

# Shark River Slough Fourth Quarter 2018

Alternative **Method 1**: S12s + [(S333 + S355A + S355B) - S334]

Total Phosphorus (TP) Tracking Data Report (Provisional flow data from October 1, 2018)

Sampling Event Date	TP Concentration (mg/L)							Daily Mean Flow (cfs)								S334 Adjusted Flow (cfs)			Event FWMC			
	S12A	S12B	S12C	S12D	S333	S355A	S355B	S12A	S12B	S12C	S12D	S333	S355A	S355B	S333 + S355A&B	S334	S333	S355A	S355B	Loads	Total Flow	(ppb)
11/6/2017	0.007	0.006	0.006	0.008	0.007			1100	984	1540	2080	630.99		0	631	628	3	0	0			
11/13/2017	0.005	0.004	0.004	0.006	0.007	0.006	0.011	952	828	1320	1790	858.25		0	858	867		0	0	24.09	4,890	4.9
11/20/2017	0.005	0.004	0.004	0.006	0.005			784	690	1170	1510	859.58		0	860	868		0	0			
11/27/2017	0.005	0.004	0.003	0.006	0.006			644	587	1050	1220	1416.48		0	1,416	926	491	0	0	18.98	3,992	4.8
12/4/2017	0.005	0.006	0.004	0.006	0.005			492	465	862	980	1716.25		0	1,716	1016	700	0	0			
12/11/2017	0.004	0.005	0.004	0.006	0.006	0.004	0.006	379	377	752	900	1494.65		0	1,495	632	862	0	0	16.98	3,270	5.2
12/18/2017	0.004	0.005	0.003	0.006	0.007			300	306	649	750	1496.93		0	1,497	733	763	0	0			
12/26/2017	0.005	0.004	0.005	0.006	0.007			237	248	561	628	1490.03		0	1,490	740	750	0	0	14.00	2,424	5.8
1/2/2018	0.010		0.005	0.006	0.007			0	0	550	607	1489.08		0	1,489	769	721	0	0			
1/8/2018	0.005		0.004	0.005	0.004	0.005	0.004	0	0	610	725	262.12		0	262	258	4	0	0	6.08	1,339	4.5
1/16/2018	0.010		0.006	0.007	0.006			0	0	563	766	257.76		0	258	255	3	0	0			
1/22/2018	0.008	0.010	0.005	0.005	0.006	0.003	0.003	0	0	525	708	232.46		0	232	137	96	0	0	6.74	1,329	5.1
1/29/2018	0.011		0.006	0.006	0.006			0	0	260	702	122.09		0	122	0	122	0	0			
2/5/2018	0.012		0.007	0.008	0.008			0	0	0	509	414.58		0	415	0	415	0	0	6.88	924	7.4
2/12/2018	0.013		0.009	0.010	0.010			0	0	0	363	505.59		0	506	90	416	0	0			
2/19/2018	0.015		0.008	0.009	0.010	0.010	0.013	0	0	0	341	585.84		0	586	137	449	0	0	6.77	790	8.6
2/26/2018	0.017			0.011	0.011			0	0	0	0	453.89		0	454	130	324	0	0			
3/5/2018	0.021		0.010	0.014	0.012	0.012		0	0	0	0	291.23		0	291	123	168	0	0	2.35	168	14.0
3/12/2018	0.019		0.009	0.009	0.009			0	0	0	0	186.84		0	187	154	33	0	0			
3/19/2018	0.023		0.011	0.012	0.012			0	0	0	0	156.38		0	156	156	0	0	0	0.01	0	12.0
3/26/2018	0.024		0.011	0.012	0.012			0	0	0	0	162.75		0	163	129	33	0	0			
4/2/2018	0.032		0.014	0.014	0.014			0	0	0	0	158.97		0	159	134	25	0	0	0.35	25	14.0
4/9/2018	0.038		0.015	0.024	0.024			0	0	0	0	154.08		0	154	147	7	0	0			
4/16/2018	0.039	0.026	0.018	0.015	0.018	0.067	0.074	0	0	0	0	274.48		0	274	258	17	0	0	0.30	17	18.0
4/23/2018	0.047		0.020	0.030	0.030			0	0	0	0	296.34		0	296	279	17	0	0			
4/30/2018	0.044		0.024	0.032	0.032			0	0	0	0	346.43		0	346	324	22	0	0	0.71	22	32.0
5/7/2018	0.046		0.024	0.032	0.032			0	0	0	0	353.60		0	354	331	23	0	0			
5/14/2018	0.042		0.030	0.023	0.023	0.060	0.123	0	0	0	0	346.96		0	347	313	33	0	0	0.77	33	23.0
5/21/2018	0.024		0.020	0.018	0.018			0	0	0	0	0.00		0	0	0	0	0	0			
5/29/2018	0.030		0.012	0.014	0.053	0.012	0.012	0	0	434	611	715.03		0	715	0	715	0	0	51.66	1,760	29.4
6/4/2018	0.023		0.009	0.012	0.046	0.012	0.012	0	0	496	677	661.79		0	662	0	662	0	0			
6/11/2018	0.020		0.010	0.012	0.016	0.012	0.012	0	0	585	774	619.66		0	620	0	620	0	0	25.05	1,979	12.7
6/18/2018	0.015		0.007	0.010	0.009			0	0	674	856	564.72		0	565	0	565	0	0			
6/25/2018	0.018		0.008	0.012	0.009			0	0	760	941	440.68		0	441	0	441	0	0	21.34	2,142	10.0
7/2/2018	0.014		0.011	0.008	0.008			0	0	792	927	1104.99		0	1,105	0	1,105	0	0			
7/9/2018	0.009	0.009	0.007	0.009	0.007	0.010	0.010	0	0	677	771	995.83		0	996	0	996	0	0	18.65	2,444	7.6
7/16/2018	0.007	0.005	0.009	0.009	0.008			244	244	565	671	945.31		0	945	0	945	0	0			
7/23/2018	0.006	0.007	0.008	0.009	0.010			196	200	481	622	987.44		0	987	0	987	0	0	21.90	2,486	8.8
7/30/2018	0.006	0.005	0.007	0.008	0.011			197	196	467	660	939.39		0	939	0	939	0	0			
8/6/2018	0.006	0.006	0.007	0.008	0.008	0.007	0.006	155	161	410	546	1179.97	154	1,334	0	1,180	0	154	19.50	2,606	7.5	
8/13/2018	0.006	0.006	0.007	0.008	0.007			180	185	464	657	775.44	124	900	0	775	0	124				
8/20/2018	0.007	0.007	0.008	NOB <sup>1</sup>	0.008		0.006	167	176	442	663	700.92	123	824	0	701	0	123	12.28	1,609	7.6	
8/27/2018	G <sup>2</sup>	G <sup>2</sup>	G <sup>2</sup>	G <sup>2</sup>	G <sup>2</sup>			161	172	427	692	796.51	135	931	0	797	0	135				
9/4/2018	0.006	0.004	0.006	0.007	0.006	0.005	0.005	263	264	588	1010	219.56	140	359	0	220	0	140	15.25	2,484	6.1	
9/10/2018	0.004	0.005	0.006	0.008	0.007			249	248	565	927	441.65	174	615	0	442	0	174				
9/17/2018	0.006	0.004	0.006	0.008	0.007			259	256	576	940	0.00	0	0	0	0	0	0	13.55	2,031	6.7	
9/24/2018	0.005	0.004	0.005	0.007	0.006			225	215	486	673	1115.11		0	1,115	0	1,115	0	0			
10/1/2018	0.005	NOB <sup>2</sup>	0.005	0.007	0.007	0.007	0.010	79	86	446	669	977.42		0	977	0	977	0	0	14.15	2,171	6.5
10/8/2018	0.011		0.006	0.008	0.008			0	0	497	727	691.53	113	804	0	692	0	113				
10/15/2018	0.010		0.007	0.008	0.007		0.006	0	0	472	684	815.64	169	984	0	816	0	169	15.50	2,140	7.2	
10/22/2018	0.011		0.006	0.008	0.009			0	0	391	547	1076.68		0	1,077	0	1,077	0	0			
10/30/2018	0.011			0.009	0.009			0	0	0	0	491.48		0	491	0	491	0	0	4.42	491	9.0
11/5/2018	0.010			0.010	0.010			0	0	0	0	118.37		0	118	0	118	0	0			
11/13/2018	0.042			0.043	0.008	0.009		0	0	0	0	0.00		0	0	0	0	0	0.00	0		
11/19/2018	0.014			0.012	0.011			0	0	0	0	52.57		0	53	46	7	0	0			
11/26/2018	0.016			0.008	0.011			0	0	0	0	109.98		0	110	109	1	0	0	0.01	1	11.0
12/3/2018	0.010	0.013	0.011	0.007	0.007			0	0	0	0	239.12		0	239	230	9	0	0			
12/11/2018	0.014			0.009	0.009	0.008	0.006	0	0	0	0	247.57		0	248	234	14	0	0	0.12	14	9.0
12/17/2018	0.014			0.007	0.009			0	0	0	0	244.44		0	244	230	14	0	0			
12/27/2018	0.019			0.008	0.008			0	0	0	0	240.85		0	241	229	12	0	0	0.09	12	8.0

Blue shaded and **bolded** dates are the bi-weekly compliance sampling events and corresponding flow-weighted mean concentrations (FWMC).  
 Light green shaded cell indicates there was flow at the site on the sampling day.  
 S355B flows represent gates and temporary pumps.

Notes:  
 1. NOB: No Bottle; sampling area inaccessible due to large floating mats of vegetation. No clear, representative area to collect sample. No sample collected.  
 2. G: Analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value.  
 3. NOB: No Bottle; all gates were closed at the time of the sampling visit. No sample collected.  
 4. Total of all flow at S12s + S333 + S355A + S355B.  
 5. The bi-weekly sampling events and flow data are used to calculate FWMC.

# Shark River Slough Fourth Quarter 2018

Alternative **Method 2**: S12s + [(S333 + S355A + S355B + S356) - S334]  
 Total Phosphorus (TP) Tracking Data Report (Provisional flow data from October 1, 2018)

Sampling Event Date	TP Concentration (mg/L)								Daily Mean Flow (cfs)								S334 Adjusted Flow (cfs)				FWMC: S12s + [(S333+S355A&B)-S334]				
	S12A	S12B	S12C	S12D	S333	S355A	S355B	S356	S12A	S12B	S12C	S12D	S333	S355A	S355B	S356	S333+S355A&B+S356	S334	S333	S355A	S355B	S356	Loads	Total Flow	FWMC
11/6/2017	0.007	0.006	0.006	0.008	0.007			0.009	1,100	984	1,540	2,080	631		0	0	631	628	3	0	0	0			
11/13/2017	0.005	0.004	0.004	0.006	0.007	0.006	0.011	0.012	952	828	1,320	1,790	858		0	0	858	867		0	0	0	24.09	4,890	4.9
11/20/2017	0.005	0.004	0.004	0.006	0.005			0.012	784	690	1,170	1,510	860		0	0	860	868		0	0	0			
11/27/2017	0.005	0.004	0.003	0.006	0.006			0.010	644	587	1,050	1,220	1,416		0	0	1,416	926	491	0	0	0	18.98	3,992	4.8
12/4/2017	0.005	0.006	0.004	0.006	0.005			0.014	492	465	862	980	1,716		0	0	1,716	1016	700	0	0	0			
12/11/2017	0.004	0.005	0.004	0.006	0.006	0.004	0.006	0.008	379	377	752	900	1,495		0	0	1,495	632	862	0	0	0	16.98	3,270	5.2
12/18/2017	0.004	0.005	0.003	0.006	0.007			0.007	300	306	649	750	1,497		0	0	1,497	733	763	0	0	0			
12/26/2017	0.005	0.004	0.005	0.006	0.007			0.007	237	248	561	628	1,490		0	0	1,490	740	750	0	0	0	14.00	2,424	5.8
1/2/2018	0.010		0.005	0.006	0.007			0.008	0	0	550	607	1,489		0	0	1,489	769	721	0	0	0			
1/8/2018	0.005		0.004	0.005	0.004	0.005	0.004	0.006	0	0	610	725	262		0	0	262	258	4	0	0	0	6.08	1,339	4.5
1/16/2018	0.010		0.006	0.007	0.006			0.007	0	0	563	766	258		0	0	258	255	3	0	0	0			
1/22/2018	0.008	0.010	0.005	0.005	0.006	0.003	0.003	0.005	0	0	525	708	232		0	6	238	137	99	0	0	2	6.77	1,334	5.1
1/29/2018	0.011		0.006	0.006	0.006			0.006	0	0	260	702	122		0	46	168	0	122	0	0	46			
2/5/2018	0.012		0.007	0.008				0.008	0	0	0	509	415		0	0	415	0	415	0	0	0	6.88	924	7.4
2/12/2018	0.013		0.009	0.010				0.009	0	0	0	363	506		0	0	506	90	416	0	0	0			
2/19/2018	0.015		0.008	0.009	0.010	0.010	0.013	0.010	0	0	0	341	586		0	0	586	137	449	0	0	0	6.77	790	8.6
2/26/2018	0.017				0.011			0.010	0	0	0	0	454		0	0	454	130	324	0	0	0			
3/5/2018	0.021			0.010	0.014	0.012	0.012	0.012	0	0	0	0	291		0	0	291	123	168	0	0	0	2.35	168	14.0
3/12/2018	0.019			0.009	0.009			0.011	0	0	0	0	187		0	0	187	154	33	0	0	0			
3/19/2018	0.023			0.011	0.012			0.014	0	0	0	0	156		0	0	156	156	0	0	0	0	0.01	0	12.0
3/26/2018	0.024			0.011	0.012			0.012	0	0	0	0	163		0	0	163	129	33	0	0	0			
4/2/2018	0.032			0.014	0.014			0.016	0	0	0	0	159		0	0	159	134	25	0	0	0	0.35	25	14.0
4/9/2018	0.038			0.015	0.024			0.018	0	0	0	0	154		0	0	154	147	7	0	0	0			
4/16/2018	0.039	0.026	0.018	0.015	0.018	0.067	0.074	0.019	0	0	0	0	274		0	0	274	258	17	0	0	0	0.30	17	18.0
4/23/2018	0.047			0.020	0.030			0.019	0	0	0	0	296		0	0	296	279	17	0	0	0			
4/30/2018	0.044			0.024	0.032			0.022	0	0	0	0	346		0	7	354	324	29	0	0	1	0.93	29	31.8
5/7/2018	0.046			0.024	0.032			0.022	0	0	0	0	354		0	0	354	331	23	0	0	0			
5/14/2018	0.042			0.030	0.023	0.060	0.123	0.027	0	0	0	0	347		0	0	347	313	33	0	0	0	0.77	33	23.0
5/21/2018	0.024			0.020	0.018			0.009	0	0	0	0	0		0	72	72	0	0	0	0	72			
5/29/2018	0.030		0.012	0.014	0.053			0.009	0	0	434	611	715		0	0	715	0	715	0	0	0	51.66	1,760	29.4
6/4/2018	0.023		0.009	0.012	0.046			0.008	0	0	496	677	662		0	0	662	0	662	0	0	0			
6/11/2018	0.020		0.010	0.012	0.016	0.012	0.012	0.010	0	0	585	774	620		0	0	620	0	620	0	0	0	25.05	1,979	12.7
6/18/2018	0.015		0.007	0.010	0.009			0.011	0	0	674	856	565		0	0	565	0	565	0	0	0			
6/25/2018	0.018		0.008	0.012	0.009			0.011	0	0	760	941	441		0	0	441	0	441	0	0	0	21.34	2,142	10.0
7/2/2018	0.014		0.011	0.008	0.008			0.011	0	0	792	927	1105		0	0	1,105	0	1,105	0	0	0			
7/9/2018	0.009	0.009	0.007	0.009	0.007	0.010	0.010	0.009	0	0	677	771	996		0	0	996	0	996	0	0	0	18.65	2,444	7.6
7/16/2018	0.007	0.005	0.009	0.009	0.008			0.010	244	244	565	671	945		0	0	945	0	945	0	0	0			
7/23/2018	0.006	0.007	0.008	0.009	0.010			0.008	196	200	481	622	987		0	0	987	0	987	0	0	0	21.90	2,486	8.8
7/30/2018	0.006	0.005	0.007	0.008	0.011			0.008	197	196	467	660	939		0	0	939	0	939	0	0	0			
8/6/2018	0.006	0.006	0.007	0.008	0.008	0.007	0.006	0.008	155	161	410	546	1,180	154	0	0	1,334	0	1,180	0	154	0	19.50	2,606	7.5
8/13/2018	0.006	0.006	0.007	0.008	0.007			0.008	180	185	464	657	775	124	0	0	900	0	775	0	124	0			
8/20/2018	0.007	0.007	0.008	NOB <sup>1</sup>	0.008		0.006	0.007	167	176	442	663	701	123	398	1,222	0	123	398	0	123	398	15.07	2,007	7.5
8/27/2018	G <sup>2</sup>	G <sup>2</sup>	G <sup>2</sup>	G <sup>2</sup>	G <sup>2</sup>			G <sup>2</sup>	161	172	427	692	797	135	267	1,198	0	135	267	0	135	267			
9/4/2018	0.006	0.004	0.006	0.007	0.006	0.005	0.005	0.004	263	264	588	1010	220	140	399	759	0	140	399	15.53	2,664	5.8			
9/10/2018	0.004	0.005	0.006	0.008	0.007			0.005	249	248	565	927	442	174	265	880	0	174	265	0	174	265			
9/17/2018	0.006	0.004	0.006	0.008	0.007			0.004	259	256	576	940	0	0	265	265	0	0	0	0	265	14.61	2,296	6.4	
9/24/2018	0.005	0.004	0.005	0.007	0.006			0.006	225	215	486	673	1115	0	255	1,370	0	1115	0	0	255				
10/1/2018	0.005	NOB <sup>3</sup>	0.005	0.007	0.007	0.007	0.010	0.004	79	86	446	669	977.42	0	396	1,373	0	977	0	0	396	15.73	2,567	6.1	
10/8/2018	0.011		0.006	0.008	0.008			0.006	0	0	497	727	691.53	113	400	1,204	0	113	400	0	113	400			
10/15/2018	0.010		0.007	0.008	0.007		0.006	0.006	0	0	472	684	815.64	169	335	1,319	0	816	0	169	335	17.51	2,475	7.1	
10/22/2018	0.011		0.006	0.008	0.009			0.005	0	0	391	547	1076.68	131	131	1,208	0	1077	0	0	131				
10/30/2018	0.011			0.009	0.009			0.009	0	0	0	0	491.48		0	491	0	491	0	0	0	4.42	491	9.0	
11/5/2018	0.010			0.010	0.009			0.009	0	0	0	0	118.37		0	118	0	118	0	0	0				
11/13/2018	0.042			0.013	0.008	0.008	0.009	0.008	0	0	0	0	0.00		0	0	0	0	0	0	0	0	0.00	0	
11/19/2018	0.014			0.012	0.013			0.013	0	0	0	0	52.57		0	53	46	0	0	0	0				
11/26/2018	0.016			0.008	0.011	0.013	0.013	0.013	0	0	0	0	109.98		0	110	109	1	0	0	0	0.01	1	11.0	
12/3/2018	0.010	0.013	0.011	0.007	0.007			0.012	0	0	0	0	239.12		0	239	230	9	0	0	0				
12/11/2018	0.014			0.009	0.009	0.008	0.006	0.011	0	0	0	0	247.57		0	248	234	14	0	0	0	0.12	14	9.0	
12/17/2018	0.014			0.007	0.009			0.012	0	0	0	0	244.44		0	244	230	14	0	0	0				
12/27/2018	0.019			0.008	0.008			0.011	0	0	0	0	240.85		0	241	229	12	0	0</					