

FPL Turkey Point Uprate Monitoring Project  
September 2015 Semiannual Sampling Event  
SDG: Qtr 3 2015 SW

Method	Parameter	Units	TPBBSW-3B		TPBBSW-4B		TPBBSW-5B		091015-DUP1		TPSWC-1T		TPSWC-1B		TPSWC-2T		TPSWC-2B		TPSV
			09/10/2015		09/10/2015		09/10/2015		09/10/2015		09/14/2015		09/14/2015		09/14/2015		09/14/2015		09/14/2015
Field - FT1400	Temperature	°C	31.98		31.93		31.34				30.89		29.52		30.55		30.26		30.42
Field - FT1100	pH	SU	8.09		7.93		7.77				7.59		7.53		7.70		7.62		7.81
Field - FT1500	Dissolved Oxygen	mg/L	6.36		5.28		3.92				4.92		5.58		4.47		3.34		3.98
Field - FT1200	Specific Conductance	µS/cm	58277		58665		61990				592		568		712		651		637
Field - FT1600	Turbidity	NTU	0.62		0.32		1.93				0.47		2.11		1.47		1.61		1.50
200.7	Silica, dissolved	mg/L																	
6010B	Calcium	mg/L	430		435	J	464		456		56.1		72.3		52.2		47.1		47.7
6010B	Magnesium	mg/L	1220	J	1230	J-	1300	J	1280		7.11		5.65		7.73		7.54		7.09
6010B	Potassium	mg/L	483		475	J	520		518		4.99		6.54		3.62		3.56		3.55
6010B	Sodium	mg/L	11000		11000	J	11900		11600		52.7		35.9		76.7		70.8		67.6
6010B	Boron	mg/L	5.13		5.08		5.49		5.46		0.063		0.060		0.055		0.056		0.059
6010B	Strontium	mg/L	8.41		8.29		9.12		9.10		0.595		0.764		0.645		0.594		0.583
300.0_28D	Bromide	mg/L	72.3		73.0	J	77.9		77.7		0.260	Q	0.196	Q	0.327	Q	0.367	Q	0.264
300.0_28D	Chloride	mg/L	19600		21700	J	23200		23900		92.9		57.9		155		123		109
SM4500 F C	Fluoride	mg/L	1.03	J	0.990	J-	1.01	J	1.03		0.0900	I	0.160		0.110		0.100		0.100
300.0_28D	Sulfate	mg/L	2900		2910	J	3110		3130		7.92		17.2		5.02		3.80		3.27
SM4500 NH3 G	Total Ammonia	mg/L as N	0.100	U	0.100	U	0.100	U	0.100	U	0.114	I	0.100	U	0.147	I	0.159	I	0.164
DEP SOP - calc	Ammonium ion (NH <sub>4</sub> <sup>+</sup> )	mg/L	0.0500	U	0.0500	U	0.0500	U			0.142		0.0500	U	0.181		0.198		0.200
DEP SOP - calc	Unionized NH <sub>3</sub>	mg/L	0.000017	U	0.000017	U	0.000017	U			0.004460		0.000017	U	0.007180		0.006380		0.010100
353.2	Nitrate/Nitrite	mg/L as N	0.0250	U	0.0250	U	0.0250	U	0.0250	U	0.0695		0.244		0.0250	U	0.0250	U	0.0250
351.2	TKN	mg/L	0.506		0.618		0.592		0.632		0.996		0.580		1.02		1.40		1.22
calc	TN	mg/L	0.53		0.64		0.62		0.66		1.07		0.82		1.05		1.43		1.25
SM4500 P E	ortho-Phosphate	mg/L	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.00210
365.1	Total Phosphorus (P)	mg/L	0.00300	U	0.00300	U	0.00300	U	0.00300	U	0.00300	U	0.00300	U	0.00300	U	0.00300	U	0.00300
2320B	Alkalinity	mg/L	131		131	J	145		145		154		195		122		116		120
2320B	Bicarbonate Alkalinity	mg/L as HCO <sub>3</sub>	128		149	J	177		177		178		227		149		142		146
SM4500 S2 F	Sulfide	mg/L	0.360	U	0.360	U	0.360	U	0.360	U	0.360	U	0.360	U	0.360	U	0.360	U	0.360
2540C	Total Dissolved Solids	mg/L																	
PSS-78	Salinity	*	38.67		38.96		41.51				0.28	J	0.27	J	0.34	J	0.31	J	0.31
USGS	Tritium	pCi/L																	

NOTE: Laboratory results are reported with 3 digits although only the first 2 are significant figures.

\*\*\* Result not reported

FPL Turkey Point Uprate Monitoring Project  
September 2015 Semiannual Sampling Event  
SDG: Qtr 3 2015 SW

Parameter	Units	/C-3T		TPSWC-3B	
		/2015		09/14/2015	
Temperature	°C			30.60	
pH	SU			7.72	
Dissolved Oxygen	mg/L			4.08	
Specific Conductance	µS/cm			636	
Turbidity	NTU			1.27	
Silica, dissolved	mg/L				
Calcium	mg/L			48.4	
Magnesium	mg/L			7.20	
Potassium	mg/L			3.58	
Sodium	mg/L			68.2	
Boron	mg/L			0.060	
Strontium	mg/L			0.588	
Bromide	mg/L	Q		0.264	Q
Chloride	mg/L			133	
Fluoride	mg/L			0.100	
Sulfate	mg/L			3.41	
Total Ammonia	mg/L as N	I		0.158	I
Ammonium ion (NH <sub>4</sub> <sup>+</sup> )	mg/L			0.195	
Unionized NH <sub>3</sub>	mg/L			0.008090	
Nitrate/Nitrite	mg/L as N	UJ-		0.0250	U
TKN	mg/L			1.20	
TN	mg/L			1.23	
ortho-Phosphate	mg/L	U		0.00210	U
Total Phosphorus (P)	mg/L	U		0.00300	U
Alkalinity	mg/L			121	
Bicarbonate Alkalinity	mg/L as HCO <sub>3</sub>			147	
Sulfide	mg/L	U		0.360	U
Total Dissolved Solids	mg/L				
Salinity	*	J		0.31	J
Tritium	pCi/L				





FPL Turkey Point Uprate Monitoring Project  
September 2015 Semiannual Sampling Event  
SDG: Qtr 3 2015 SW

		TPSWCCS-5T	
Parameter	Units	09/08/2015	
Temperature	°C	34.74	
pH	SU	7.84	
Dissolved Oxygen	mg/L	2.93	
Specific Conductance	µS/cm	102801	J
Turbidity	NTU	121.0	
Silica, dissolved	mg/L	11.3	
Calcium	mg/L	859	
Magnesium	mg/L	2190	
Potassium	mg/L	952	
Sodium	mg/L	20000	
Boron	mg/L	10.2	
Strontium	mg/L	19.1	
Bromide	mg/L	137	J
Chloride	mg/L	40900	J
Fluoride	mg/L	1.03	J
Sulfate	mg/L	5200	J
Total Ammonia	mg/L as N	0.100	U
Ammonium ion (NH <sub>4</sub> <sup>+</sup> )	mg/L	0.0500	U
Unionized NH <sub>3</sub>	mg/L	0.000017	U
Nitrate/Nitrite	mg/L as N	0.0250	U
TKN	mg/L	7.42	
TN	mg/L	7.45	
ortho-Phosphate	mg/L	0.00210	UJ
Total Phosphorus (P)	mg/L	0.0695	
Alkalinity	mg/L	200	J
Bicarbonate Alkalinity	mg/L as HCO <sub>3</sub>	244	J
Sulfide	mg/L	1.80	U
Total Dissolved Solids	mg/L		
Salinity	*	74.59	J
Tritium	pCi/L		



**FPL Turkey Point Uprate Monitoring Project**  
**September 2015 Semiannual Sampling Event**  
SDG: Qtr 3 2015 SW

Notes

Laboratory results are reported with 3 digits although only the first 2 are significant figures.

\* PSS-78 salinity is unitless.

\*\* Schemel, L.E., 2001. Simplified conversions between specific conductance and salinity units for use with data from monitoring stations. Interagency Ecological Program for the San Francisco Estuary Newsletter. 14(1):17-18.

\*\*\*result not reported in L4

Sample 090115-Dup is a duplicate of TPSWC-5T.

Sample 090215-Dup is a duplicate of TPSWCCS-2T.

Sample 091015-Dup is a duplicate of TPBBSW-5B.

Key

°C = Degrees Celsius.

µg/L = Microgram(s) per liter.

µmho/cm = Micromho(s) per centimeter.

µS/cm = MicroSiemen(s) per centimeter.

ABS = Absolute value.

HCO<sub>3</sub> = Bicarbonate ion.

DEP SOP = Department of Environmental Protection Standard Operating Procedure.

mg/L = Milligram(s) per liter.

N.A. = Not applicable.

NH<sub>3</sub> = Ammonia.

NH<sub>4</sub><sup>+</sup> = Ammonium ion.

NTU = Nephelometric Turbidity Units(s).

pCi/L = PicoCuries per liter.

ppt = Parts per thousand.

PQL = Practical Quantitation Limit.

PSS-78 = Practical Salinity Scale of 1978.

RPD = Relative Percent Difference.

SC = Specific conductance.

SDG = Sample Delivery Group.

SU = Standard Unit(s).

TDS = Total Dissolved Solids.

TKN = Total Kjeldahl nitrogen.

TN = Total nitrogen.

TPBBSW = Turkey Point Biscayne Bay Surface Water

TPSWC = Turkey Point Surface Water Canal

TPSWID = Turkey Point Surface Water Interceptor Ditch

TPSWCCS = Turkey Point Surface Water Cooling Canal System