

Shark River Slough Second 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)
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 ¹	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 ²	G ²	G ²	G ²	G ²			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 ³	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			0.008	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	0.007			0	0	0	0	239	0	0	239	230	9	0	0			
12/11/2018	0.014				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	0	0	0	244	0	0	244	230	14	0	0			
12/27/2018	0.019				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	0	0	0	241	0	0	241	230	11	0	0			
1/7/2019	0.020				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	0	0	0	240	0	0	240	225	15	0	0			
1/22/2019	0.017				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	0	0	0	169	0	0	169	151	19	0	0			
2/4/2019	0.016				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	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	0	0	0	1118	0	0	1118	257	861	0	0			
3/5/2019	0.018				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	0	0	0	893	0	0	893	249	644	0	0			
3/18/2019	0.014			NOB ³	0.012	0.017	0.019	0	0	0	0	36	0	0	36	111	-	0	0	0.00	0	
3/25/2019	0.016			NOB ³	0.012	0.013	0.014	0	0	0	0	232	0	0	247	246	1	0	0			
4/1/2019	0.030				0.015			0	0	0	0	658	0	0	658	261	397	0	0	5.96	397	15.0
4/8/2019	0.018				0.014			0	0	0	0	511	0	0	511	241	270	0	0			
4/15/2019	0.018				0.012			0	0	0	0	594	0	0	594	262	331	0	0	3.98	331	12.0
4/22/2019	0.024				0.012			0	0	0	0	531	0	0	531	254	277	0	0			
4/29/2019	0.026				0.012	0.021	0.029	0	0	0	0	549	0	0	549	309	240	0	0	2.88	240	12.0
5/6/2019	0.019				0.013			0	0	0	0	285	0	0	285	251	34	0	0			
5/13/2019	0.018				0.012			0	0	0	0	402	0	0	402	138	264	0	0	3.17	264	12.0
5/20/2019	0.021				0.031			0	0	0	0	1161	0	0	1161	255	906	0	0			
5/28/2019	0.024				0.019	0.020	0.028	0	0	0	0	640	0	0	640	356	285	0	0	5.41	285	19.0
6/3/2019	0.031				0.013			0	0	0	0	492	0	0	492	332	161	0	0			
6/10/2019	0.025				0.016			0	0	0	0	66	0	0	66	58	8	0	0	0.13	8	16.0
6/17/2019	0.020				0.009			0	0	0	0	672	0	0	672	0	672	0	0			
6/24/2019	0.016				0.019	0.013	0.022	0	0	0	0	1227	0	0	1227	0	1227	0	0	23.31	1,227	19.0

Period	Total Flow ⁴	12-Month Moving FWMC ⁵	12-Month Moving Long-term Limit	Percent of Sampling Events Greater than 10 ppb	
	(kac-ft)	(ppb)	(ppb)	Guideline (%)	Observed (%)
May 2018 - April 2019	863.1	10.0	8.6	44.7	37.5
June 2018 - May 2019	859.7	8.8	8.6	44.8	37.5
July 2018 - June 2019	790.3	8.9	9.0	46.6	41.7

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.

"-" in flow data indicates the value was negative and zeroed out.

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 Second 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	S333 + S355A&B + S356	S12A	S12B	S12C	S12D	S333	S355A	S355B	S356	S333	S355A	S355B	S356	S333	S355A	S355B	S356	Loads	Total Flow
5/7/2018	0.046			0.024	0.032			0.022	0	0	0	0	354	0	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	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	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	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	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	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	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	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	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	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	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	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	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	1180	0	154	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	0	124	0	900	0	775	0	124	0					
8/20/2018	0.007	0.007	0.008	NOB ¹	0.008		0.006	0.007	167	176	442	663	701	0	123	398	1,222	0	701	0	123	398	15.07	2,007	7.5		
8/27/2018	G ²	G ²	G ²	G ²	G ²			G ²	161	172	427	692	797	0	135	267	1,198	0	797	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	0	140	399	759	0	220	0	140	399	16.85	2,884	5.8		
9/10/2018	0.004	0.005	0.006	0.008	0.007			0.005	249	248	565	927	442	0	174	265	880	0	442	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	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	0	255	1,370	0	1,115	0	0	255					
10/1/2018	0.005	NOB ³	0.005	0.007	0.007	0.007	0.010	0.004	79	86	446	669	977	0	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	692	0	113	400	1,204	0	692	0	113	400					
10/15/2018	0.010		0.007	0.008	0.007		0.006	0.006	0	0	472	684	816	0	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	1077	0	0	131	1,208	0	1,077	0	0	131					
10/30/2018	0.011				0.009			0.009	0	0	0	0	0	0	0	0	491	0	491	0	0	0	4.42	491	9.0		
11/5/2018	0.010				0.010			0.009	0	0	0	0	118	0	0	0	118	0	118	0	0	0					
11/13/2018	0.042			0.013	0.008	0.009		0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0			
11/19/2018	0.014			0.012	0.013	0.013	0.013	0.013	0	0	0	0	53	0	0	0	53	46	7	0	0	0					
11/26/2018	0.016			0.008	0.011	0.013	0.013	0.013	0	0	0	0	110	0	0	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	0.012	0.012	0	0	0	0	239	0	0	0	239	230	9	0	0	0					
12/11/2018	0.014			0.009	0.008	0.008	0.006	0.011	0	0	0	0	248	0	0	0	248	234	14	0	0	0	0.12	14	9.0		
12/17/2018	0.014			0.007	0.009	0.012	0.012	0.012	0	0	0	0	244	0	0	0	244	230	14	0	0	0					
12/27/2018	0.019			0.008	0.008	0.011	0.011	0.011	0	0	0	0	241	0	0	0	241	229	12	0	0	0	0.09	12	8.0		
1/2/2019	0.019			0.008	0.008	0.013	0.013	0.013	0	0	0	0	241	0	0	0	241	230	11	0	0	0					
1/7/2019	0.020			0.010	0.013	0.012	0.012	0.012	0	0	0	0	242	0	0	0	242	224	18	0	0	0	0.18	18	10.0		
1/14/2019	0.015			0.010	0.010	0.016	0.016	0.016	0	0	0	0	240	0	0	0	240	225	15	0	0	0					
1/22/2019	0.017			0.010	0.009	0.015	0.015	0.015	0	0	0	0	235	0	0	0	235	220	14	0	0	0	0.14	14	10.0		
1/28/2019	0.019			0.009	0.009	0.015	0.015	0.015	0	0	0	0	169	0	0	0	169	151	19	0	0	0					
2/4/2019	0.016			0.010	0.010	0.014	0.014	0.014	0	0	0	0	253	0	0	0	254	224	30	0	0	0	0.30	30	10.0		
2/12/2019	0.022			0.010	0.011	0.018	0.018	0.018	0	0	0	0	364	0	0	0.4	364	225	138	0	0	0.2					
2/18/2019	0.023			0.011	0.013	0.016	0.016	0.016	0	0	0	0	489	0	0	0	489	229	261	0	0	0	2.87	261	11.0		
2/25/2019	0.021			0.016	0.017	0.016	0.016	0.016	0	0	0	0	1118	0	0	10	1,128	257	863	0	0	8					
3/5/2019	0.018			0.017	0.017	0.014	0.014	0.014	0	0	0	0	1223	0	0	0	1,223	236	987	0	0	0	16.78	987	17.0		
3/11/2019	0.015			0.012	0.012	0.014	0.014	0.014	0	0	0	0	893	0	0	0	893	249	644	0	0	0					
3/18/2019	0.014		NOB ³	0.012	0.017	0.019	0.019	0.019	0	0	0	230	0	0	0	36	111	-	0	0	0	0	0.00	0			
3/25/2019	0.016		NOB ³	0.012	0.013	0.014	0.014	0.014	0	0	0	232	0	0	0	247	246	1	0	0	0	0					
4/1/2019	0.030			0.015	0.015	0.018	0.018	0.018	0	0	0	0	658	0	0	0	658	261	397	0	0	0	5.96	397	15.0		
4/8/2019	0.018			0.014	0.014	0.014	0.014	0.014	0	0	0	0	511	0	0	0	511	241	270	0	0	0					
4/15/2019	0.018			0.012	0.012	0.016	0.016	0.016	0	0	0	0	594	0	0	0	594	262	331	0	0	0	3.98	331	12.0		
4/22/2019	0.024			0.012	0.012	0.016	0.016	0.016	0	0	0	0	531	0	0	0	531	254	277	0	0	0					
4/29/2019	0.026			0.012	0.021	0.029	0.029	0.029	0	0	0	0	549	0	0	0	549	309	240	0	0	0	2.88	240	12.0		
5/6/2019	0.019			0.013	0.013	0.024	0.024	0.024	0	0	0	0	285	0	0	0	285	251	34	0	0	0					
5/13/2019	0.018			0.012	0.012	0.014	0.014	0.014	0	0	0	0	402	0	0	0	402	138	264	0	0	0	3.17	264	12.0		
5/20/2019	0.021			0.031	0.031	0.014	0.014	0.014	0	0	0	0	1161	0	0	0	1,161	255	906	0	0	0					
5/28/2019	0.024			0.019	0.020	0.028	0.028	0.028	0	0	0	0	640	0	0	0	640	356	285	0	0	0	5.41	285	19.0		
6/3/2019	0.031			0.013	0.013	0.019	0.019	0.019	0	0	0	0	492	0	0	0	492	332	161	0	0	0					
6/10/2019	0.025			0.016	0.016	0.017	0.017	0.017	0	0	0	0	66	0	0	0	66	58	8	0	0	0	0.13	8	16.0		
6/17/2019	0.020			0.009	0.009	0.008	0.008	0.008	0	0	0	0	672	0	0	223	895										