high	0.2	0.05	0.00208	0.025	0.0353	0.2	0.225	6.72	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
124	TPBBS20-M-S	S-20	SW	low	0.302	0.0547	0.002	0.005	0.0442	0.346	0.346	5.57	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
125	TPBBS20-M-M	S-20	SW	high	0.2	0.05	0.000017	0.025	0.026	0.2	0.225	7.01	0.036	low total nitrogen and higher dissolved oxygen - denitrification likely predominates
126	TPBBS20-M-M	S-20	SW	low	0.2	0.05	0.000907	0.0146	0.0336	0.2	0.2	4.79	0.036	low total nitrogen - denitrification or anammox likely predominates

**Table 8
Nitrogen Speciation
Ammonia in Surface Waters**

No.	Location	Area	Type	Tide	Organic Nitrogen	Ammonium ion	Unionized ammonia	Nitrate-Nitrite	Ammonia (unionized + ammonium ion)	Florida Power and Light Turkey Point (organic nitrogen + ammonia)	Poal Pines (TKN + nitrate-nitrite)	Dissolved Oxygen	Sulfide	Notes:
127	TPBBS20-M-B	S-20	SW	high	0.2	0.05	0.00227	0.025	0.0361	0.2	0.225	6.76	0.036	low total nitrogen and higher dissolved oxygen - denitrofication likely prodominates
128	TPBBS20-M-B	S-20	SW	low	0.396	0.05	0.00105	0.00589	0.0364	0.432	0.438	4.47	0.036	low total nitrogen - denitrofication or anammox likely prodominates
129	TPBBCSC-B-S	Card Sound Canal	SW	high	0.311			0.025	0.083	0.394	0.394	5.75	0.036	low total nitrogen and higher dissolved oxygen - denitrofication likely prodominates
130	TPBBCSC-B-S	Card Sound Canal	SW	low	0.253	0.0609	0.00174	0.0125	0.0488	0.302	0.315	5.23	0.036	low total nitrogen - denitrofication or anammox likely prodominates
131	TPBBCSC-B-M	Card Sound Canal	SW	high	0.255			0.025	0.0888	0.344	0.344	5.6	0.036	low total nitrogen and higher dissolved oxygen - denitrofication likely prodominates
132	TPBBCSC-B-M	Card Sound Canal	SW	low	0.2	0.0625	0.00171	0.00855	0.05	0.24	0.249	5.34	0.036	low total nitrogen - denitrofication or anammox likely prodominates
133	TPBBCSC-B-B	Card Sound Canal	SW	high				0.025	0.909			0.35	4.61	high ammonia, low dissolved oxygen
134	TPBBCSC-B-B	Card Sound Canal	SW	low	0.411	1.23	0.00602	0.025	0.959	1.37	1.37	0.1	7.56	high ammonia, low dissolved oxygen
135	TPBBCSC-M-S	Card Sound Canal	SW	high	0.28			0.025	0.026	0.28	0.28	6.61	0.036	low total nitrogen and higher dissolved oxygen - denitrofication likely prodominates
136	TPBBCSC-M-S	Card Sound Canal	SW	low	0.204	0.0765	0.00257	0.005	0.0616	0.266	0.266	5.26	0.036	low total nitrogen - denitrofication or anammox likely prodominates
137	TPBBCSC-M-M	Card Sound Canal	SW	high	0.2			0.025	0.07	0.2	0.225	6.35	0.036	low total nitrogen and higher dissolved oxygen - denitrofication likely prodominates
138	TPBBCSC-M-M	Card Sound Canal	SW	low	0.2	0.072	0.00229	0.005	0.0579	0.254	0.254	5.54	0.036	low total nitrogen and higher dissolved oxygen - denitrofication likely prodominates
139	TPBBCSC-M-B	Card Sound Canal	SW	high	0.2			0.025	0.114	0.2	0.225	4.89	0.036	low total nitrogen - denitrofication or anammox likely prodominates
140	TPBBCSC-M-B	Card Sound Canal	SW	low	0.336	0.0822	0.00272	0.005	0.0662	0.402	0.402	5	0.036	low total nitrogen - denitrofication or anammox likely prodominates
141	TPBBCSC-Mid-S	Card Sound Canal	SW	high	0.225	0.05	0.00158	0.025	0.0349	0.26	0.26	5.89	0.036	low total nitrogen and higher dissolved oxygen - denitrofication likely prodominates
142	TPBBCSC-Mid-S	Card Sound Canal	SW	low	0.26	0.0552	0.00169	0.011	0.0443	0.304	0.315	5.56	0.036	low total nitrogen and higher dissolved oxygen - denitrofication likely prodominates
143	TPBBCSC-Mid-M	Card Sound Canal	SW	high	0.2	0.125	0.00268	0.025	0.0993	0.254	0.254	5.32	0.036	low total nitrogen - denitrofication or anammox likely prodominates
144	TPBBCSC-Mid-M	Card Sound Canal	SW	low	0.23	0.0924	0.00248	0.00588	0.0739	0.304	0.31	4.68	0.036	low total nitrogen - denitrofication or anammox likely prodominates
145	TPBBCSC-Mid-B	Card Sound Canal	SW	high				0.025	1.71	0.958	0.958	0.09	9.5	high ammonia, low dissolved oxygen
146	TPBBCSC-Mid-B	Card Sound Canal	SW	low	0.909	1.03	0.00368	0.025	0.801	1.71	1.71	0.21	8.81	high ammonia, low dissolved oxygen
147	TPBBSW-4-S	open Bay	SW	high	0.2	0.05	0.000017	0.025	0.0266	0.2	0.225	7.07	0.036	low total nitrogen and higher dissolved oxygen - denitrofication likely prodominates
148	TPBBSW-4-S	open Bay	SW	low	0.2	0.05	0.000017	0.005	0.026	0.2	0.225	6.35	0.045	low total nitrogen and high dissolved oxygen - denitrofication likely prodominates
149	TPBBSW-4-M	open Bay	SW	high	0.26	0.05	0.00171	0.025	0.0321	0.292	0.292	7.07	0.131	low total nitrogen and high dissolved oxygen - denitrofication likely prodominates
150	TPBBSW-4-M	open Bay	SW	low	0.2	0.05	0.000017	0.005	0.026	0.2	0.225	7.01	0.036	low total nitrogen and high dissolved oxygen - denitrofication likely prodominates
151	TPBBSW-4-B	open Bay	SW	high	0.2	0.05	0.000017	0.025	0.026	0.2	0.225	6.7	0.036	low total nitrogen and high dissolved oxygen - denitrofication likely prodominates
152	TPBBSW-4-B	open Bay	SW	low	0.22	0.05	0.000017	0.005	0.026	0.22	0.22	6.42	0.036	low total nitrogen and high dissolved oxygen - denitrofication likely prodominates
153	TPBBSW-14-S	open Bay	SW	high	0.2	0.05	0.000017	0.025	0.0288	0.2	0.225	6.77	0.036	low total nitrogen and high dissolved oxygen - denitrofication likely prodominates
154	TPBBSW-14-S	open Bay	SW	low	0.244	0.05	0.000017	0.005	0.026	0.244	0.244	6.79	0.036	low total nitrogen and high dissolved oxygen - denitrofication likely prodominates
155	TPBBSW-14-M	open Bay	SW	high	0.2	0.05	0.00193	0.025	0.0313	0.2	0.225	6.99	0.036	low total nitrogen and high dissolved oxygen - denitrofication likely prodominates
156	TPBBSW-14-M	open Bay	SW	low	0.2	0.05	0.000017	0.005	0.026	0.2	0.2	6.61	0.036	low total nitrogen and high dissolved oxygen - denitrofication likely prodominates
157	TPBBSW-14-B	open Bay	SW	high	0.263	0.0773	0.00411	0.025	0.0635	0.326	0.326	6.8	0.036	low total nitrogen and high dissolved oxygen - denitrofication likely prodominates
158	TPBBSW-14-B	open Bay	SW	low	0.2	0.05	0.000017	0.005	0.026	0.2	0.2	6.69	0.036	low total nitrogen and high dissolved oxygen - denitrofication likely prodominates
159	TPBBSW-6	Turning Basin	PW	--	1.55	1.7	0.00693	0.025	1.33	2.88	2.88	1.61	6.41	high ammonia
160	TPBBSW-10	open Bay	PW	--	0.466	0.238	0.00077	0.025	0.186	0.652	0.652	2.53	2.8	
161	TPBBSW-PTB1	Turning Basin	PW	--	3.58	0.312	0.00208	0.025	0.244	3.82	3.82	3.67	8.38	high organic nitrogen
162	TPBBSW-7M	Turtle Point	PW	--	0.2	9.36	0.0382	0.025	7.31	6.8	6.8	1.34	128	high ammonia, highly reducing conditions - DNRA possible.
163	TPBBSW-7Tt	open Bay	PW	--	0.2	0.0562	0.00034	0.025	0.044	0.212	0.212	0.89	9.8	low total nitrogen - denitrofication or anammox likely prodominates
164	S20-Weir-Dwn	S-20	PW	--				0.025	0.524			0.82	9.41	high ammonia
165	TPBBS20-B	south canal	PW	--	0.2	20.1	0.0487	0.0533	15.7	15.8	15.9	0.46	429	high ammonia, highly reducing conditions - DNRA possible.
166	TPBBSW-4	open Bay	PW	--	0.596	0.173	0.00186	0.025	0.136	0.732	0.732	2.75	6.2	
167	TPBBSW-14	open Bay	PW	--	0.2	0.469	0.00542	0.025	0.369	0.568	0.568	1.42	5.48	