



SETTLEMENT AGREEMENT REPORT

April – June 2014

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Compliance Assessment & Reporting Section
Water Quality Bureau

Technical Oversight Committee
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sfwmd.gov

SUMMARY

Month	Geometric Mean TP Concentration (ppb)	Long-term Level (ppb)	Mean Stage (feet NGVD 29)	Number of Samples	
Arthur R. Marshall Loxahatchee National Wildlife Refuge					
Apr 2014	6.1	11.0	16.23	12	
May 2014	8.1	14.1	15.79	9	
Jun 2014	6.6	16.0	15.56	6	
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					
Apr 2014	The quarterly flow and TP data for this table is posted separately on the TOC website. The annual compliance result will be published in this report for the 12-month flow-weighted mean TP concentration for the federal water year ending on September 30 when the final approved flow data is available.				
May 2014					
Jun 2014					
Everglades National Park – Taylor Slough and Coastal Basins					
Apr 2014	246.6	4.5	11.0	53.1	0.0
May 2014	239.9	4.5	11.0	53.1	0.0
Jun 2014	215.9	4.6	11.0	53.1	1.3

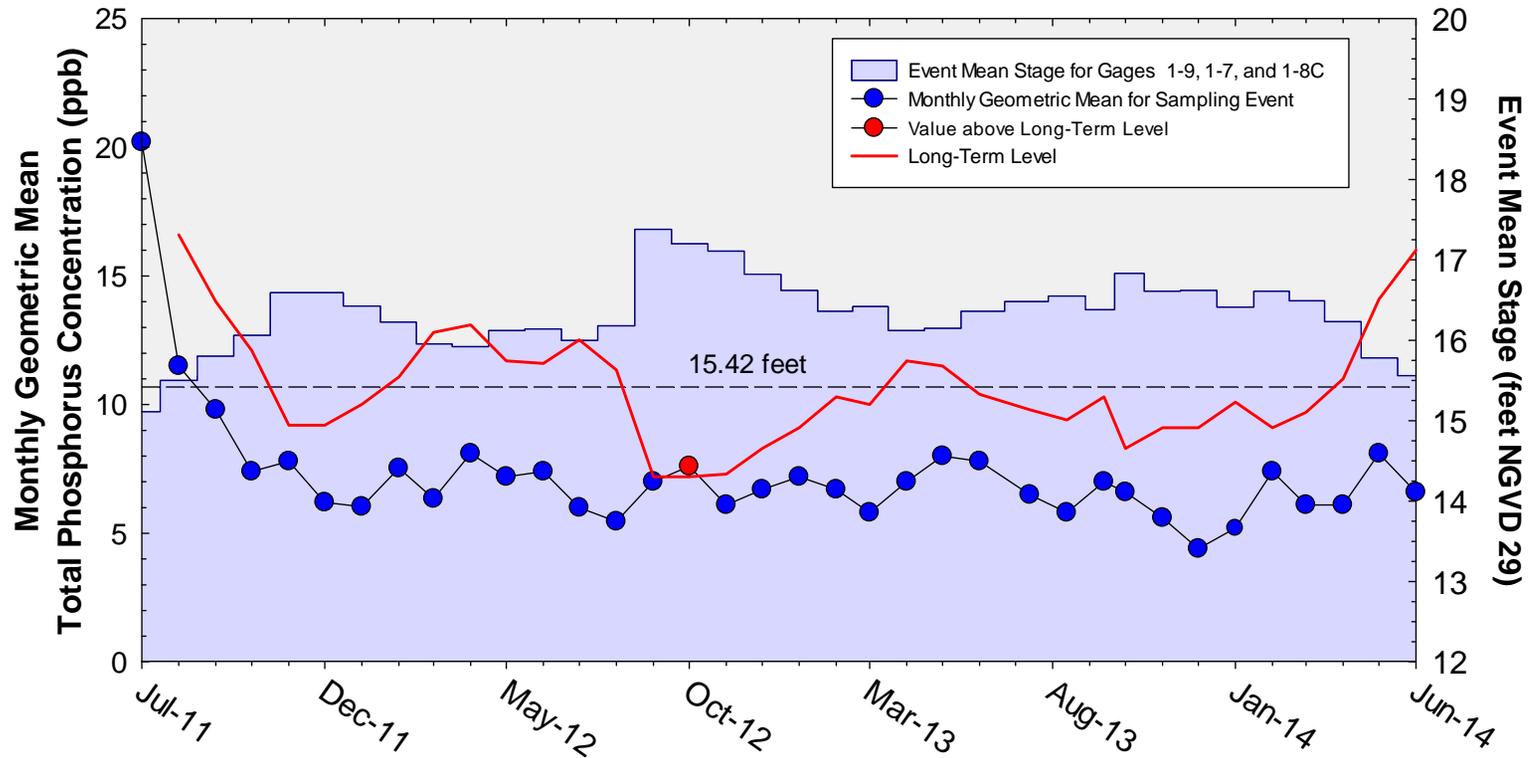
Refuge TP Compliance Tracking For April 2014 – September 2014

Month	Geometric Mean TP Concentration (ppb)	Long-Term Level (ppb) Effective 12/31/2006	Average Stage (feet NGVD 29)	Number of Samples
Apr-2014	6.1	11.0	16.23	12
May-2014	8.1	14.1	15.78	9
Jun-2014	6.6	16.0	15.56	6
Jul-2014	7.7	11.3	16.18	12
Aug-2014	7.4	9.8	16.47	14
Sep-2014	7.2	10.1	16.40	14

Note: July to September 2014 values are preliminary.

A.R.M Loxahatchee National Wildlife Refuge

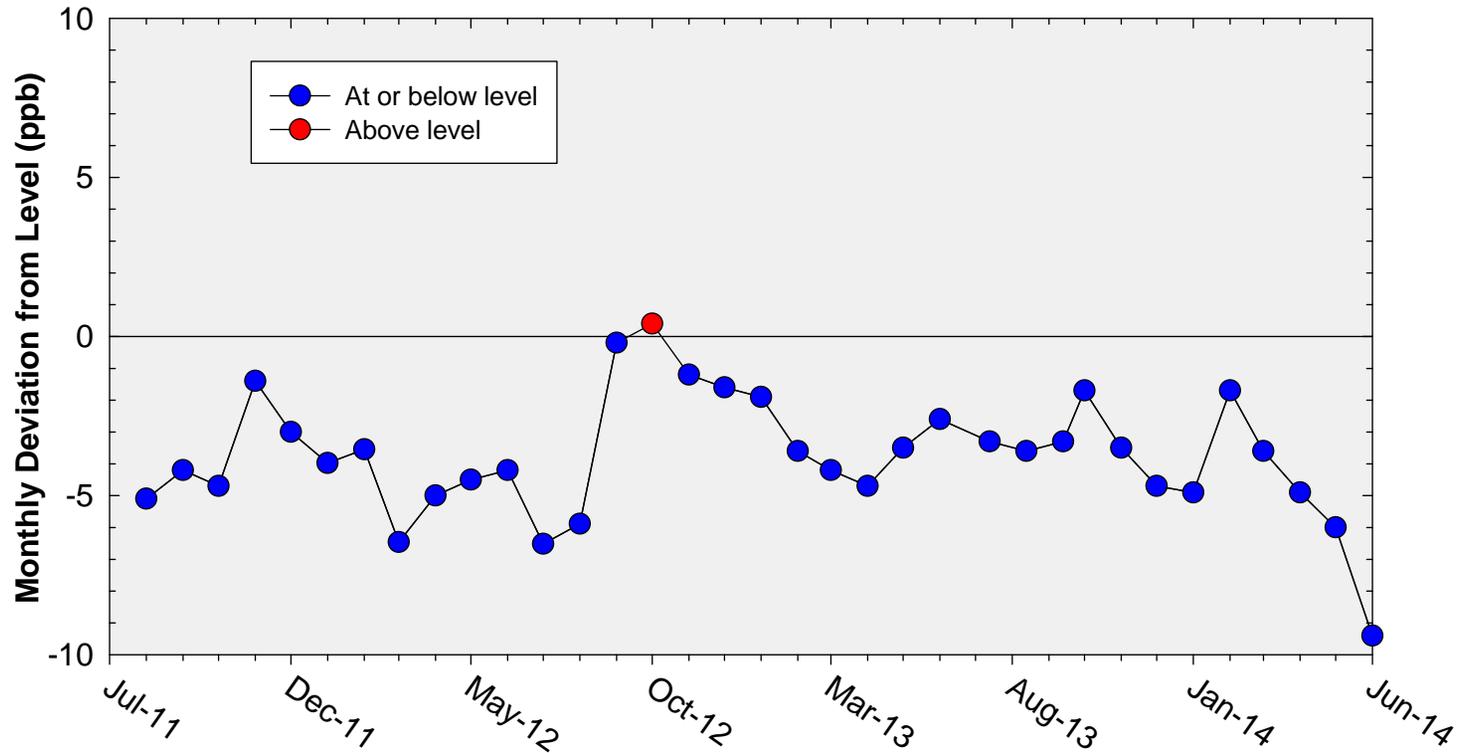
Monthly Total Phosphorus Geometric Mean Concentrations



Note: Long-term level was not applicable for July 2011 (sampling day average stage was less than 15.42 ft).

A.R.M Loxahatchee National Wildlife Refuge

Deviation of monthly geometric mean total phosphorus concentrations with calculated long-term levels



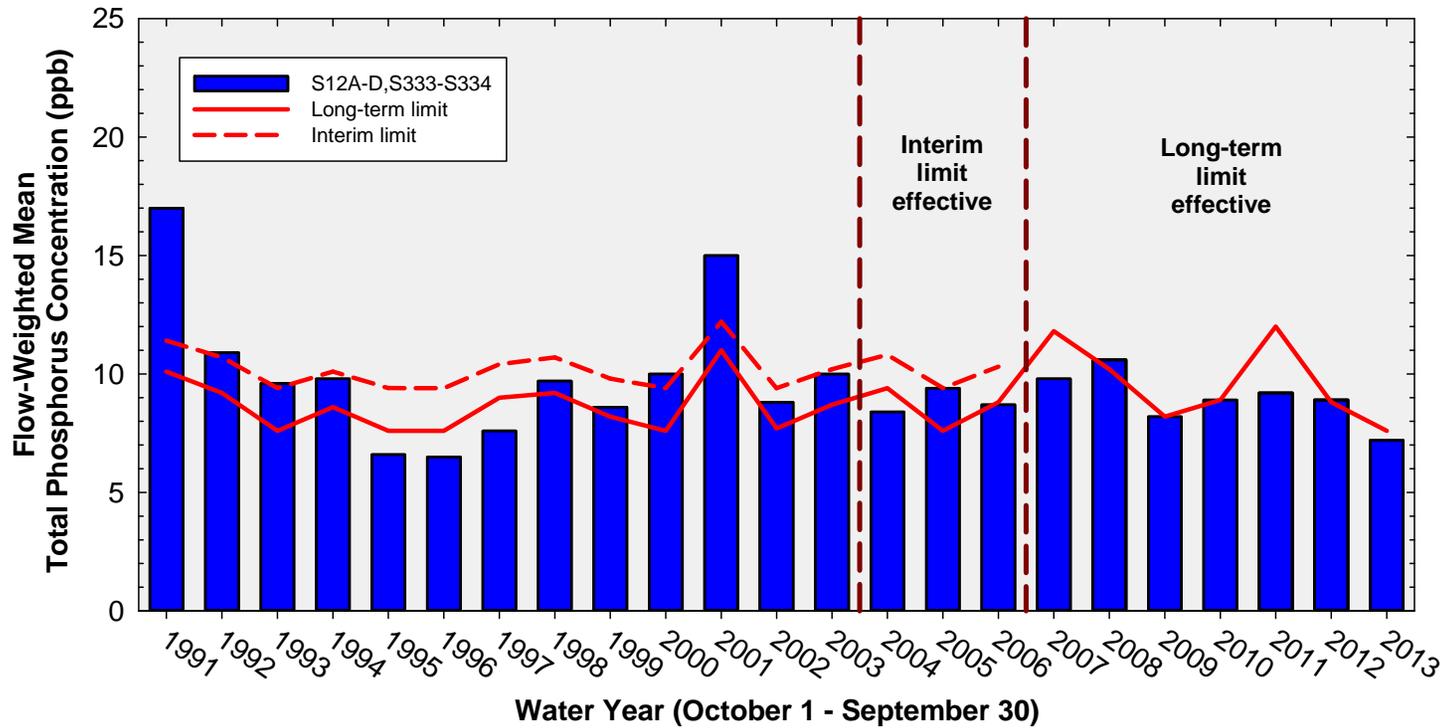
Note: Long-term level was not applicable for July 2011 (sampling day average stage was less than 15.42 ft).

Shark River Slough TP Concentration Compliance Interim Tracking for April 2014 – June 2014

(October 2013 – June 2014 Flow Data for S12s are Provisional)

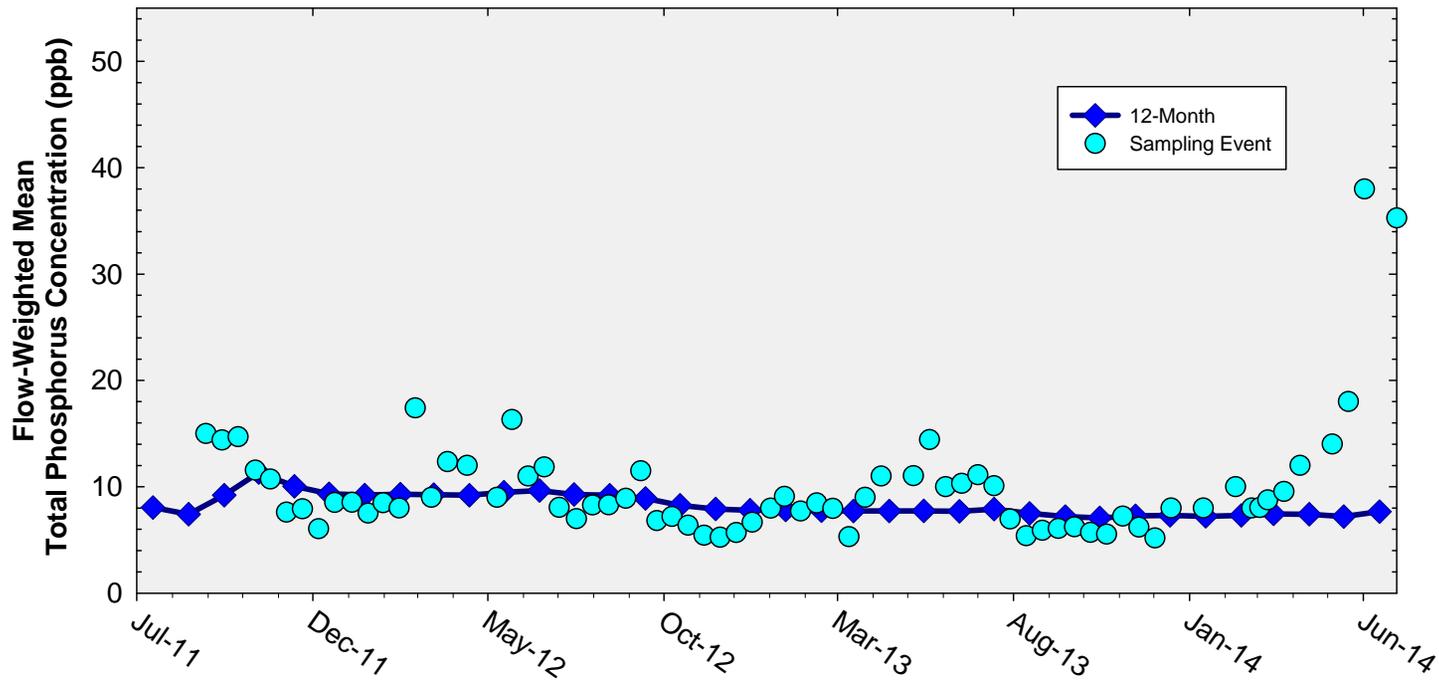
12-Month Period	Total Flow (kac-ft)	Flow-Weighted Mean TP Concentration (ppb)	Long-Term Limit (ppb) Effective 12/31/2006	Percent of Sampling Events Greater than 10 ppb	
				Guideline	Observed
May 2013- Apr 2014	1037.1	7.4	7.7	40.6	26.1
Jun 2013 - May 2014	984.0	7.2	8.0	41.8	26.1
Jul 2013 - Jun 2014	908.9	7.7	8.4	43.6	30.4

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



12-month FWMC at the end of each water year compared to the TP interim and long-term limits

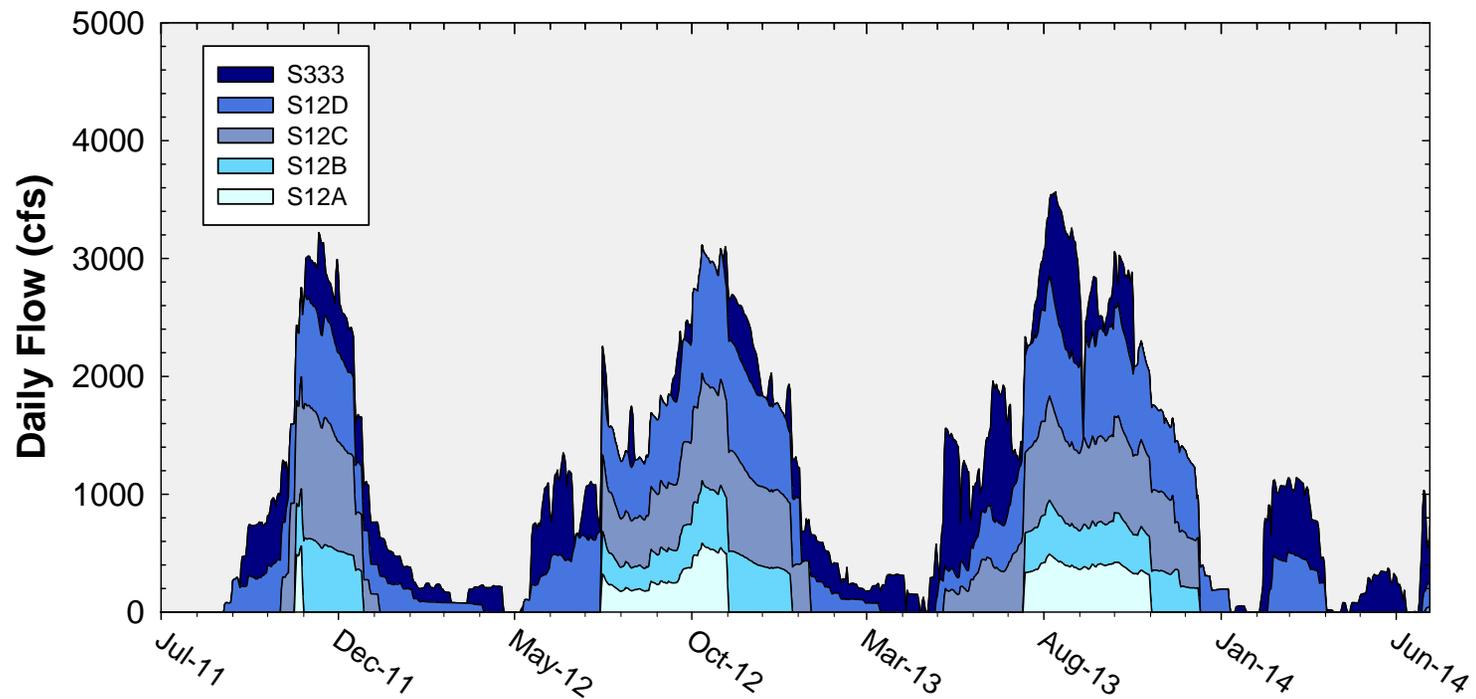
Flow-Weighted Mean Concentrations Inflows to ENP through Shark River Slough (October 2013 – June 2014 Flow Data for S12s are Provisional)



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

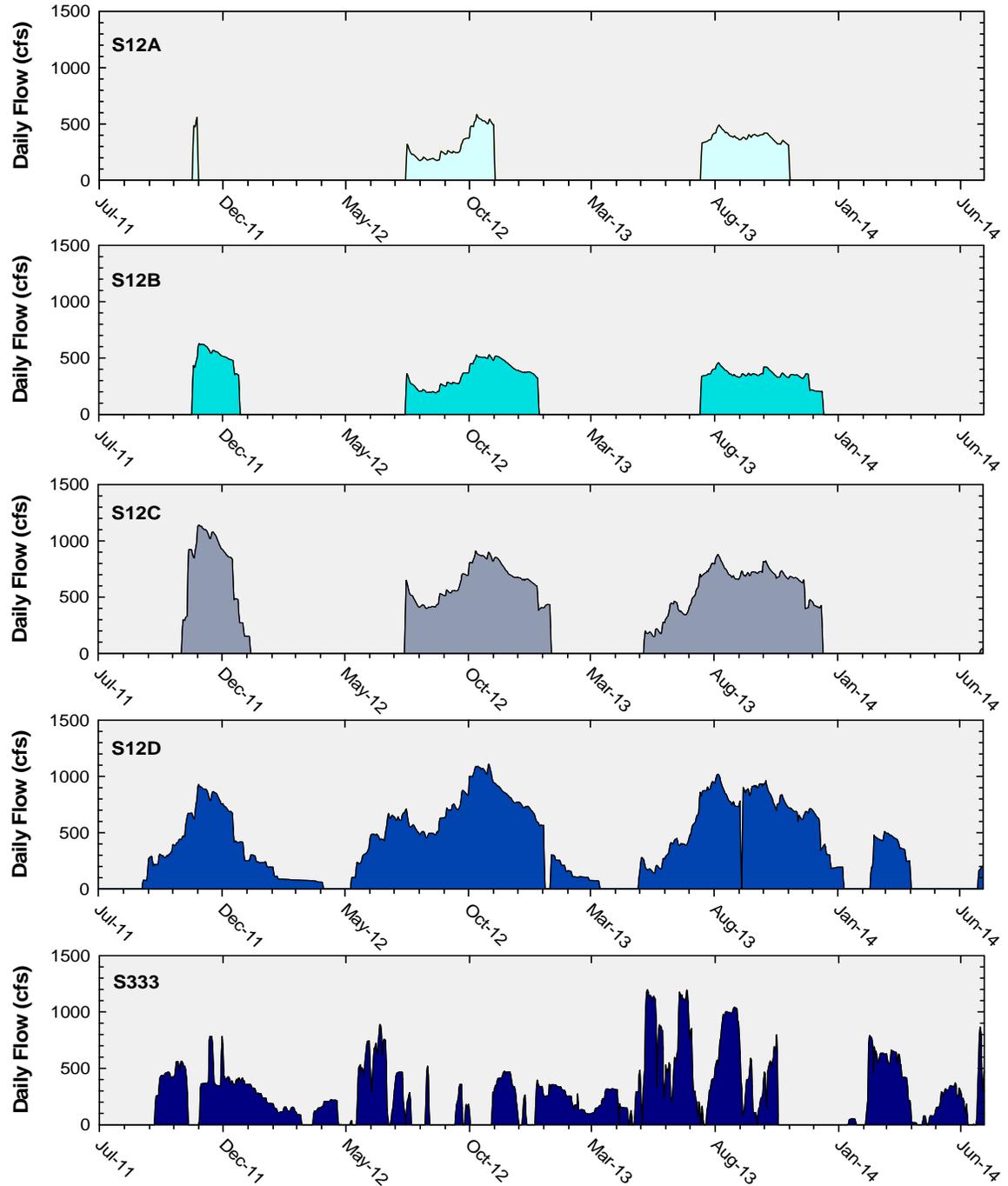
Shark River Slough Daily Flows

(October 2013 – June 2014 Flow Data for S12s are Provisional)

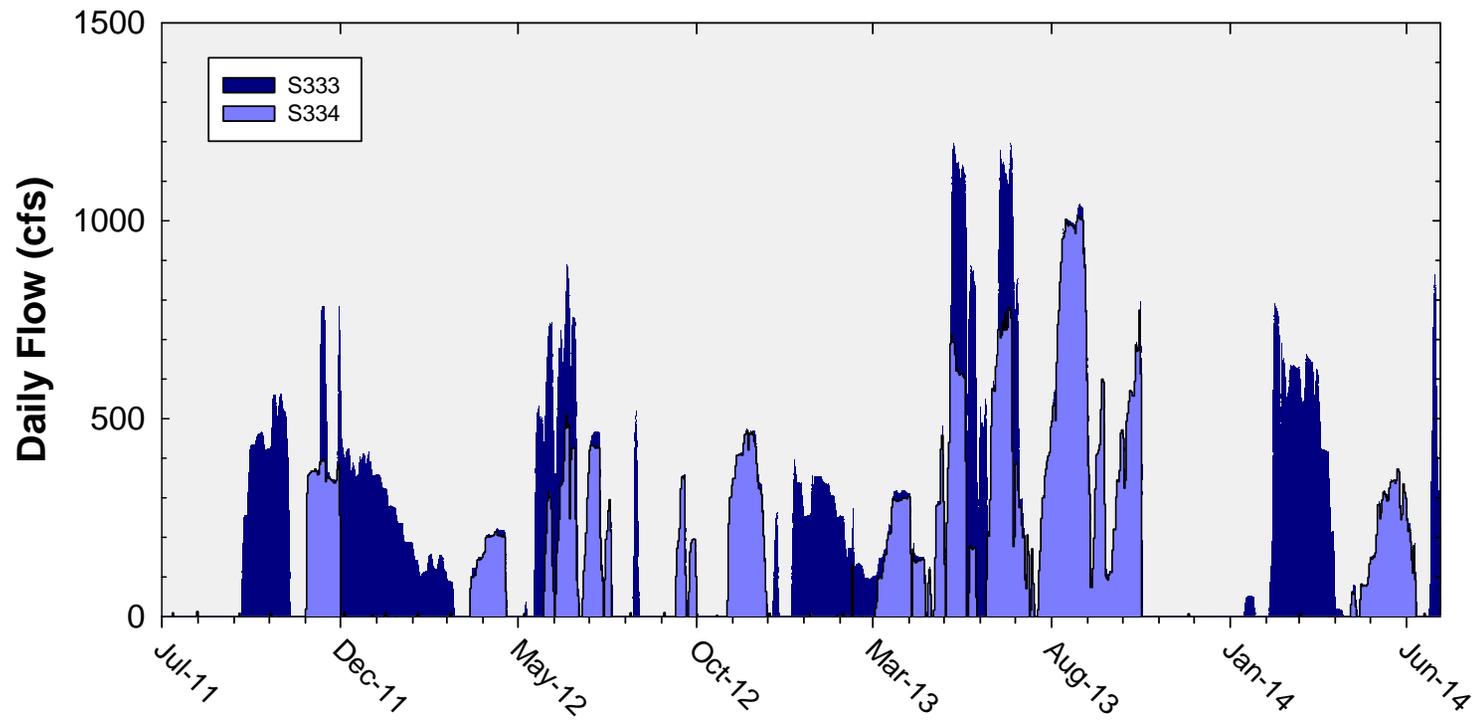


Daily Flows at individual inflow structures to Shark River Slough

(October 2013 – June 2014 Flow Data for S12s are Provisional)



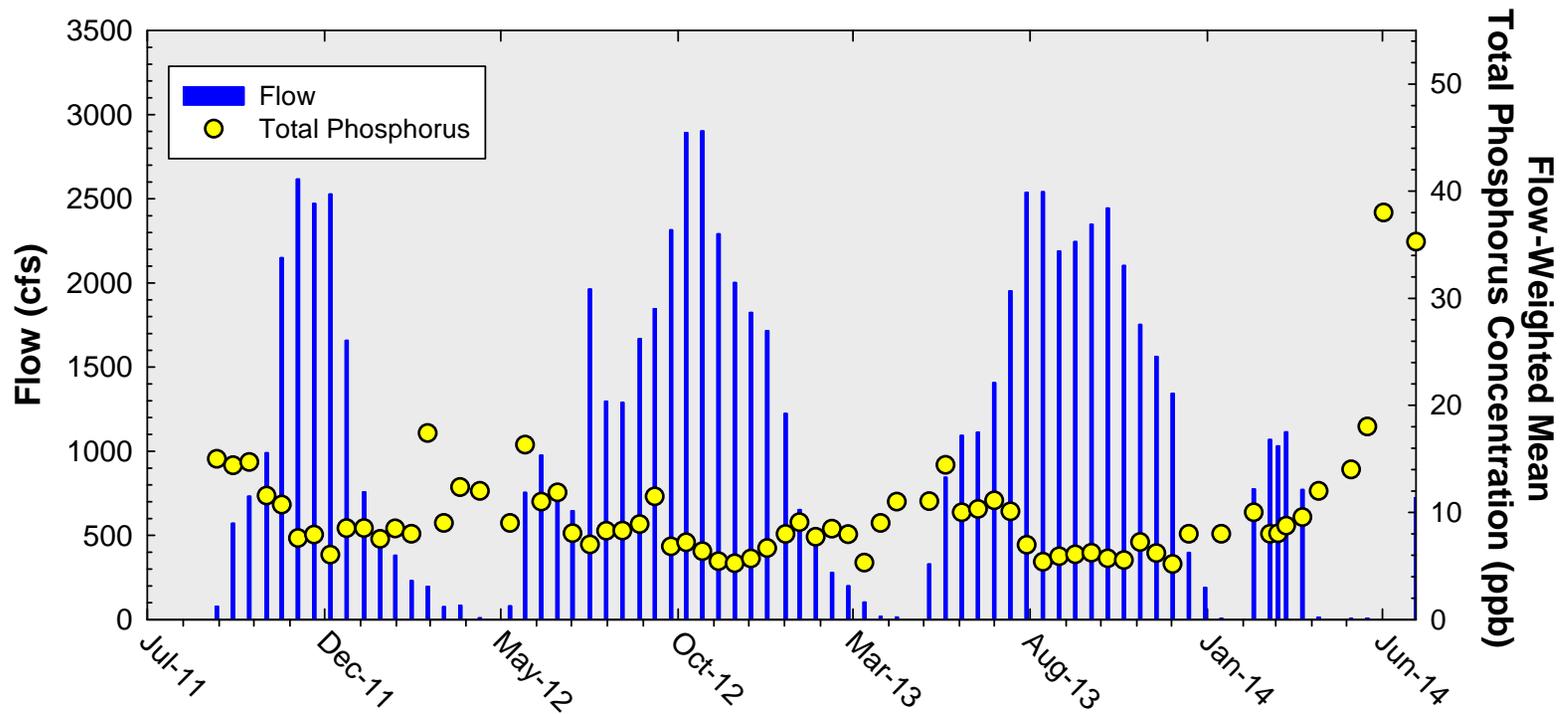
Daily Flows at S333 and S334



Shark River Slough

Sampling Event Flow and FWMC

(October 2013 – June 2014 Flow Data for S12s are Provisional)



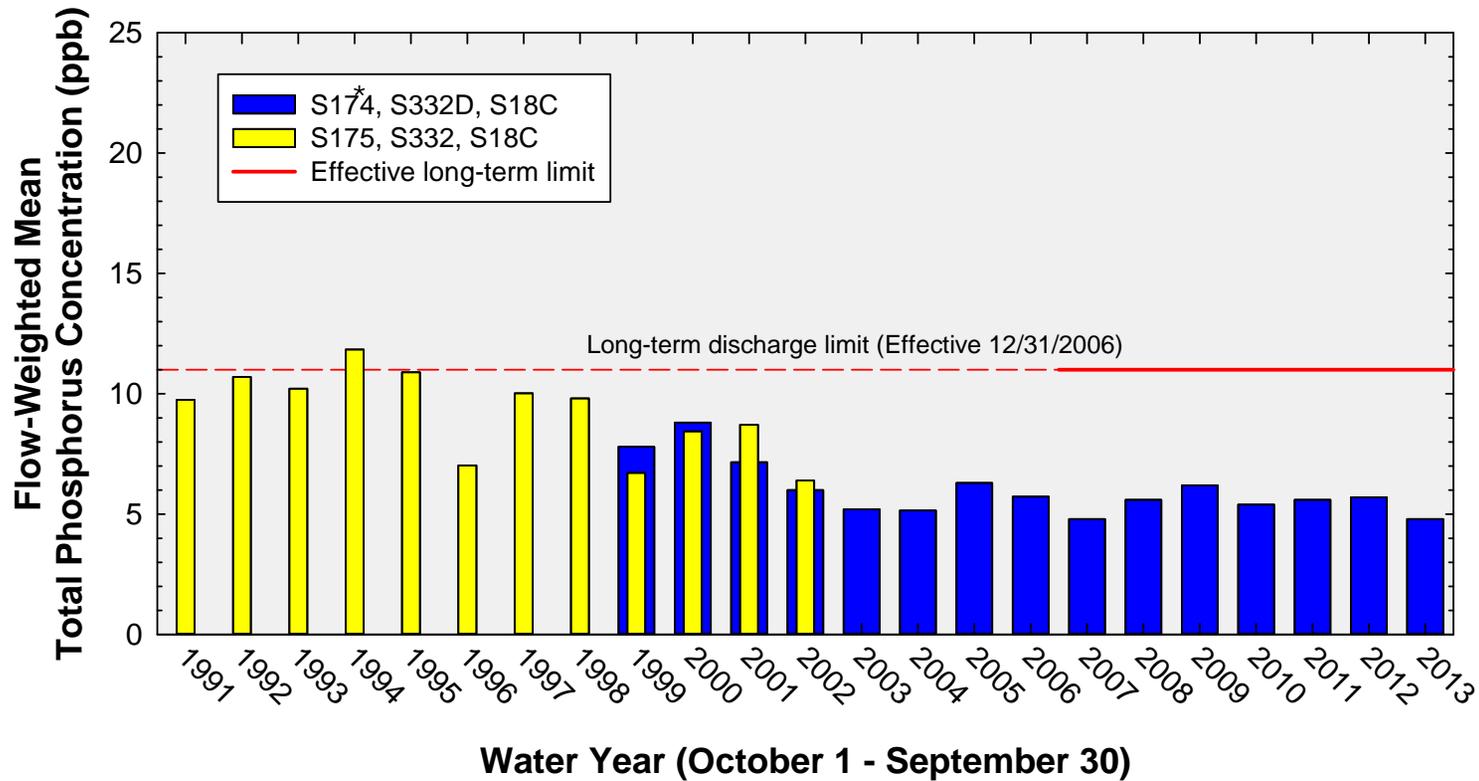
Flow at Shark River Slough structures and the corresponding TP FWMCs for individual sampling events

Taylor Slough and Coastal Basins TP Concentration Compliance Tracking for April 2014 – June 2014

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
May 2013 - Apr 2014	246.6	4.5	11.0	53.1	0.0
Jun 2013 - May 2014	239.9	4.5	11.0	53.1	0.0
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Annual Flow-Weighted Mean Concentrations

Inflows to the ENP through Taylor Slough and Coastal Basins

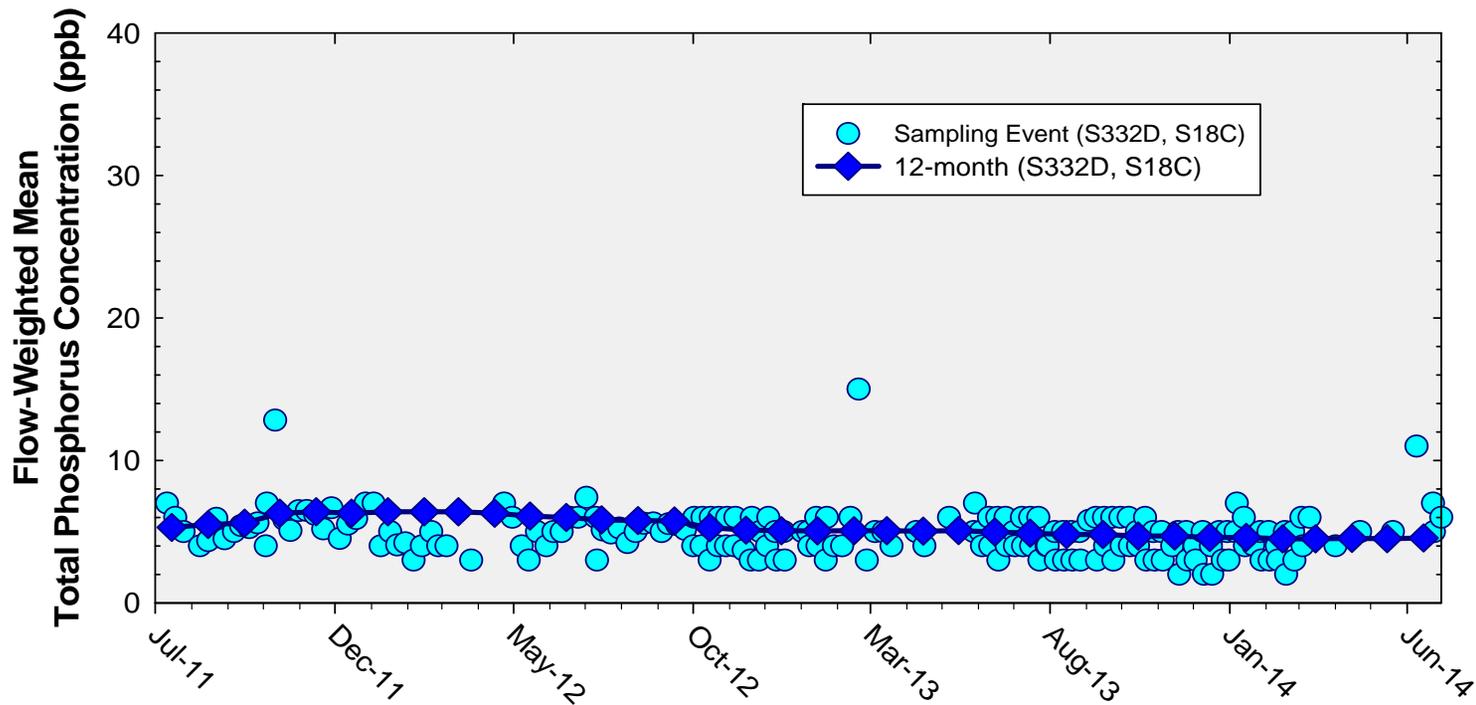


The 12-month FWMC at the end of each water year compared to the 11 ppb long-term TP limit

* S174 was plugged in September 2007

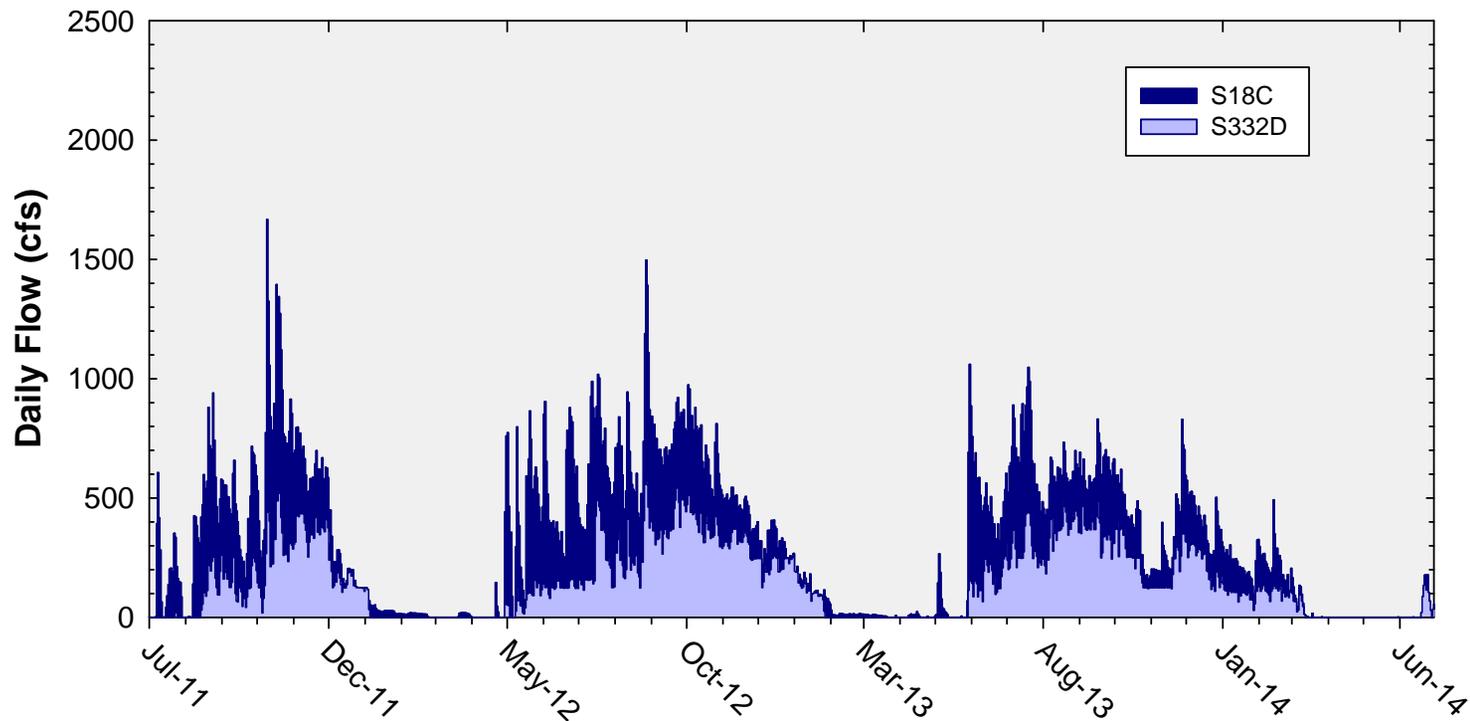
Flow-Weighted Mean Concentrations

Inflows to the ENP through Taylor Slough and Coastal Basins

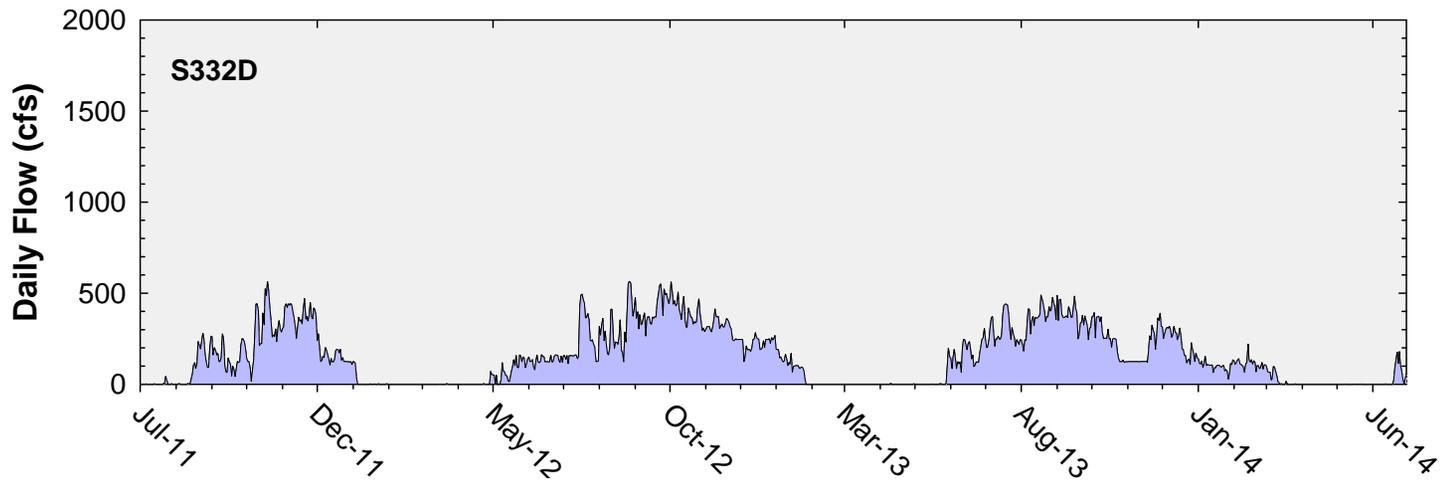
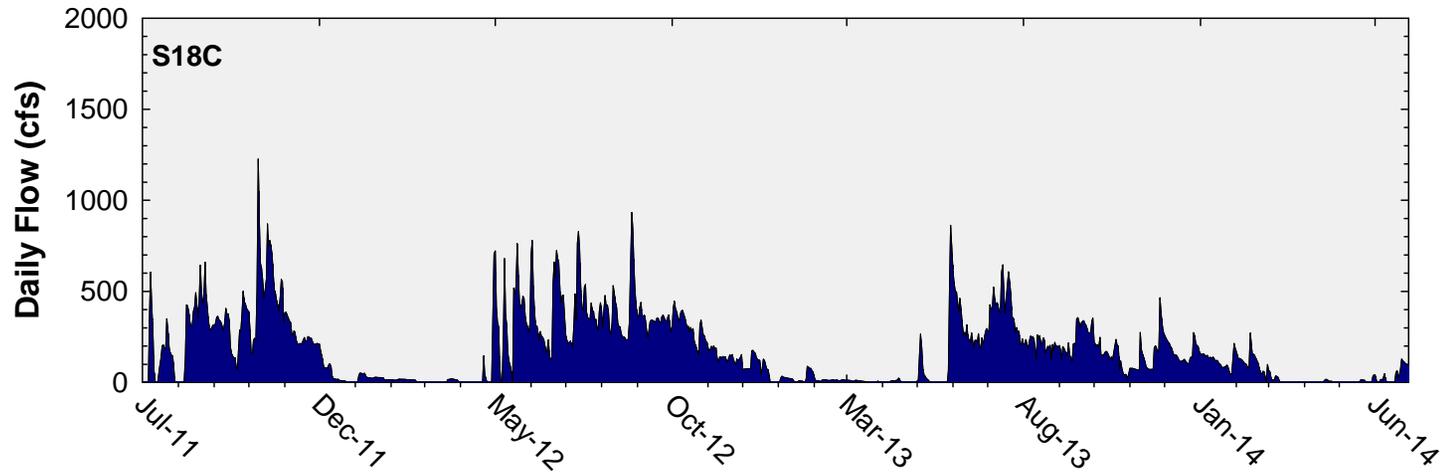


The 12-month FWMC at the end of each month and the composite TP concentration for each sampling event

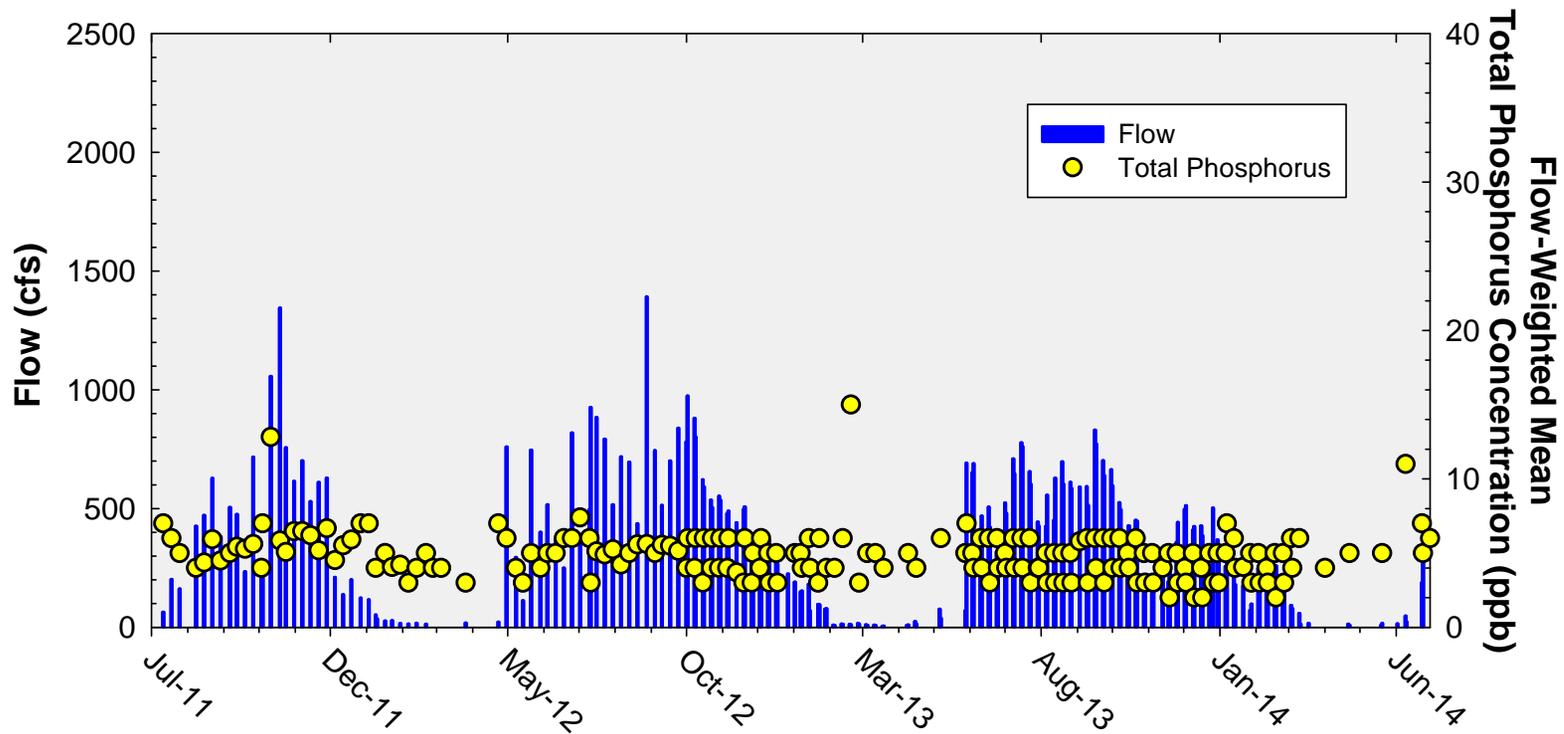
Daily Flows at Taylor Slough and Coastal Basins structures into the ENP



Daily Flows at individual Taylor Slough and Coastal Basins structures into the ENP



Taylor Slough and Coastal Basins Sampling Event Flow and FWMC



Flow at Taylor Slough and Coastal Basins structures and the corresponding TP FWMCs for individual sampling events

Thank You

