



SETTLEMENT AGREEMENT REPORT

WY2016 Annual Shark River Slough Compliance

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Water Quality Bureau

Technical Oversight Committee
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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 2016	7.1	12.0	16.07	13	
Aug 2016	6.6	13.1	15.92	6	
Sept 2016	7.3	9.1	16.62	14	
12-Month Period Ending	Total Flow (kac-ft)	12-Month Flow-weighted Mean TP Concentration (ppb)	Long-term Limit (ppb)	Percent of Sampling Events Greater than 10 ppb	
				Guideline	Observed
Everglades National Park – Shark River Slough					
Jul 2016	1,250 (1,303)	7.1 (7.1)	7.6 (7.6)	40.1 (40.1)	18.2 (18.2)
Aug 2016	1,341 (1,397)	7.2 (7.2)	7.6 (7.6)	40.1 (40.1)	16.7 (16.7)
Sept 2016	1,445 (1,495)	7.2 (7.2)	7.6 (7.6)	40.1 (40.1)	15.4 (15.4)
Everglades National Park – Taylor Slough and Coastal Basins					
Jul 2016	300.7	5.2	11.0	53.1	0.0
Aug 2016	330.9	5.2	11.0	53.1	0.0
Sept 2016	361.3	5.3	11.0	53.1	0.0

Note: Explanation of multiple values reported for SRS is provided on WY2016 compliance tracking slide.

Shark River Slough TP Concentration Compliance Tracking for WY 2016 (October 2015 – September 2016)

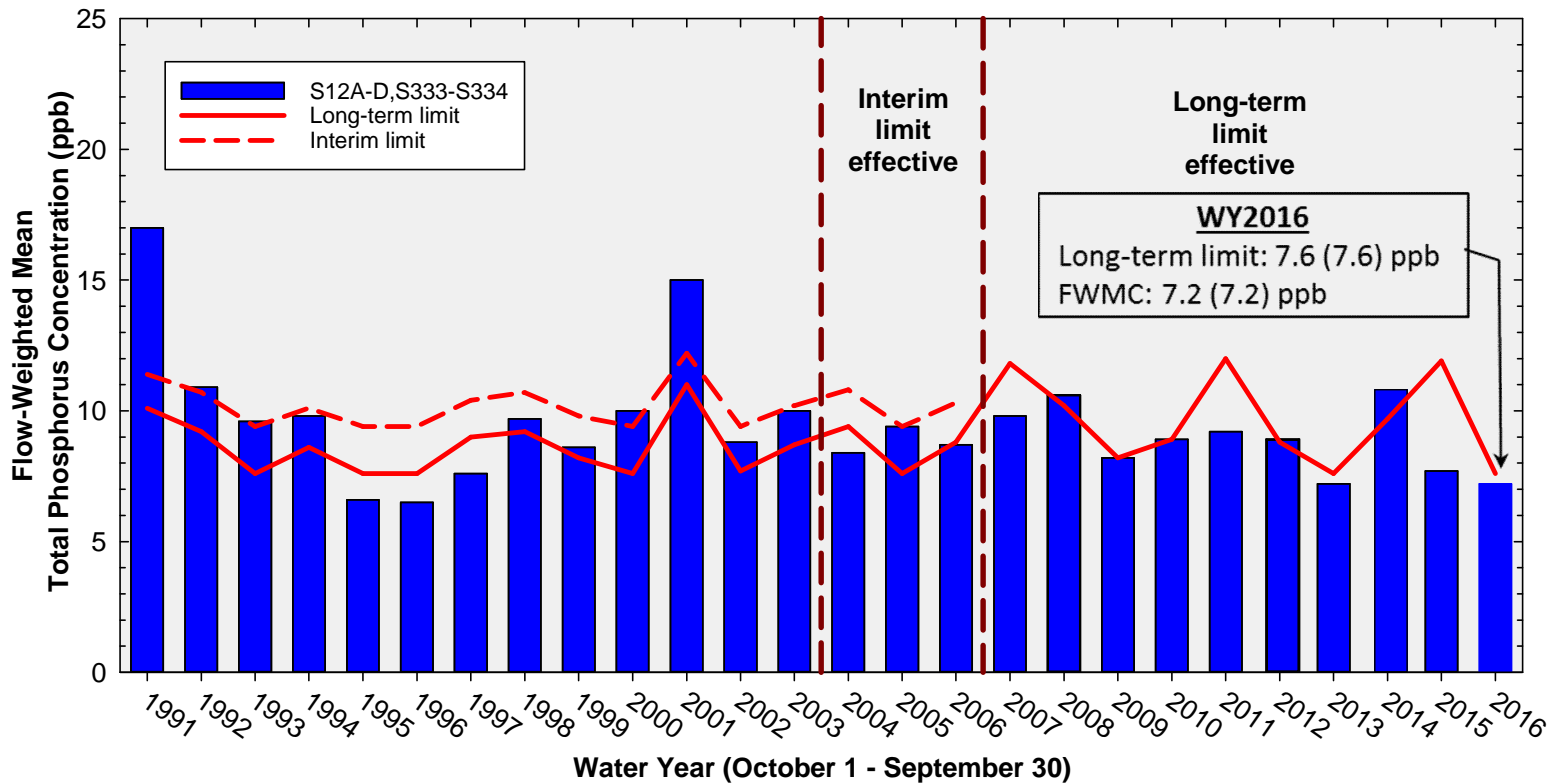
12-Month Period	Total Flow (kac-ft)	Flow-Weighted Mean TP Concentration (ppb)	Long-Term Limit (ppb) <i>Effective 12/31/2006</i>	Percent of Sampling Events Greater than 10 ppb	
				Guideline	Observed
Aug 2015 - Jul 2016	1,250 (1,303)	7.1 (7.1)	7.6 (7.6)	40.1 (40.1)	18.2 (18.2)
Sep 2015 - Aug 2016	1,341 (1,397)	7.2 (7.2)	7.6 (7.6)	40.1 (40.1)	16.7 (16.7)
<i>Oct 2015 - Sep 2016</i>	<i>1,445 (1,495)</i>	<i>7.2 (7.2)</i>	<i>7.6 (7.6)</i>	<i>40.1 (40.1)</i>	<i>15.4 (15.4)</i>

Shark River Slough WY2016 RESULTS:

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.

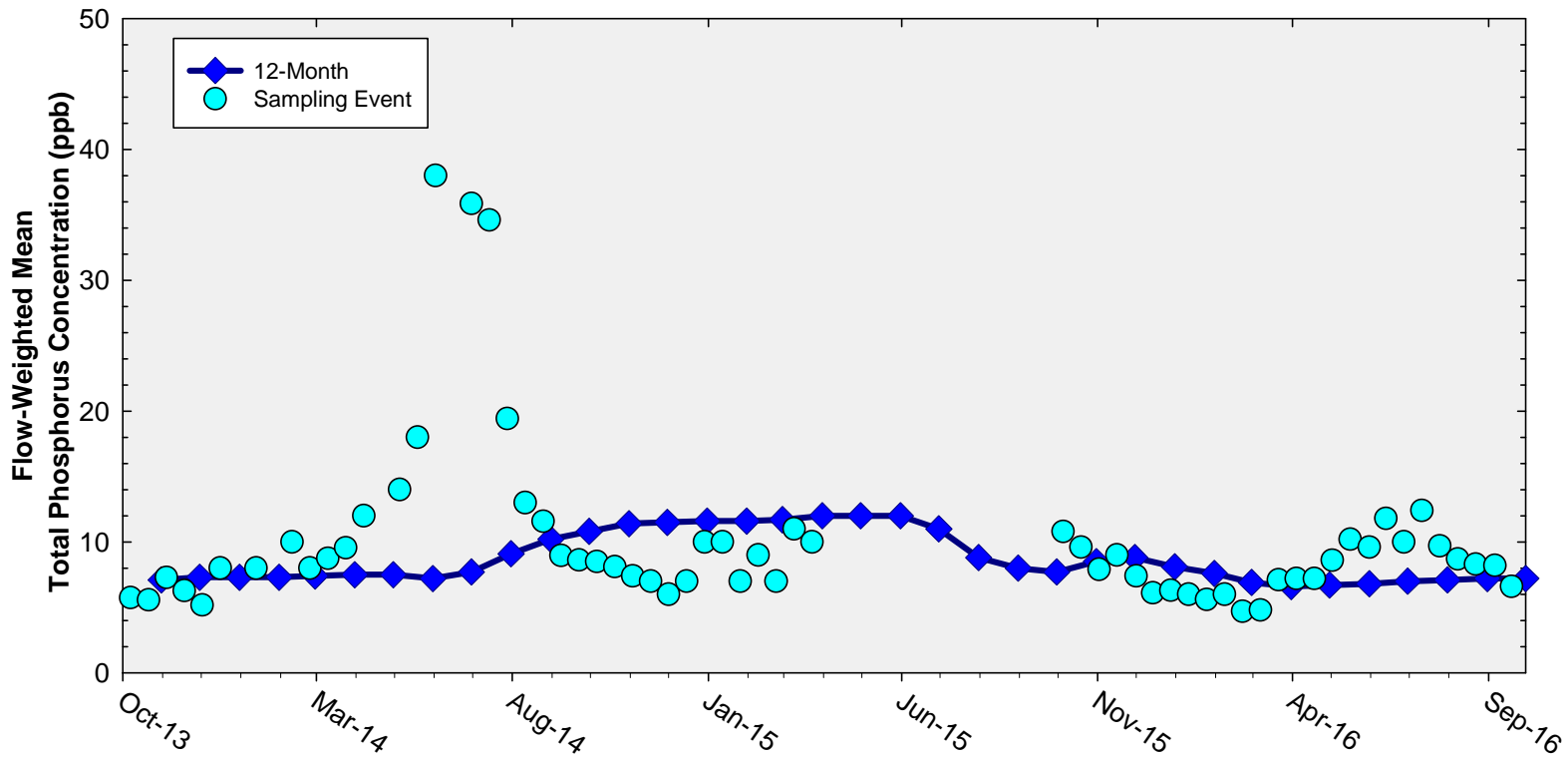
Neither method excludes S334 flow from the flow for long-term limit calculations.

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



Water year (12-month) FWMC compared to the TP interim and long-term limits

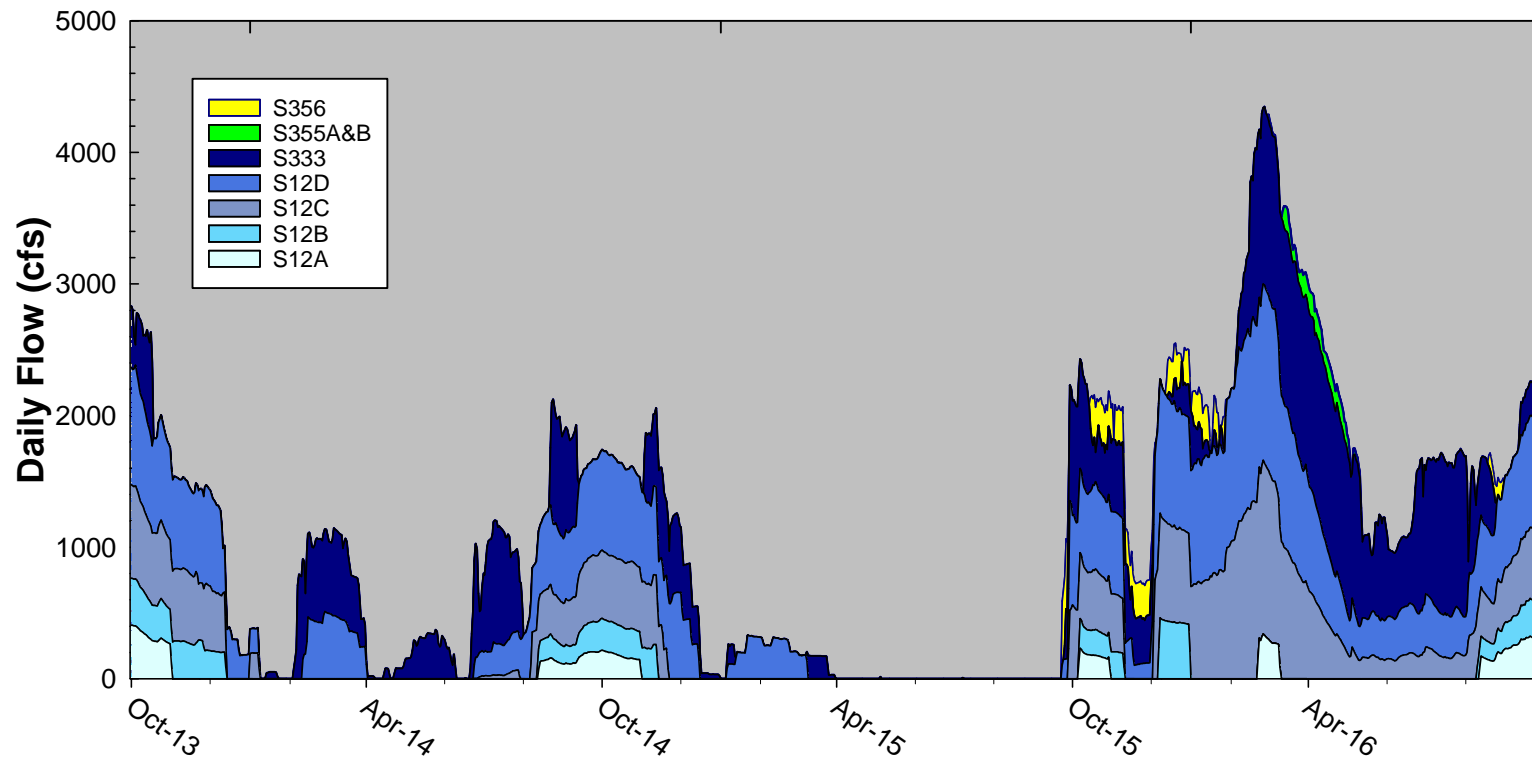
Flow-Weighted Mean Concentrations Inflows to ENP through Shark River Slough



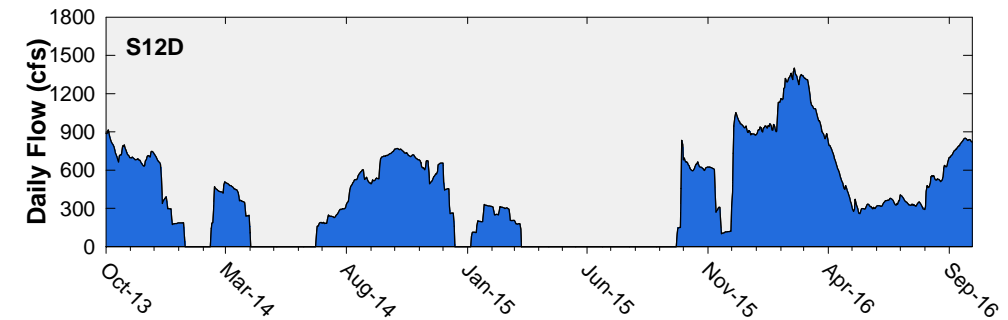
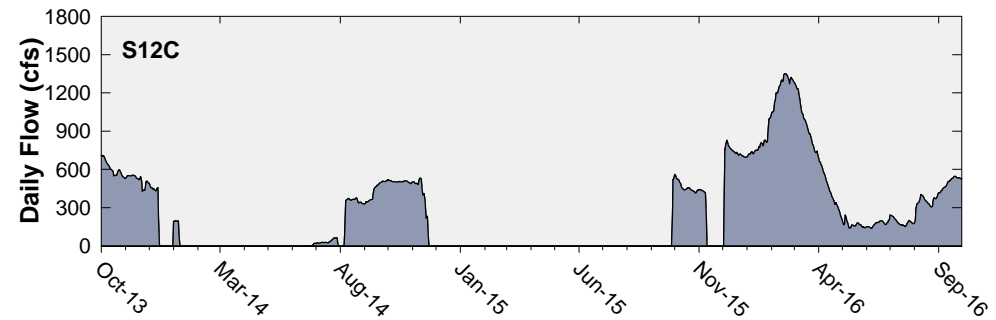
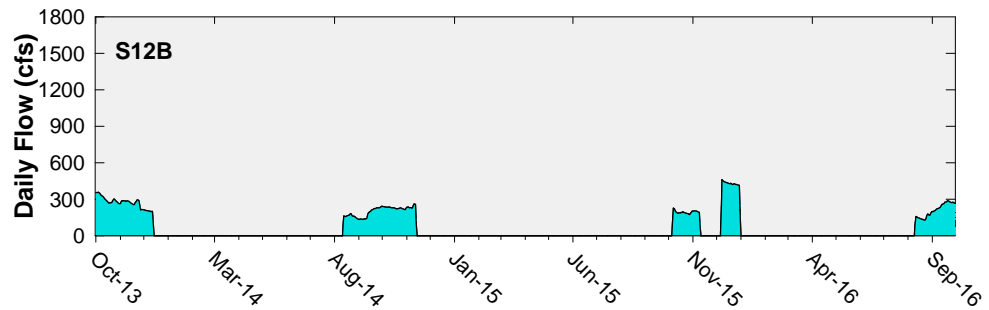
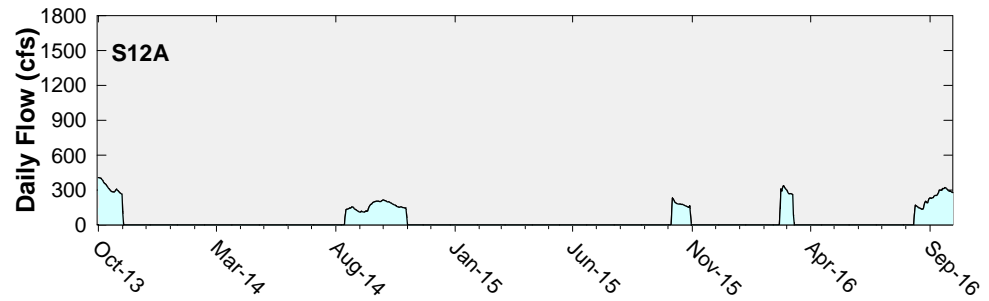
The composite TP concentration and 12-month FWMC at the end of each month for each sampling event

Note: Method 1 results illustrated

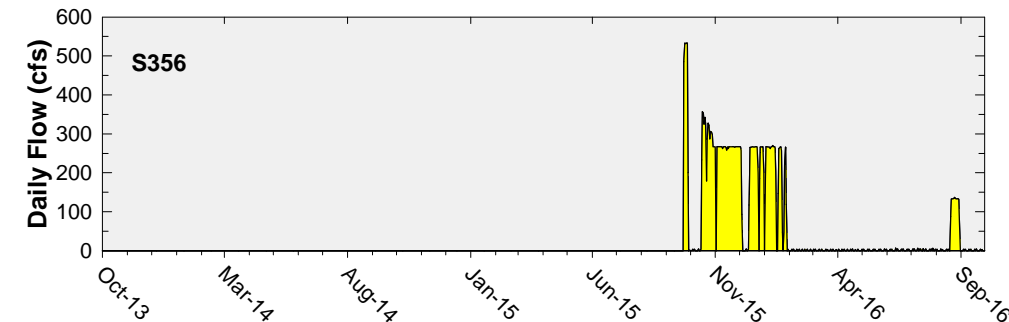
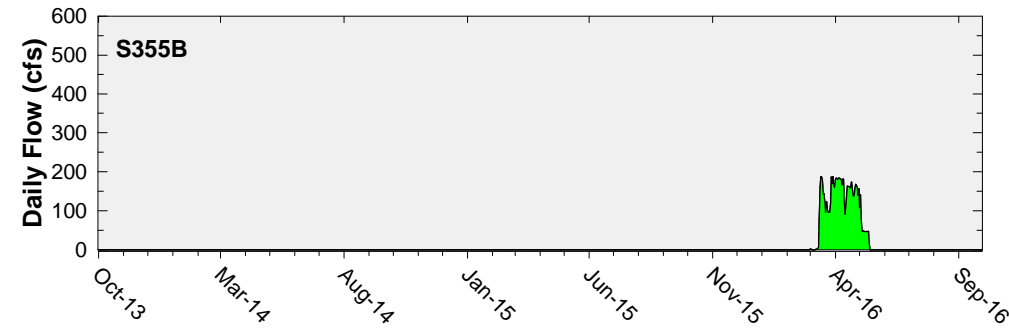
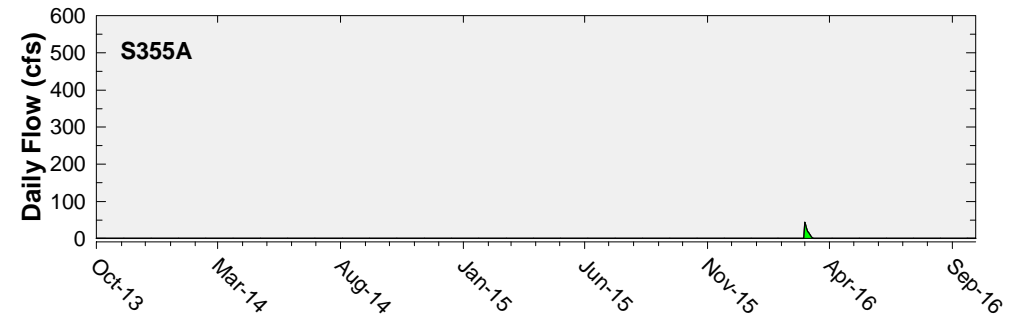
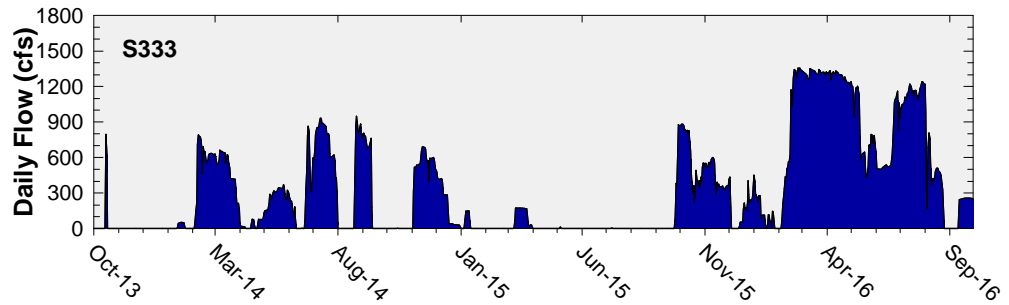
Shark River Slough Daily Flows



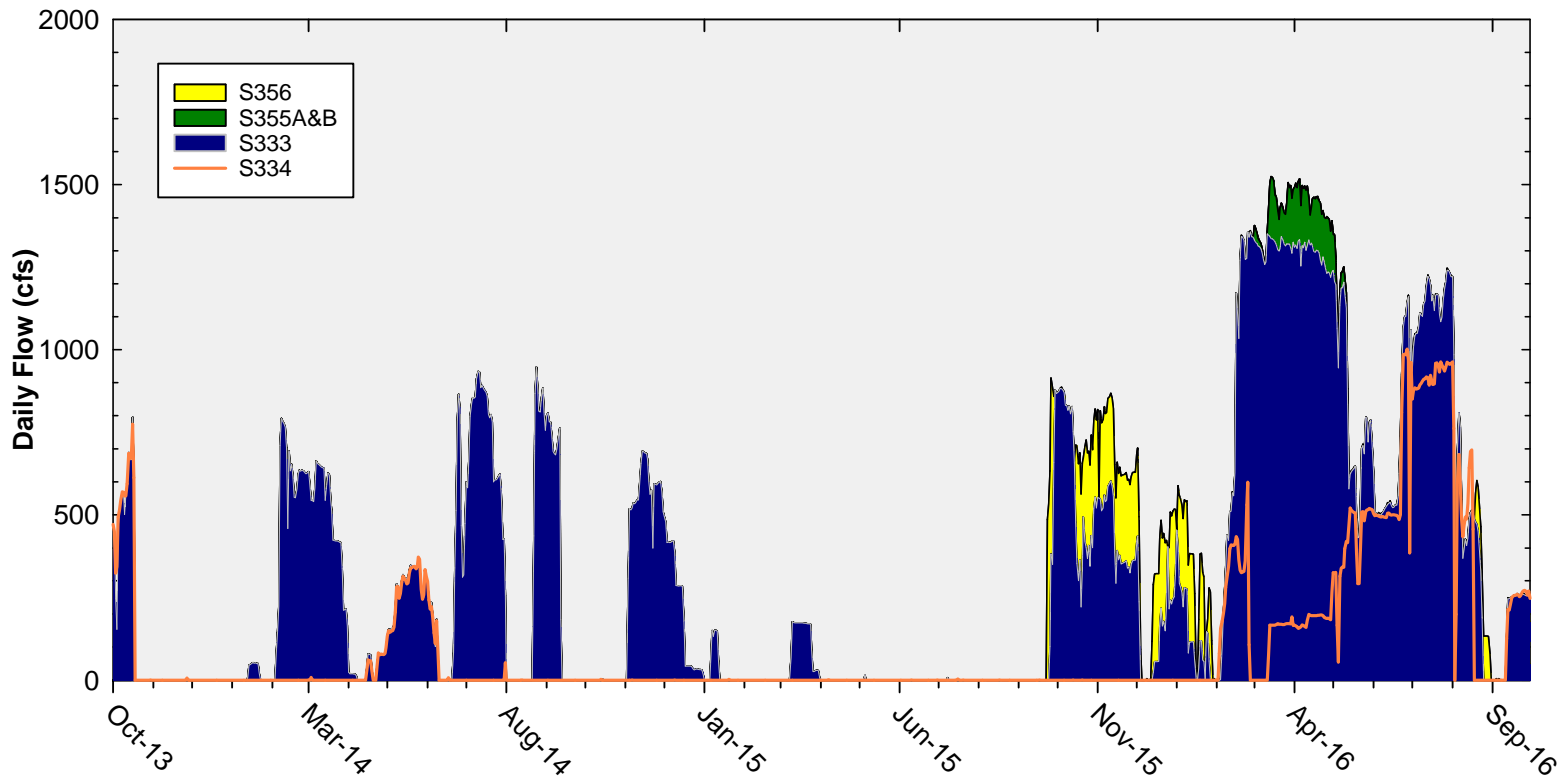
Daily Flows at S12 Structures to Shark River Slough



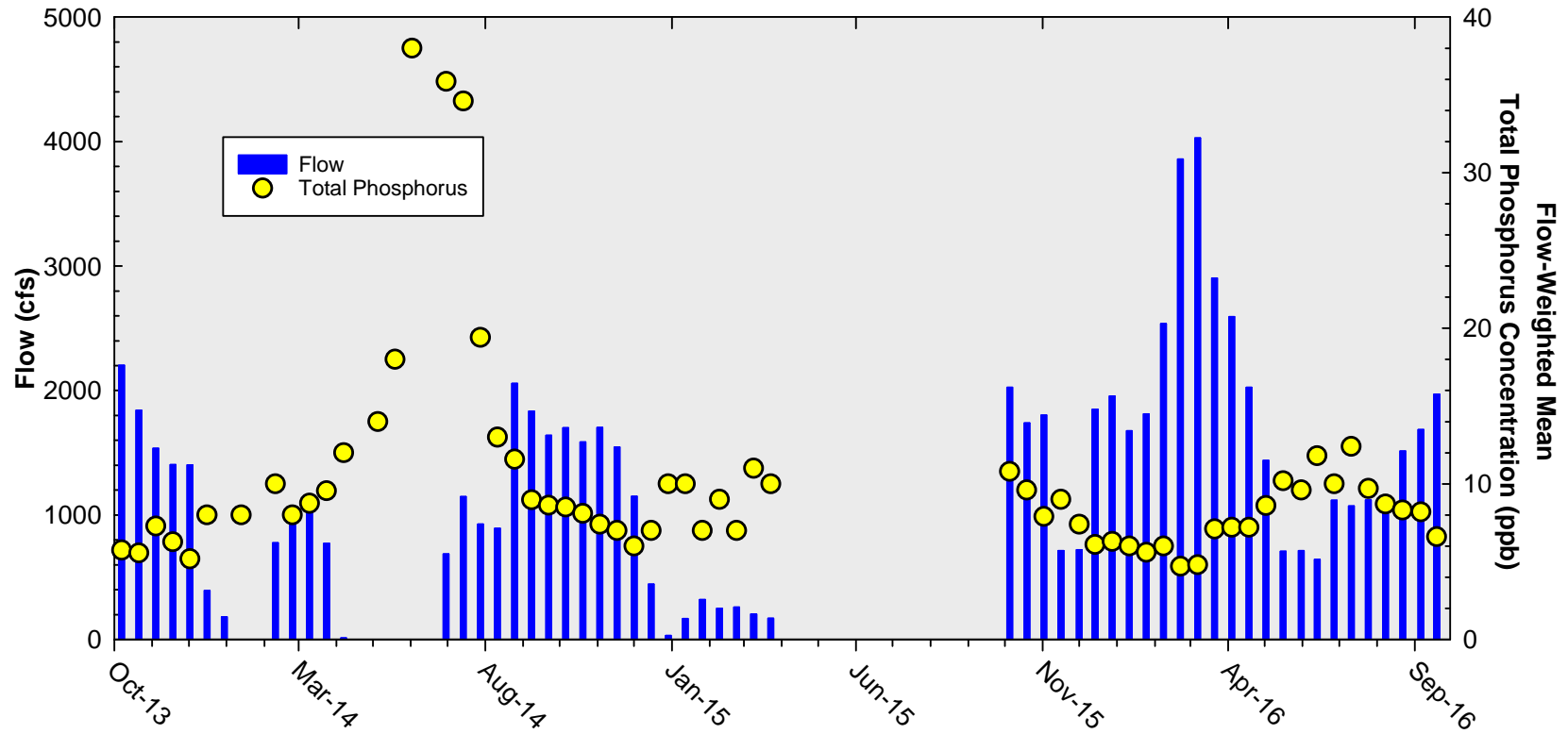
Daily Flows at individual inflow structures to Shark River Slough



Daily Flows Into and Out from the L-29 Canal



Shark River Slough Sampling Event Flow and FWMC



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

Note: Method 1 results illustrated

Thank You

