

Shark River Slough Second Quarter 2018

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

Total Phosphorus (TP) Tracking Provisional Data Report

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)
5/1/2017	0.029				0.016	0.054	0.089	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0	
5/8/2017	0.027				0.014			0	0	0	0	0	0	0	0	0	0	0	0	0.06	3	16.0
5/15/2017	0.029				0.016			0	0	0	0	55	0	0	55	52	3	0	0	0.08	3	27.0
5/22/2017	0.035				0.018			0	0	0	0	56	0	0	56	50	7	0	0			
5/30/2017	0.033				0.027			0	0	0	0	32	0	0	32	29	3	0	0			
6/5/2017	0.036				0.024			0	0	0	0	0	0	0	0	0	0	0	0			
6/12/2017	0.032		0.011	0.024	0.087	0.033	0.034	0	0	424	560	926	0	0	926	0	926	0	0	98.67	1,910	51.7
6/19/2017	0.020		0.010	0.011	0.013			0	0	616	789	959	0	0	959	312	647	0	0			
6/26/2017	0.014		0.010	0.009	0.017			0	0	741	890	1392	0	0	1,392	956	436	0	0	22.83	2,067	11.0
7/5/2017	0.006	0.005	0.004	0.008	0.006			381	388	761	904	1341	0	0	1,341	912	430	0	0			
7/10/2017	0.008	0.006	0.006	0.007	0.008	0.018	0.010	358	366	766	931	1284	0	0	1,284	914	370	0	0	19.14	2,791	6.9
7/17/2017	0.007	0.005	0.005	0.007	0.014			476	456	917	1160	612	0	0	612	467	145	0	0			
7/24/2017	0.008	0.005	0.005	0.008	0.008		0.006	529	499	969	1230	244	0	0	244	249	-	0	0	21.41	3,227	6.6
8/1/2017	0.007	0.006	0.006	0.008	0.008			546	514	964	1250	224	0	0	224	229	-	0	0			
8/7/2017	0.007	0.005	0.007	0.008	0.007	0.008	0.006	479	464	861	1160	229	0	0	229	226	4	0	0	21.00	2,968	7.1
8/14/2017	0.006	0.005	0.006	0.007	0.007			429	425	797	1040	651	0	0	651	657	-	0	0			
8/21/2017	0.005	0.005	0.006	0.006	0.007		0.005	357	359	702	857	1042	0	0	1,042	1,043	-	0	0	13.29	2,275	5.8
8/28/2017	0.005	0.005	0.006	0.008	0.007			417	415	823	1040	119	0	0	119	126	-	0	0			
9/5/2017	0.006	0.006	0.005	0.008	0.008		0.006	350	355	704	790	679	0	0	679	689	-	0	0	14.07	2,199	6.4
9/13/2017	0.011	0.007	0.006	0.010				783	672	1190	1370	0	0	0	0	0	0	0	0			
9/14/2017					0.011			817	710	1240	1420	0	0	0	0	0	0	0	0			
9/18/2017	0.009	0.007	0.006	0.006	0.010	0.008	0.008	838	751	1,290	1,460	927	0	0	927	0	927	0	0	38.57	5,266	7.3
9/25/2017	0.008	0.006	0.006	0.005	0.007			868	769	1,320	1,530	1,221	0	0	1,221	466	754	0	0			
10/2/2017	0.006	0.006	0.005	0.008	0.009	0.007	0.006	1171	1068	1080	1469	409	0	0	409	237	171	0	0	32.13	4,959	6.5
10/9/2017	0.008	0.006	0.006	0.007	0.007			1398	1290	1070	1548	99	0	0	99	106	-	0	0			
10/16/2017	0.008	0.005	0.004	0.006	0.007	0.006	0.012	1378	1272	982	1628	377	0	0	377	377	1	0	0	31.09	5,261	5.9
10/23/2017	0.008	0.007	0.005	0.008	0.007			1281	1185	1154	1554	440	0	0	440	436	4	0	0			
10/30/2017	0.007	0.006	0.005	0.007	0.007			1347	1259	1117	1694	117	0	0	117	112	5	0	0	34.46	5,422	6.4
11/6/2017	0.007	0.006	0.006	0.008	0.007			1195	1117	1052	1540	631	0	0	631	628	3	0	0			
11/13/2017	0.005	0.004	0.004	0.006	0.007	0.006	0.011	1014	956	957	1335	858	0	0	858	867	-	0	0	20.73	4,262	4.9
11/20/2017	0.005	0.004	0.004	0.006	0.005			845	794	1152	1179	860	0	0	860	868	-	0	0			
11/27/2017	0.005	0.004	0.003	0.006	0.006			695	629	822	1132	1416	0	0	1,416	926	491	0	0	18.19	3,769	4.8
12/4/2017	0.005	0.006	0.004	0.006	0.005			559	511	909	1014	1716	0	0	1,716	1016	700	0	0			
12/11/2017	0.004	0.005	0.004	0.006	0.006	0.004	0.006	458	441	768	855	1495	0	0	1,495	632	862	0	0	17.41	3,384	5.1
12/18/2017	0.004	0.005	0.003	0.006	0.007			374	369	901	1047	1497	0	0	1,497	733	763	0	0			
12/26/2017	0.005	0.004	0.005	0.006	0.007			301	306	821	955	1490	0	0	1,490	740	750	0	0	17.81	3,133	5.7
1/2/2018	0.010		0.005	0.006	0.007			0	0	576	914	1489	0	0	1,489	769	721	0	0			
1/8/2018	0.005		0.004	0.005	0.004	0.005	0.004	0	0	639	1014	262	0	0	262	258	4	0	0	7.64	1,657	4.6
1/16/2018	0.010		0.006	0.007	0.006			0	0	507	817	258	0	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	468	736	232	0	0	232	137	96	0	0	6.59	1,300	5.1
1/29/2018	0.011		0.006	0.006	0.006			0	0	238	703	122	0	0	122	0	122	0	0			
2/5/2018	0.012		0.007	0.008				0	0	0	505	415	0	0	415	0	415	0	0	6.85	920	7.5
2/12/2018	0.013		0.009	0.010				0	0	0	372	506	0	0	506	90	416	0	0			
2/19/2018	0.015		0.008	0.009	0.010	0.010	0.013	0	0	0	352	586	0	0	586	137	449	0	0	6.86	801	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	0.014	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	0.43	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	413	622	715	0	0	715	0	715	0	0	51.56	1750	29.5
6/4/2018	0.023		0.009	0.012	0.046			0	0	451	704	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	508	823	620	0	0	620	0	620	0	0	24.87	1951	12.7
6/18/2018	0.015		0.007	0.010	0.009			0	0	660	850	565	0	0	565	0	565	0	0			
6/25/2018	0.018		0.008	0.012	0.009			0	0	713	937	441	0	0	441	0	441	0	0	20.91	2091	10.0

Period	Total Flow ¹		12-Month Moving FWMC ²		12-Month Moving Long-term Limit		Percent of Sampling Events Greater than 10 ppb	
	(kac-ft)		(ppb)		(ppb)		Guideline	Observed
May 1, 2017 - April 30, 2018	1,852.6		7.8		7.6		40.1%	34.6%
June 1, 2017 - May 31, 2018	1,892.2		8.5		7.6		40.1%	34.6%
July 1, 2017 - June 30, 2018	1,892.4		7.2		7.6		40.1%	30.8%

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 weir and temporary pumps.

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

Notes:

1. Total of all flow at S12s + S333 + S355A + S355B.

2. The bi-weekly sampling events and flow data are used to calculate FWMC.

Shark River Slough Second Quarter 2018

Alternative **Method 2**: S12s + [(S333 + S355A + S355B + S356) - S334]

Total Phosphorus (TP) Tracking Provisional Data Report

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
5/1/2017	0.029				0.016	0.054	0.089	0.018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0	
5/8/2017	0.027				0.014			0.010	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
5/15/2017	0.029				0.016			0.014	0	0	0	0	55	0	0	0	55	52	3	0	0	0	0.06	3	16.0
5/22/2017	0.035				0.018			0.015	0	0	0	0	56	0	0	0	56	50	7	0	0	0			
5/30/2017	0.033				0.027			0.018	0	0	0	0	32	0	0	4	35	29	6	0	0	1	0.18	7	26.1
6/5/2017	0.036				0.024			0.013	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
6/12/2017	0.032		0.011	0.024	0.087	0.033	0.034	0.018	0	0	424	560	926	0	0	0	926	0	926	0	0	0	98.67	1,910	51.7
6/19/2017	0.020		0.010	0.011	0.013			0.012	0	0	616	789	959	0	0	0	959	312	647	0	0	0			
6/26/2017	0.014		0.010	0.009	0.017			0.022	0	0	741	890	1392	0	0	0	1,392	956	436	0	0	0	22.83	2,067	11.0
7/5/2017	0.006	0.005	0.004	0.008	0.006			0.015	381	388	761	904	1341	0	0	0	1,341	912	430	0	0	0			
7/10/2017	0.008	0.006	0.006	0.007	0.008	0.018	0.010	0.016	358	366	766	931	1284	0	0	0	1,284	914	370	0	0	0	19.14	2,791	6.9
7/17/2017	0.007	0.005	0.005	0.007	0.014			0.007	476	456	917	1160	612	0	0	0	612	467	145	0	0	0			
7/24/2017	0.008	0.005	0.005	0.008	0.008		0.006	0.008	529	499	969	1,230	244	0	0	0	244	249	-	0	0	0	21.41	3,227	6.6
8/1/2017	0.007	0.006	0.006	0.008	0.008			0.008	546	514	964	1,250	224	0	0	3	227	229	-	0	0	0			
8/7/2017	0.007	0.005	0.007	0.008	0.007	0.008	0.006	0.008	479	464	861	1180	229	0	0	0	229	226	4	0	0	0	21.00	2,968	7.1
8/14/2017	0.006	0.005	0.006	0.007	0.007			0.007	429	425	797	1040	651	0	0	0	651	657	-	0	0	0			
8/21/2017	0.005	0.006	0.006	0.006	0.007		0.005	0.011	357	359	702	857	1042	0	0	0	1,042	1043	-	0	0	0	13.29	2,275	5.8
8/28/2017	0.005	0.005	0.006	0.008	0.007			0.008	417	415	823	1040	119	0	0	0	119	126	-	0	0	0			
9/5/2017	0.006	0.006	0.005	0.008	0.008		0.006	0.012	350	355	704	790	679	0	0	0	679	689	-	0	0	0	14.07	2,199	6.4
9/13/2017	0.011	0.007	0.006	0.010				0.005	783	672	1190	1370	0	0	0	152	152	0	0	0	0	152			
9/14/2017					0.011				817	710	1240	1420	0	0	0	343	343	0	0	0	0	343			
9/18/2017	0.009	0.007	0.006	0.006	0.010	0.008	0.008	0.007	838	751	1290	1460	927	0	0	0	927	0	927	0	0	0	38.57	5,266	7.3
9/25/2017	0.008	0.006	0.006	0.005	0.007			0.008	868	769	1320	1530	1221	0	0	0	1,221	466	754	0	0	0			
10/2/2017	0.006	0.006	0.005	0.008	0.009	0.007	0.006	0.007	1171	1068	1080	1469	409	0	0	0	409	237	171	0	0	0	32.13	4,959	6.5
10/9/2017	0.008	0.006	0.006	0.007	0.007			0.014	1398	1290	1070	1548	99	0	0	0	99	106	-	0	0	0			
10/16/2017	0.008	0.005	0.004	0.006	0.007	0.006	0.012	0.009	1378	1272	982	1628	377	0	0	0	377	1	0	0	0	0	31.09	5,261	5.9
10/23/2017	0.008	0.007	0.005	0.008	0.007			0.010	1281	1185	1154	1554	440	0	0	0	440	436	4	0	0	0			
10/30/2017	0.007	0.006	0.005	0.007	0.007			0.010	1347	1259	1117	1694	117	0	0	0	117	112	5	0	0	0	34.46	5,422	6.4
11/6/2017	0.007	0.006	0.006	0.008	0.007			0.009	1195	1117	1052	1540	631	0	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	1014	956	957	1335	858	0	0	0	858	867	-	0	0	0	20.73	4,262	4.9
11/20/2017	0.005	0.004	0.004	0.006	0.005			0.012	845	794	1152	1179	860	0	0	0	860	868	-	0	0	0			
11/27/2017	0.005	0.004	0.003	0.006	0.006			0.010	695	629	822	1132	1416	0	0	0	1,416	926	491	0	0	0	18.19	3,769	4.8
12/4/2017	0.005	0.006	0.004	0.006	0.005			0.014	559	511	909	1014	1716	0	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	458	441	768	855	1495	0	0	0	1,495	632	862	0	0	0	17.41	3,384	5.1
12/18/2017	0.004	0.005	0.003	0.006	0.007			0.007	374	369	901	1047	1497	0	0	0	1,497	733	763	0	0	0			
12/26/2017	0.005	0.004	0.005	0.006	0.007			0.007	301	306	821	955	1490	0	0	0	1,490	740	750	0	0	0	17.81	3,133	5.7
1/2/2018	0.010		0.005	0.006	0.007			0.008	0	0	576	914	1489	0	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	639	1014	262	0	0	0	262	258	4	0	0	0	7.64	1,657	4.6
1/16/2018	0.010		0.006	0.007	0.006			0.007	0	0	507	817	258	0	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	468	736	232	0	0	6	238	137	99	0	0	2	6.63	1,305	5.1
1/29/2018	0.011		0.006	0.006	0.006			0.006	0	0	238	703	122	0	0	46	168	0	122	0	0	46			
2/5/2018	0.012		0.007	0.008				0.008	0	0	505	415	0	0	0	0	415	0	415	0	0	0	6.85	920	7.5
2/12/2018	0.013		0.009	0.010				0.009	0	0	372	506	0	0	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	352	586	0	0	0	586	137	449	0	0	0	6.86	801	8.6
2/26/2018	0.017				0.011			0.010	0	0	0	0	454	0	0	0	454	130	324	0	0	0			
3/5/2018	0.021		0.010	0.014	0.012	0.012	0.012	0.012	0	0	0	0	291	0	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	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	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	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	9	168	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	6	160	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	4	278	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	3	299	279	17	0	0	0			
4/30/2018	0.044		0.024	0.032				0.022	0	0	0	0	346	0	0	3	350	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	3	357	331	23	0	0	0			
5/14/2018	0.042		0.030	0.023	0.060	0.123	0.027	0.027	0	0	0	0	347	0	0	3	350	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	5	5	0	0	0	0	72			
5/29/2018	0.030		0.012	0.014	0.053			0.009	0	0	413	622	715	0	0	6	721	0	715	0	0	0	51.56	1750	29.5
6/4/2018	0.023		0.009	0.012	0.046			0.008	0	0	451	704	662	0	0	7	669	0	662	0	0	0			
6/11/2018	0.020		0.010	0.012	0.016	0.012	0.																		