



SETTLEMENT AGREEMENT REPORT

WY2018 Annual
Shark River Slough
Compliance

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SUMMARY

Month	Geometric Mean TP Concentration (ppb)	Long-Term Level (ppb)	Mean Stage (feet NGVD29)	Number of Samples	
Arthur R. Marshall Loxahatchee National Wildlife Refuge					
Jul 2018	7.5	10.1	16.41	13	
Aug 2018	7.0	10.8	16.27	12	
Sep 2018	6.0	9.0	16.64	14	
12-Month Period Ending	Total Flow (kac-ft)	12-Month TP FWMC (ppb)	Long-Term Limit (ppb)	Percent of Sampling Events Greater than 10 ppb	
				Guideline	Observed
Everglades National Park – Shark River Slough					
Jul 2018	1,889.8 (1,895.4)	7.3 (7.3)	7.6 (7.6)	40.1 (40.1)	30.8 (30.8)
Aug 2018	1,844.6 (1,859.1)	7.3 (7.3)	7.6 (7.6)	40.1 (40.1)	30.8 (30.8)
Sep 2018	1,731.8 (1,761.0)	7.3 (7.3)	7.6 (7.6)	40.1 (40.1)	30.8 (30.8)
Everglades National Park – Taylor Slough and Coastal Basins					
Jul 2018	476.3 (555.2, 536.5)	6.1 (6.0, 5.9)	11.0	53.1	3.7 (3.7, 3.7)
Aug 2018	448.6 (527.5, 508.8)	6.0 (5.9, 5.8)	11.0	53.1	3.8 (3.8, 3.8)
Sep 2018	413.3 (500.4, 481.7)	6.2 (6.0, 5.8)	11.0	53.1	3.8 (3.8, 3.8)

SRS - Method 1 (left values) computed as S12s+(S333+S355A+S355B-S334) and Method 2 (values in parentheses) computed as S12s+(S333+S355A+S355B+S356-S334)

Neither method excludes S334 flow from the total flow for long-term limit calculations.

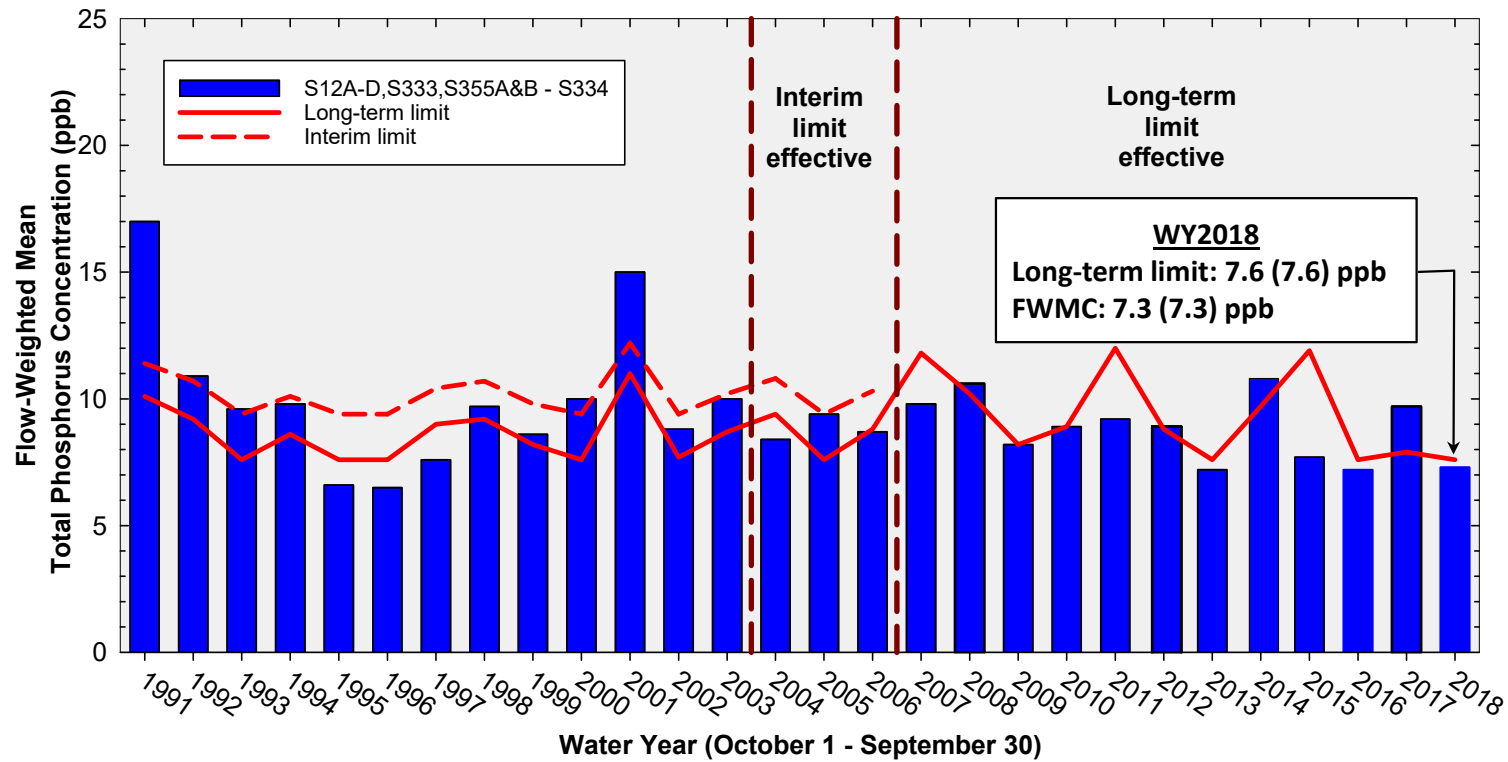
TS and CB - Method 1 (left values) computed as S332D+S18C, Method 2 (first values in parentheses) computed as S332D+S18C+G737, and Method 3 as (S332D-S332DX1-S328)+S328+G737+S18C.

Shark River Slough TP Concentration Compliance Tracking

12-Month Period	Total Flow (kac-ft)	Flow-Weighted Mean TP Concentration (ppb)	Long-Term Limit (ppb) <i>Effective 12/31/2006</i>	Percent of Sampling Events Greater than 10 ppb	
				Guideline	Observed
Aug 2017 - Jul 2018	1,889.8 (1,895.4)	7.3 (7.3)	7.6 (7.6)	40.1 (40.1)	30.8 (30.8)
Sep 2017 - Aug 2018	1,844.6 (1,859.1)	7.3 (7.3)	7.6 (7.6)	40.1 (40.1)	30.8 (30.8)
Oct 2017 - Sep 2018	1,731.8 (1,761.0)	7.3 (7.3)	7.6 (7.6)	40.1 (40.1)	30.8 (30.8)

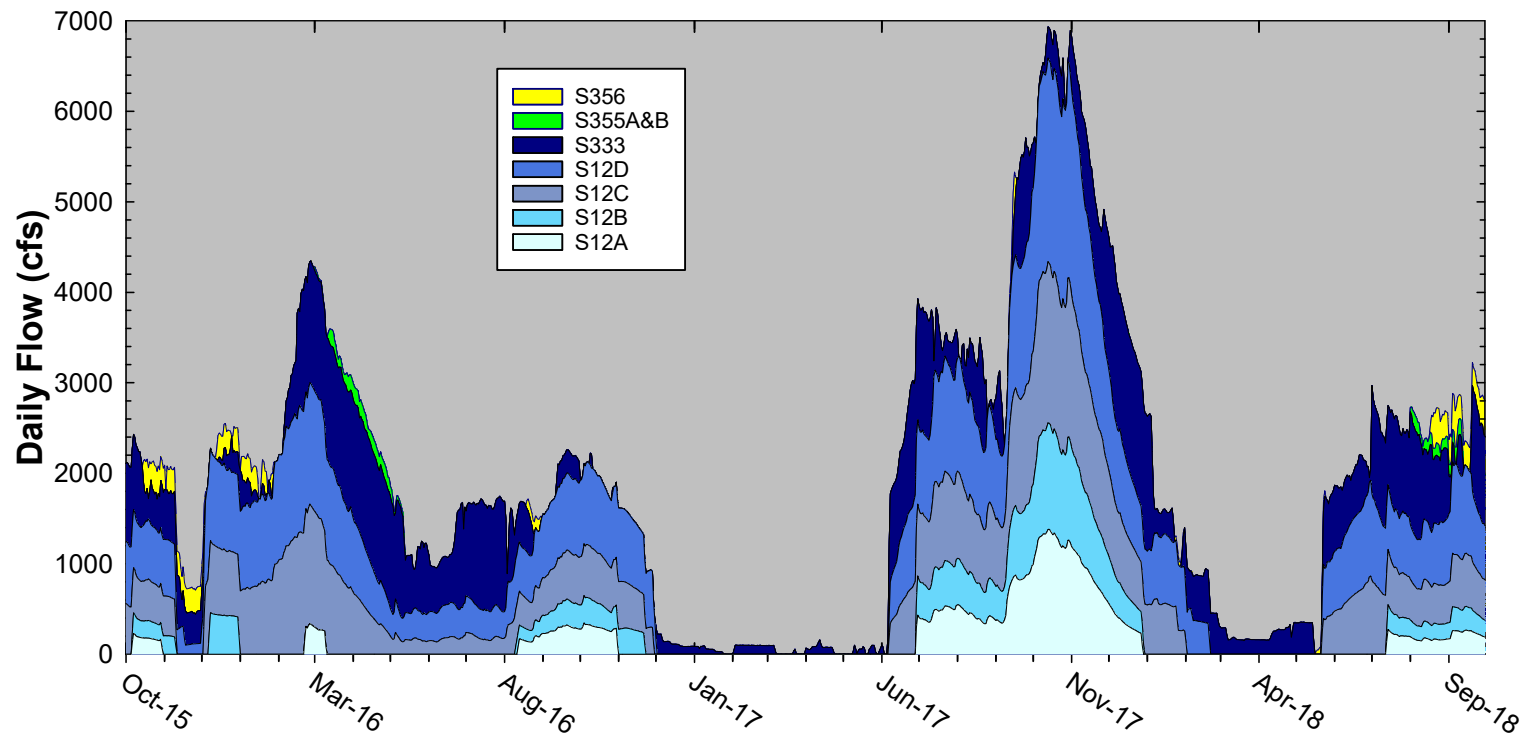
Method 1 (left values) FWMC computed as S12s+(S333+S355A&B-S334) and Method 2 (in parenthesis) FWMC computed as S12s+(S333+S355A&B+S356-S334) using all flow and TP grabs on bi-weekly compliance sampling dates. Neither method excludes S334 flow from the flow for long-term limit calculations.

Annual Flow-weighted Mean Concentrations Inflows to ENP through Shark River Slough

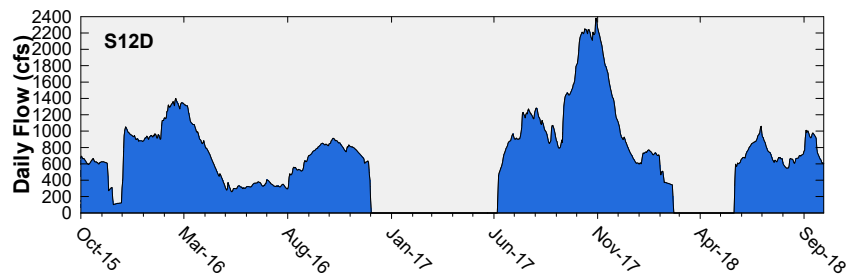
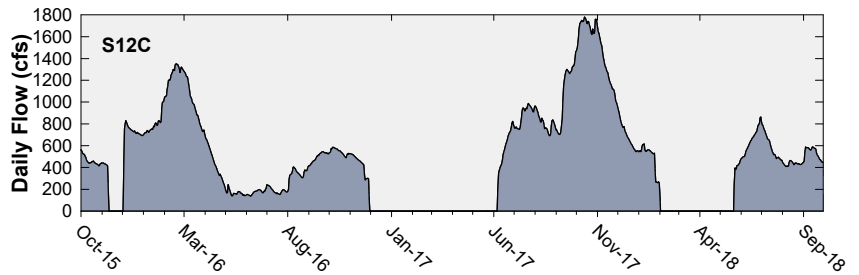
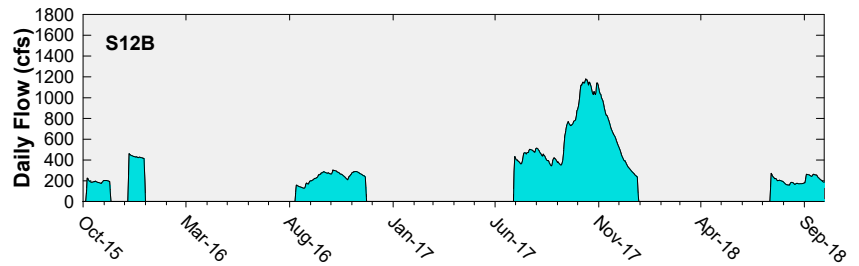
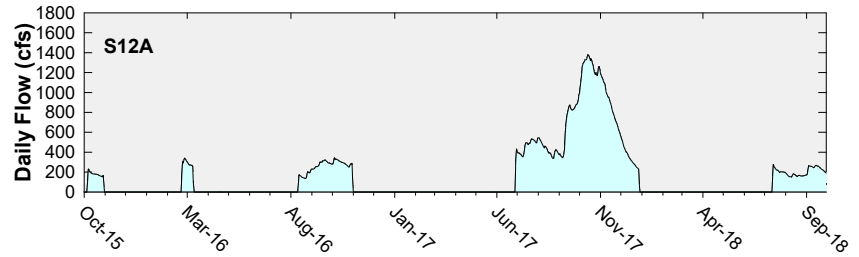


Water year FWMC compared to the TP interim and long-term limits

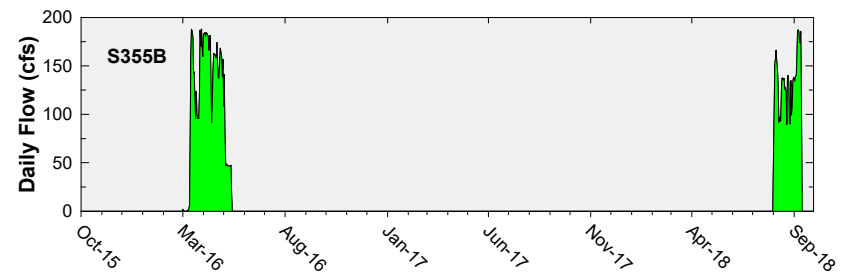
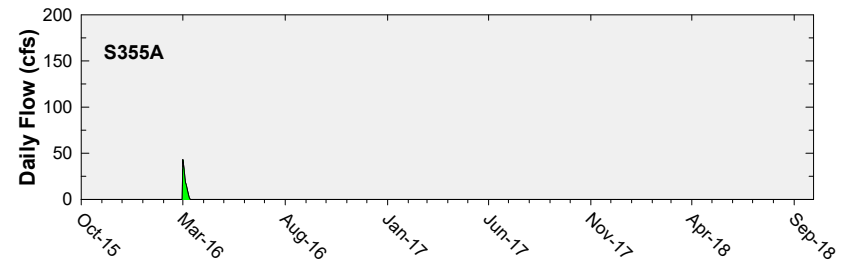
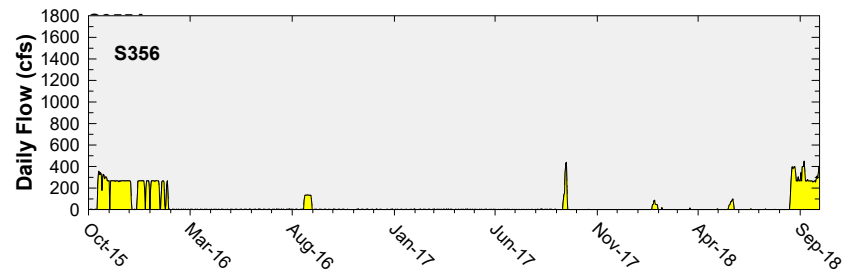
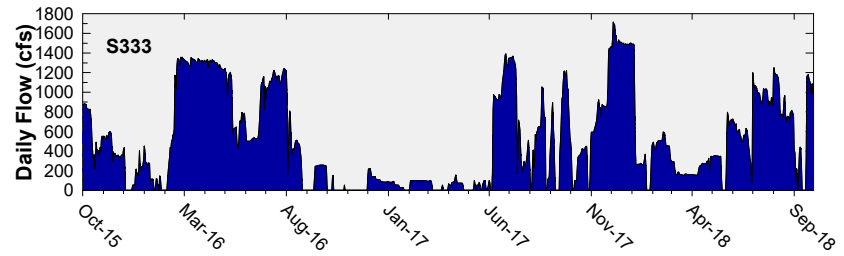
Shark River Slough Structure Daily Flows



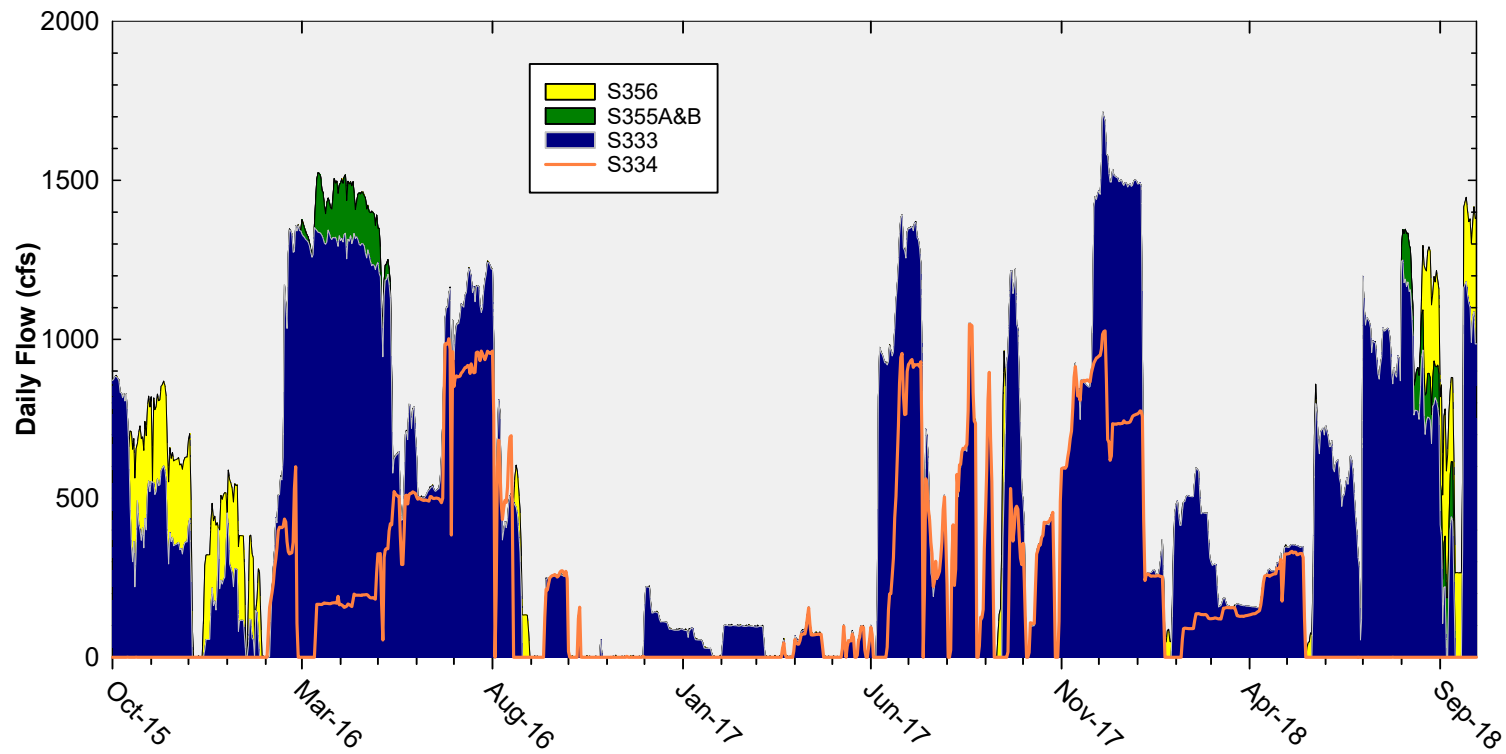
Daily Flows at S12 Structures to Shark River Slough



Daily Flows at Individual Inflow Structures to Shark River Slough

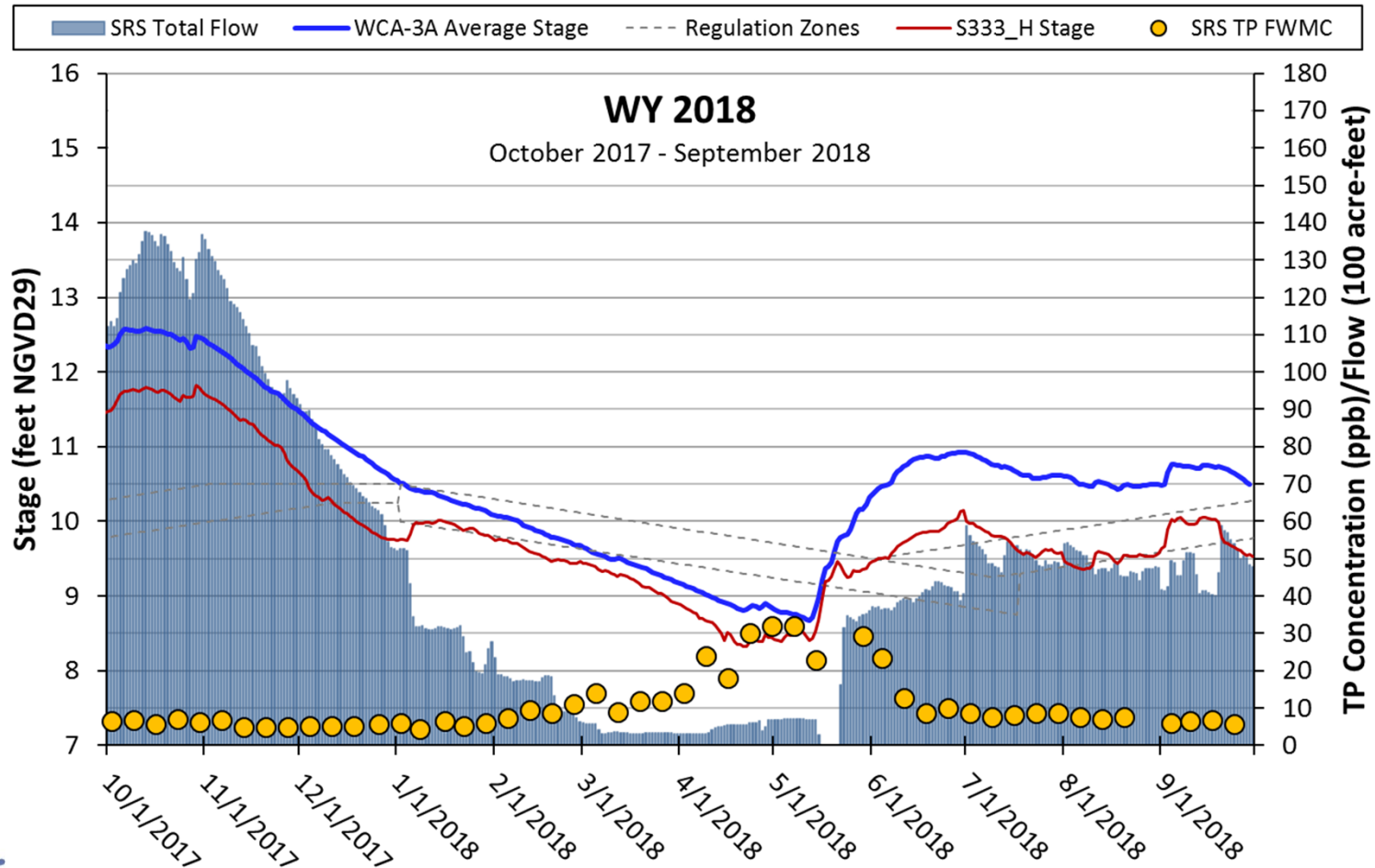


Daily Flows Into Shark River Slough through S333, S355A&B, and S356 and Out through S334

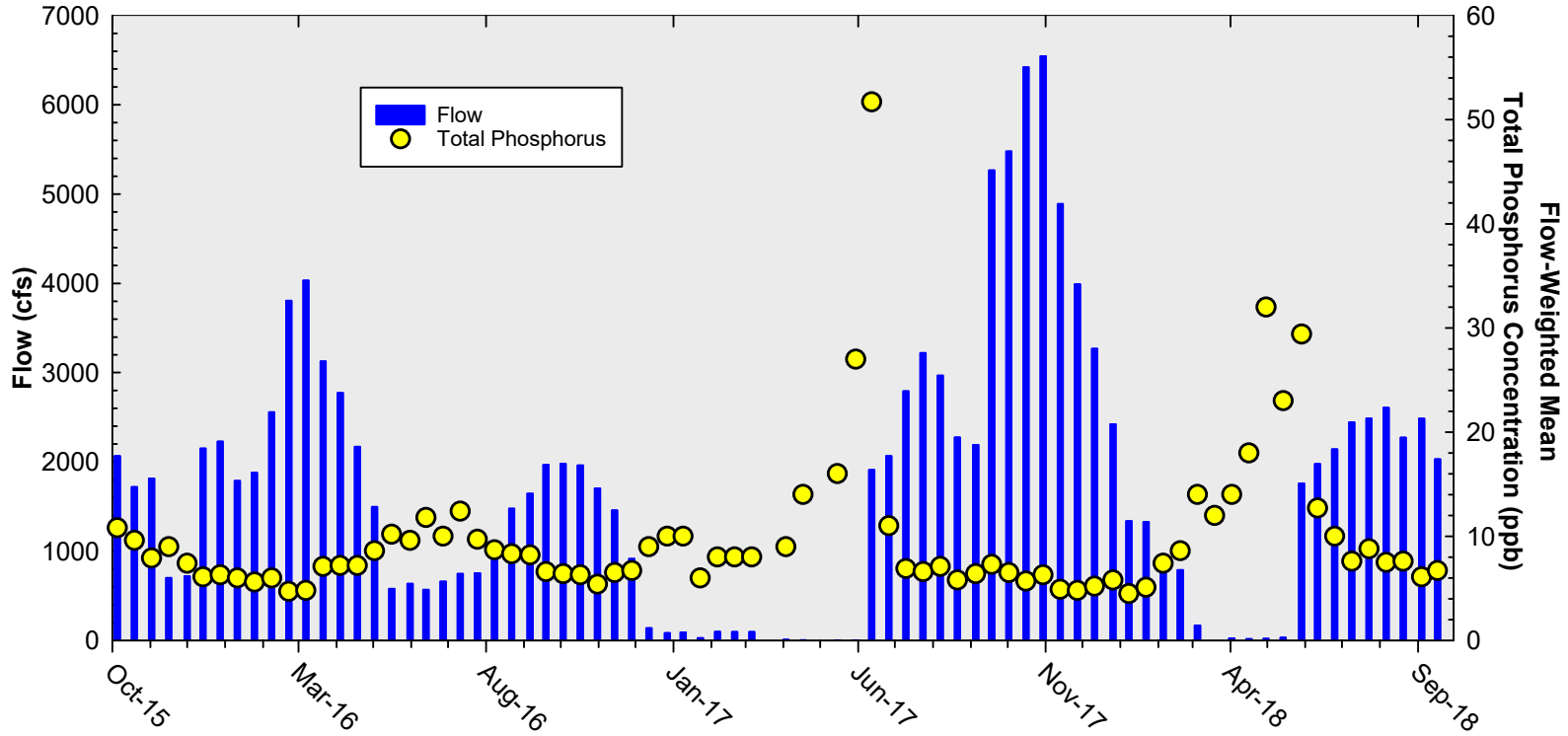


Shark River Slough Daily Flows, WCA-3 and S333 stage, and Weekly SRS TP FWMC

Plot shows Method 1 Total Flow (S12s+S333+S355A&B) and FWMC [S12s+(S333+S355A&B-S334)]



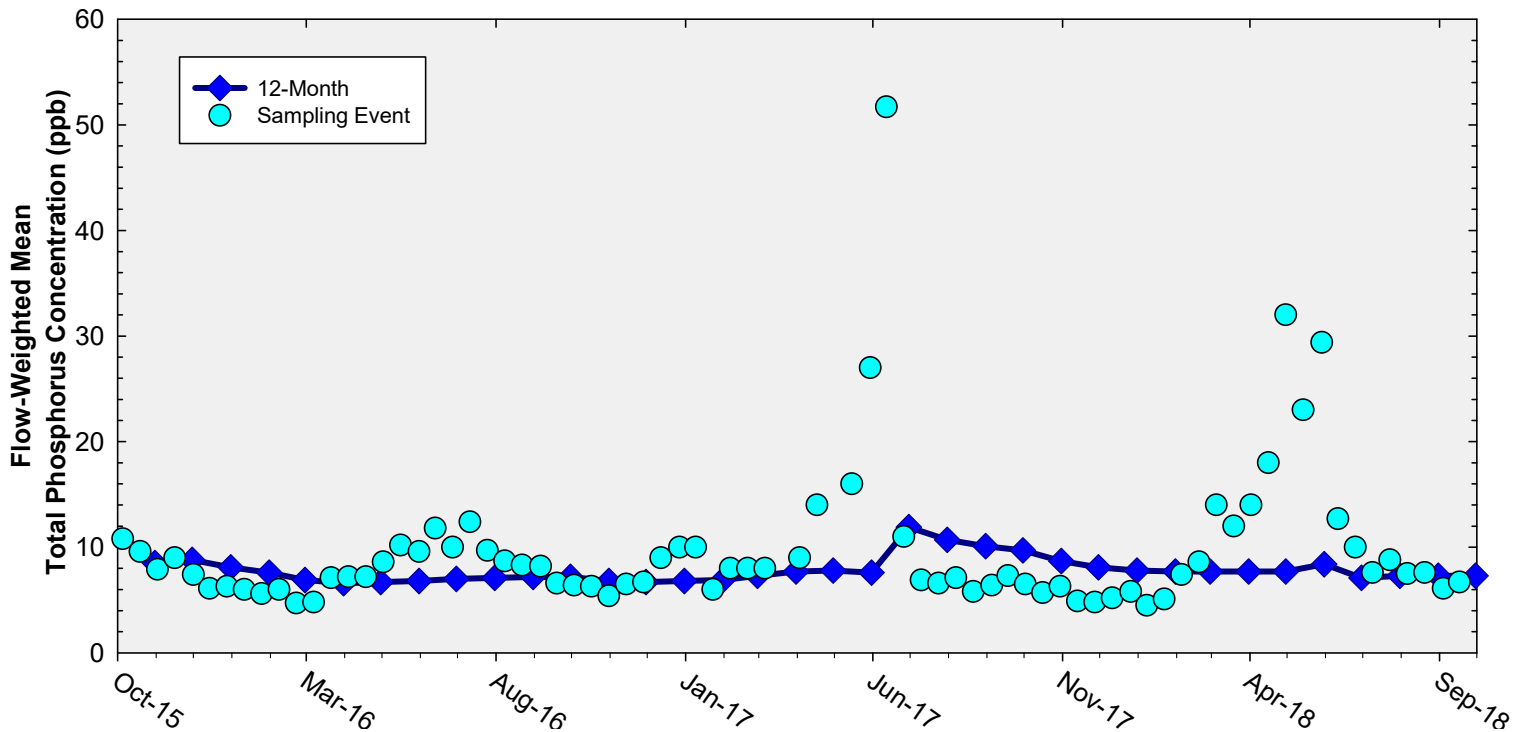
Shark River Slough Sampling Event Flow and FWMC



Flow to Shark River Slough and the corresponding TP FWMCs for individual sampling events

Note: Method 1 results illustrated

Flow-Weighted Mean Concentrations Inflows to ENP through Shark River Slough



The composite TP concentration and 12-month FWMC at the end of each month for each sampling event

Note: Method 1 results illustrated

Thank You

