

# Shark River Slough First Quarter 2019

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)
2/5/2018	0.012			0.007	0.008			0	0	0	509	415	0	0	415	0	415	0	0	6.88	924	7.4
2/12/2018	0.013			0.009	0.010			0	0	0	363	506	0	0	506	90	416	0	0			
2/19/2018	0.015			0.008	0.009	0.010	0.013	0	0	0	341	586	0	0	586	137	449	0	0	6.77	790	8.6
2/26/2018	0.017			0.011				0	0	0	0	454	0	0	454	130	324	0	0			
3/5/2018	0.021			0.010	0.014	0.012	0.012	0	0	0	0	291	0	0	291	123	168	0	0	2.35	168	14.0
3/12/2018	0.019			0.009	0.009			0	0	0	0	187	0	0	187	154	33	0	0			
3/19/2018	0.023			0.011	0.012			0	0	0	0	156	0	0	156	156	0	0	0	0.01	0	12.0
3/26/2018	0.024			0.011	0.012			0	0	0	0	163	0	0	163	129	33	0	0			
4/2/2018	0.032			0.014	0.014			0	0	0	0	159	0	0	159	134	25	0	0	0.35	25	14.0
4/9/2018	0.038			0.015	0.024			0	0	0	0	154	0	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	0	0	274	258	17	0	0	0.30	17	18.0
4/23/2018	0.047			0.020	0.030			0	0	0	0	296	0	0	296	279	17	0	0			
4/30/2018	0.044			0.024	0.032			0	0	0	0	346	0	0	346	324	22	0	0	0.71	22	32.0
5/7/2018	0.046			0.024	0.032			0	0	0	0	354	0	0	354	331	23	0	0			
5/14/2018	0.042			0.030	0.023	0.060	0.123	0	0	0	0	347	0	0	347	313	33	0	0	0.77	33	23.0
5/21/2018	0.024			0.020	0.018			0	0	0	0	0	0	0	0	0	0	0	0			
5/29/2018	0.030		0.012	0.014	0.053			0	0	434	611	715	0	0	715	0	715	0	0	51.66	1,760	29.4
6/4/2018	0.023		0.009	0.012	0.046			0	0	496	677	662	0	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	620	0	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	565	0	0	565	0	565	0	0			
6/25/2018	0.018		0.008	0.012	0.009			0	0	760	941	441	0	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	1105	0	0	1105	0	1105	0	0			
7/9/2018	0.009	0.009	0.007	0.009	0.007	0.010	0.010	0	0	677	771	996	0	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	0	0	945	0	945	0	0			
7/23/2018	0.006	0.007	0.008	0.009	0.010			196	200	481	622	987	0	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	0	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	1180	0	154	1334	0	1180	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	0	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	701	0	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	797	0	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	220	0	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	442	0	174	615	0	442	0	174			
9/17/2018	0.006	0.004	0.006	0.008	0.007			259	256	576	940	0	0	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	0	0	1115	0	1115	0	0			
10/1/2018	0.005	NOB <sup>3</sup>	0.005	0.007	0.007	0.007	0.010	79	86	446	669	977	0	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	692	0	113	804	0	692	0	113			
10/15/2018	0.010		0.007	0.008	0.007		0.006	0	0	472	684	816	0	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	1077	0	0	1077	0	1077	0	0			
10/30/2018	0.011			0.009				0	0	0	0	491	0	0	491	0	491	0	0	4.42	491	9.0
11/5/2018	0.010			0.010				0	0	0	0	118	0	0	118	0	118	0	0			
11/13/2018	0.042			0.013	0.008	0.009		0	0	0	0	0	0	0	0	0	0	0	0	0.00	0	
11/19/2018	0.014			0.012				0	0	0	0	53	0	0	53	46	7	0	0			
11/26/2018	0.016		0.011	0.008	0.011			0	0	0	0	110	0	0	110	109	1	0	0	0.01	1	11.0
12/3/2018	0.010	0.013	0.011	0.007				0	0	0	0	239	0	0	239	230	9	0	0			
12/11/2018	0.014			0.009	0.009	0.008	0.006	0	0	0	0	248	0	0	248	234	14	0	0	0.12	14	9.0
12/17/2018	0.014		0.007	0.009	0.009			0	0	0	0	244	0	0	244	230	14	0	0			
12/27/2018	0.019			0.008	0.008			0	0	0	0	241	0	0	241	229	12	0	0	0.09	12	8.0
1/2/2019	0.019			0.008	0.008			0	0	0	0	241	0	0	241	230	11	0	0			
1/7/2019	0.020			0.010	0.010	0.013	0.012	0	0	0	0	242	0	0	242	224	18	0	0	0.18	18	10.0
1/14/2019	0.015			0.010	0.010			0	0	0	0	240	0	0	240	225	15	0	0			
1/22/2019	0.017			0.010	0.010			0	0	0	0	235	0	0	235	220	14	0	0	0.14	14	10.0
1/28/2019	0.019			0.009	0.009			0	0	0	0	169	0	0	169	151	19	0	0			
2/4/2019	0.016			0.010	0.010			0	0	0	0	253	0	0	253	224	30	0	0	0.30	30	10.0
2/12/2019	0.022			0.010	0.010			0	0	0	0	364	0	0	364	225	138	0	0			
2/18/2019	0.023			0.011	0.011	0.013		0	0	0	0	489	0	0	489	229	261	0	0	2.87	261	11.0
2/25/2019	0.021			0.016	0.016			0	0	0	0	1118	0	0	1118	257	861	0	0			
3/5/2019	0.018			0.017	0.017			0	0	0	0	1223	0	0	1223	236	987	0	0	16.78	987	17.0
3/11/2019	0.015			0.012	0.012			0	0	0	0	893	0	0	893	249	644	0	0			
3/18/2019	0.014		NOB <sup>3</sup>	0.012	0.017	0.019		0	0	230	0	36	0	0	36	111	0	0	0.00	0		
3/25/2019	0.016		NOB <sup>3</sup>	0.012	0.013	0.014		0	0	232	0	247	0	0	247	246	1	0	0			

Period	Total Flow <sup>4</sup>	12-Month Moving FWMC <sup>5</sup>	12-Month Moving Long-term Limit	Percent of Sampling Events Greater than 10 ppb	
	(kac-ft)	(ppb)	(ppb)	Guideline (%)	Observed (%)
February 2018 - January 2019	824.2	9.5	8.8	45.7	36.0
March 2018 - February 2019	814.8	9.7	8.8	46	40.0
April 2018 - March 2019	845.4	9.9	8.7	45.2	37.5

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; No flow was observed 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 First Quarter 2019

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		
	[Detailed data rows from 2/5/2018 to 3/25/2019 with numerical values for concentration, flow, and FWMC. Values are color-coded: blue for compliance events, light green for flow, white for other data.]																										
Period	Total Flow <sup>4</sup>								12-Month Moving FWMC <sup>5</sup>				12-Month Moving Long-term Limit				Percent of Sampling Events Greater than 10 ppb										
	(kac-ft)								(ppb)				(ppb)				Guideline (%)	Observed (%)									
February 2018 - January 2019	867.8								9.3				8.6				44.6	36.0									
March 2018 - February 2019	858.4								9.4				8.6				44.9	40.0									
April 2018 - March 2019	889.0								9.6				8.5				44.1	37.5									

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, collection blank, or trip blank, and the blank value was greater than 10% of the associated sample value.
- 3. NOB: No Bottle; No flow was observed at the time of the sampling visit. No sample collected.
- 4. Total of all flow at S12s + S333 + S355A + S355B + S356.
- 5. The bi-weekly sampling events and flow data are used to calculate flow-weighted mean concentrations.