



SETTLEMENT AGREEMENT REPORT

January – March 2015

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Bureau Chief
Water Quality Bureau
Water Resources Division

Technical Oversight Committee
July 28, 2015



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					
Jan 2015	8.1	7.9	16.92	14	
Feb 2015	5.5	8.9	16.67	14	
Mar 2015	7.0	9.3	16.57	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					
Jan 2015	The quarterly flow and TP data for this table are posted separately on the TOC website. The annual compliance result for the 12-month flow-weighted mean TP concentration for the federal water year ending on September 30 will be published in this report when the final approved flow data are available.				
Feb 2015					
Mar 2015					
Everglades National Park – Taylor Slough and Coastal Basins					
Jan 2015	194.8	4.4	11.0	53.1	1.5
Feb 2015	183.0	4.4	11.0	53.1	1.6
Mar 2015	181.4	4.4	11.0	53.1	1.6

Refuge TP Compliance Tracking

For January 2015 – July 2015

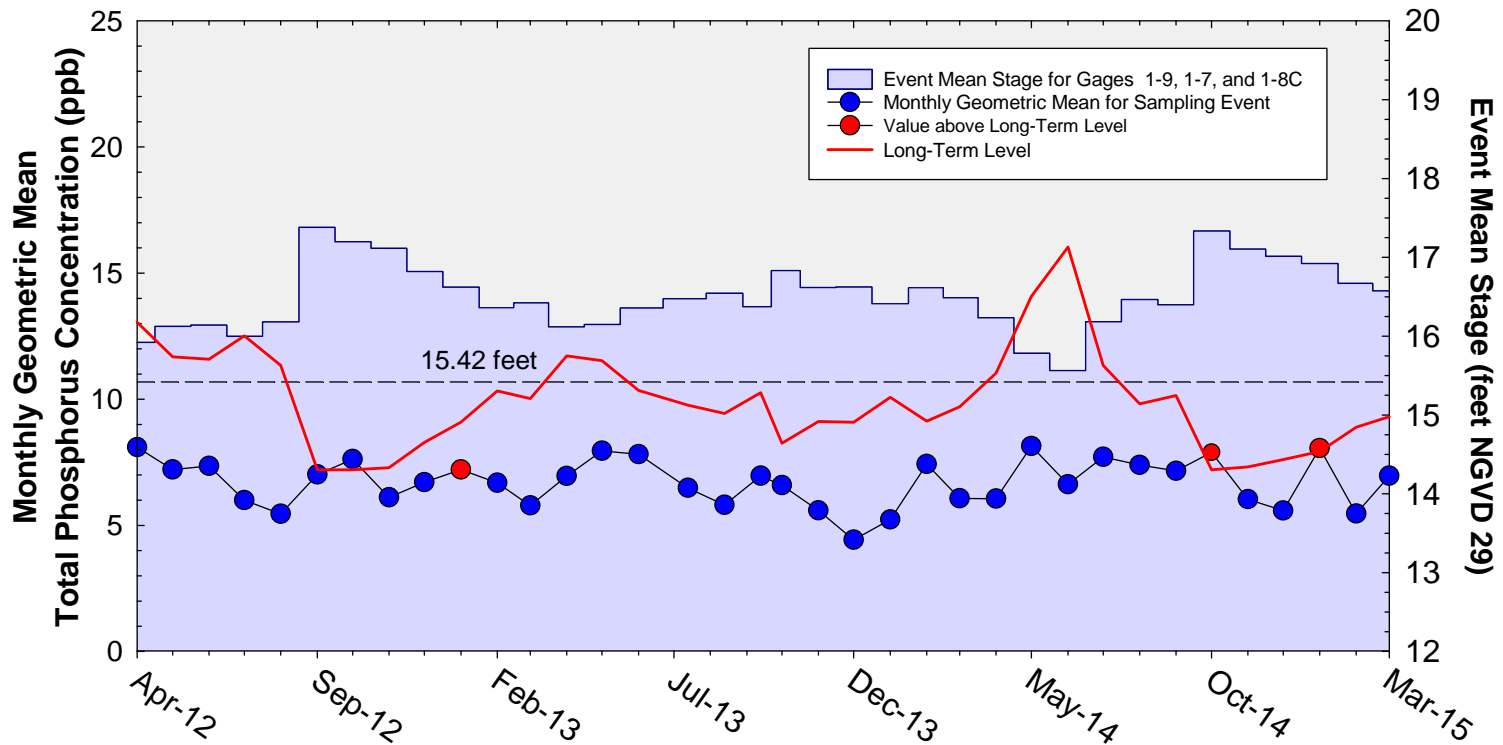
Month	Geometric Mean TP Concentration (ppb)	Long-Term Level (ppb) Effective 12/31/2006	Average Stage (feet NGVD 29)	Number of Samples
Jan-2015	8.1*	7.9	16.92	14
Feb-2015	5.5	8.9	16.67	14
Mar-2015	7.0	9.3	16.57	14
Apr-2015	7.6	11.0	16.25	12
May-2015	8.2	13.1	15.91	10
Jun-2015	9.7	15.3	15.65	5

Note: April to July 2015 values are preliminary.

* January 2015 geometric mean was higher than the long-term level for the month. October 2014 geometric mean was also higher than the long-term level for the month.

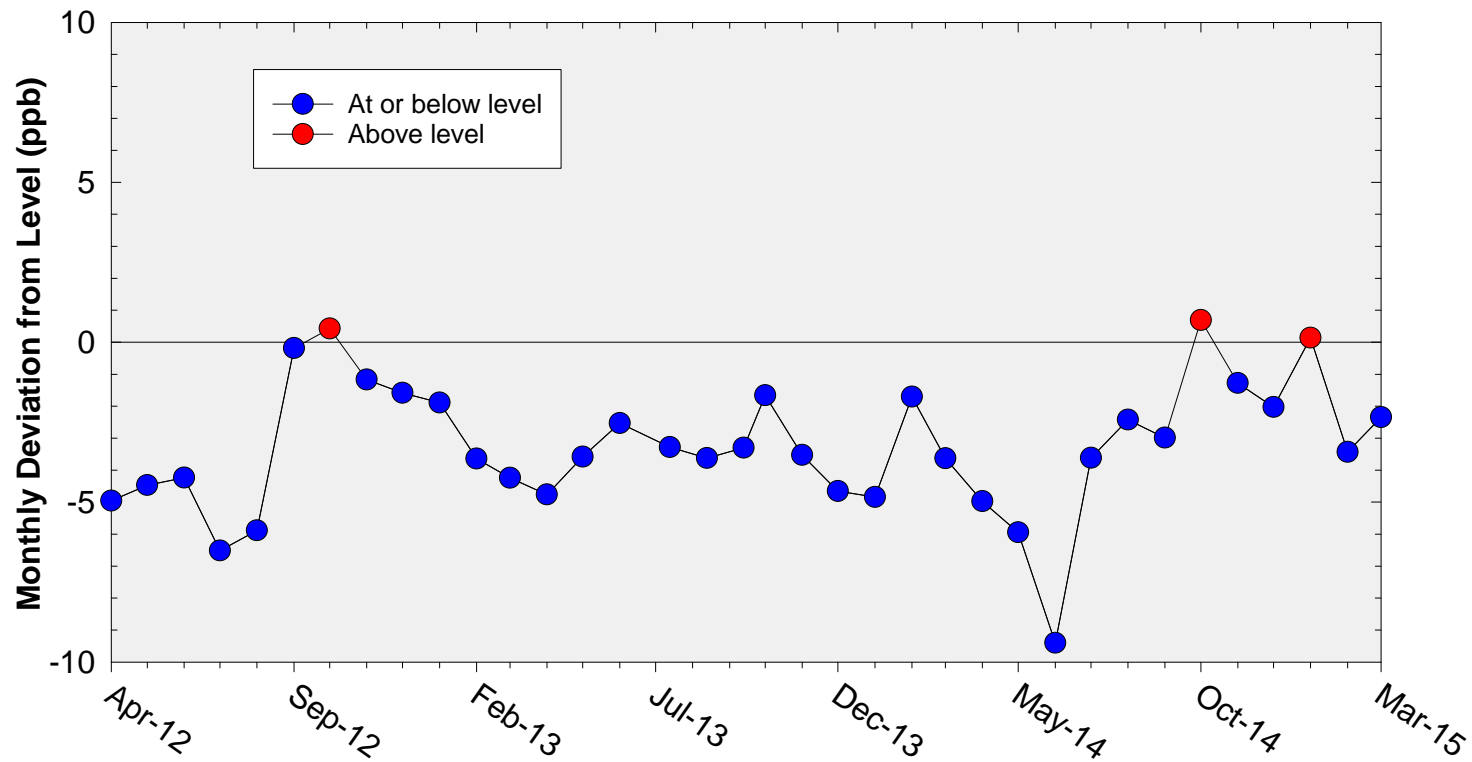
A.R.M Loxahatchee National Wildlife Refuge

Monthly Total Phosphorus Geometric Mean Concentrations



A.R.M Loxahatchee National Wildlife Refuge

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



Shark River Slough

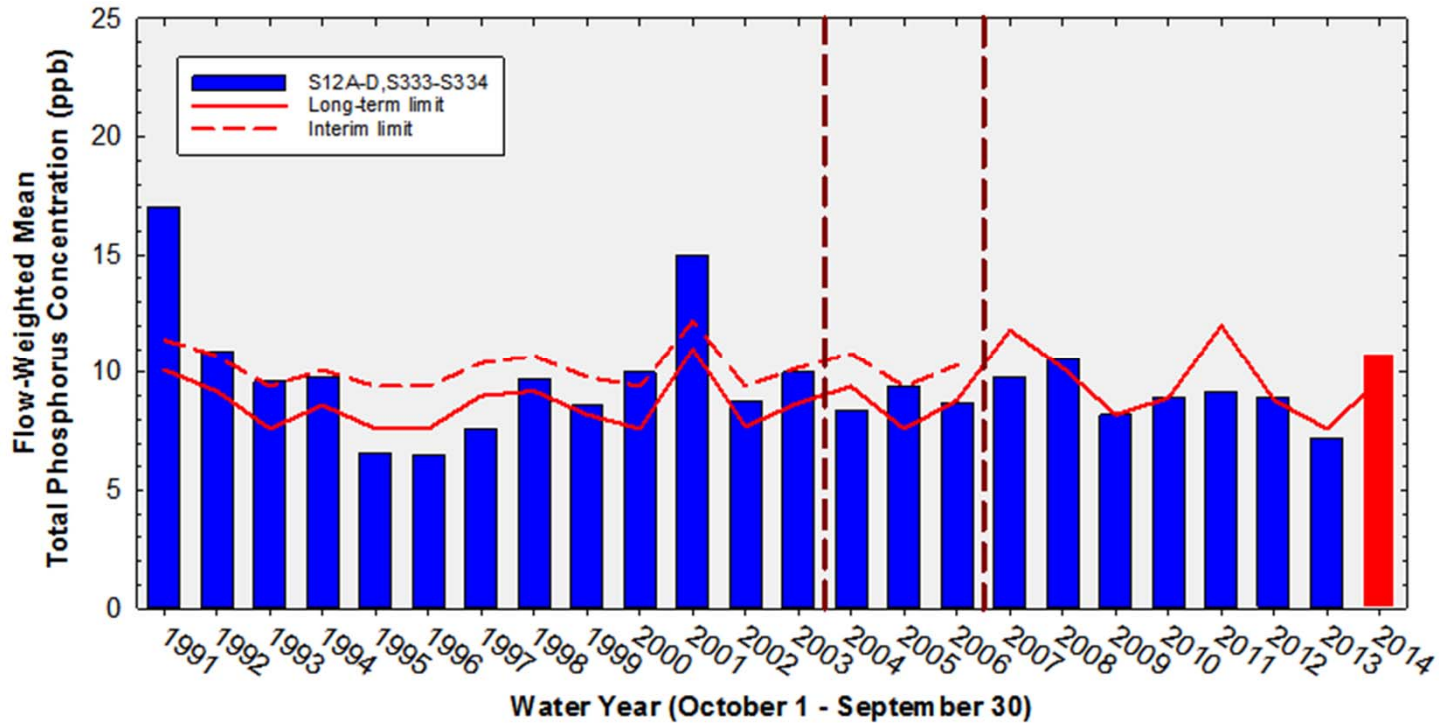
TP Concentration Compliance Interim Tracking for January 2015 – March 2015

(October 2014 – March 2015 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
Feb 2014 - Jan 2015	595.8	11.6	10.0	52.2	37.5
Mar 2014 - Feb 2015	567.8	11.8	10.2	53.1	37.5
Apr 2014 - Mar 2015	521.6	12.0	10.4	54.5	41.7

Note: All values are preliminary.

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

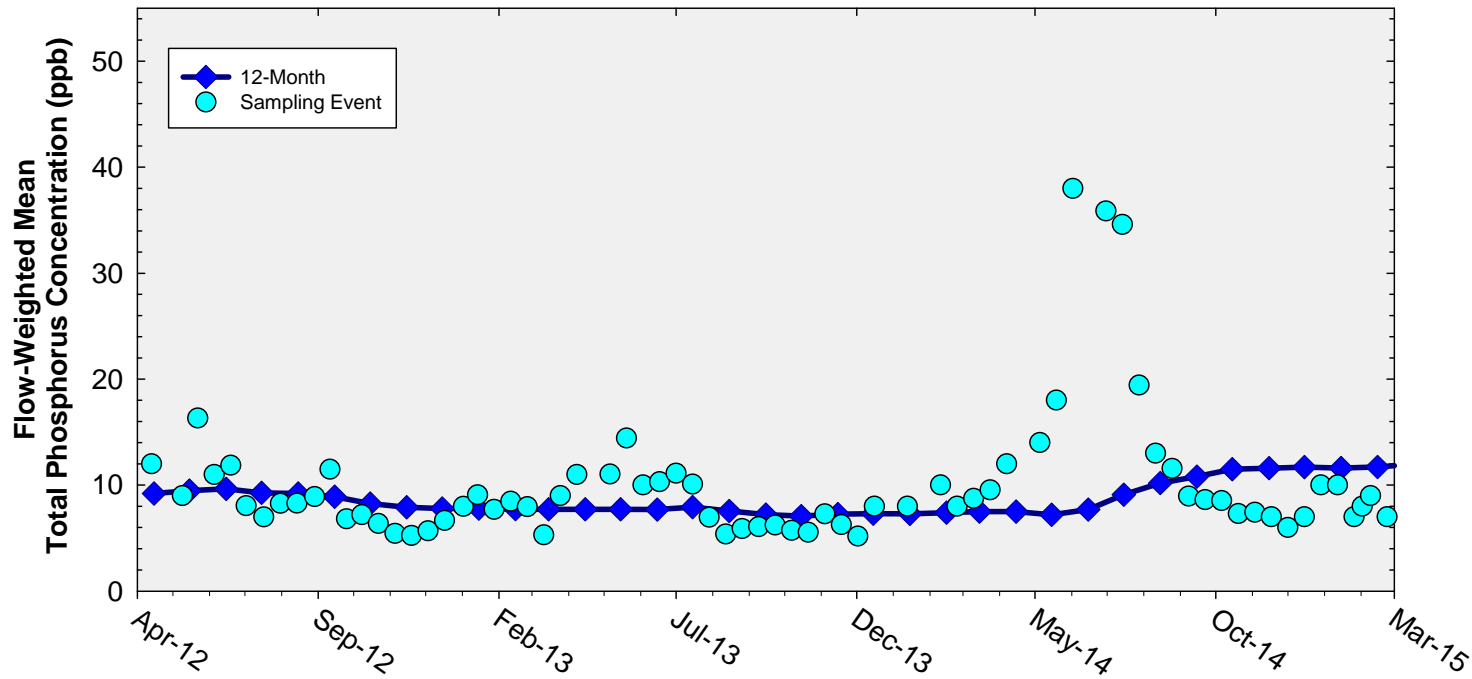


12-month FWMC at the end of each water year compared to the TP interim and long-term limits

Flow-Weighted Mean Concentrations

Inflows to ENP through Shark River Slough

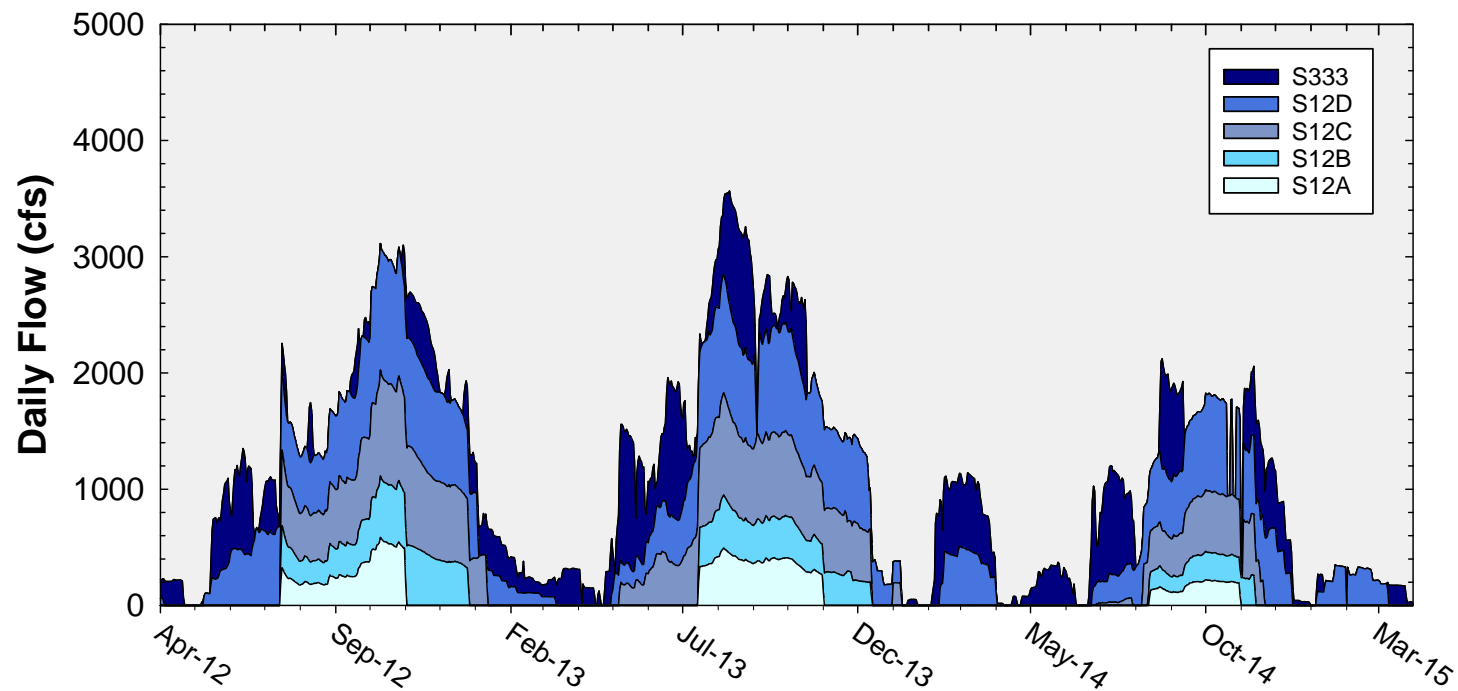
(October 2014 – March 2015 Flow Data for S12s are Provisional)



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

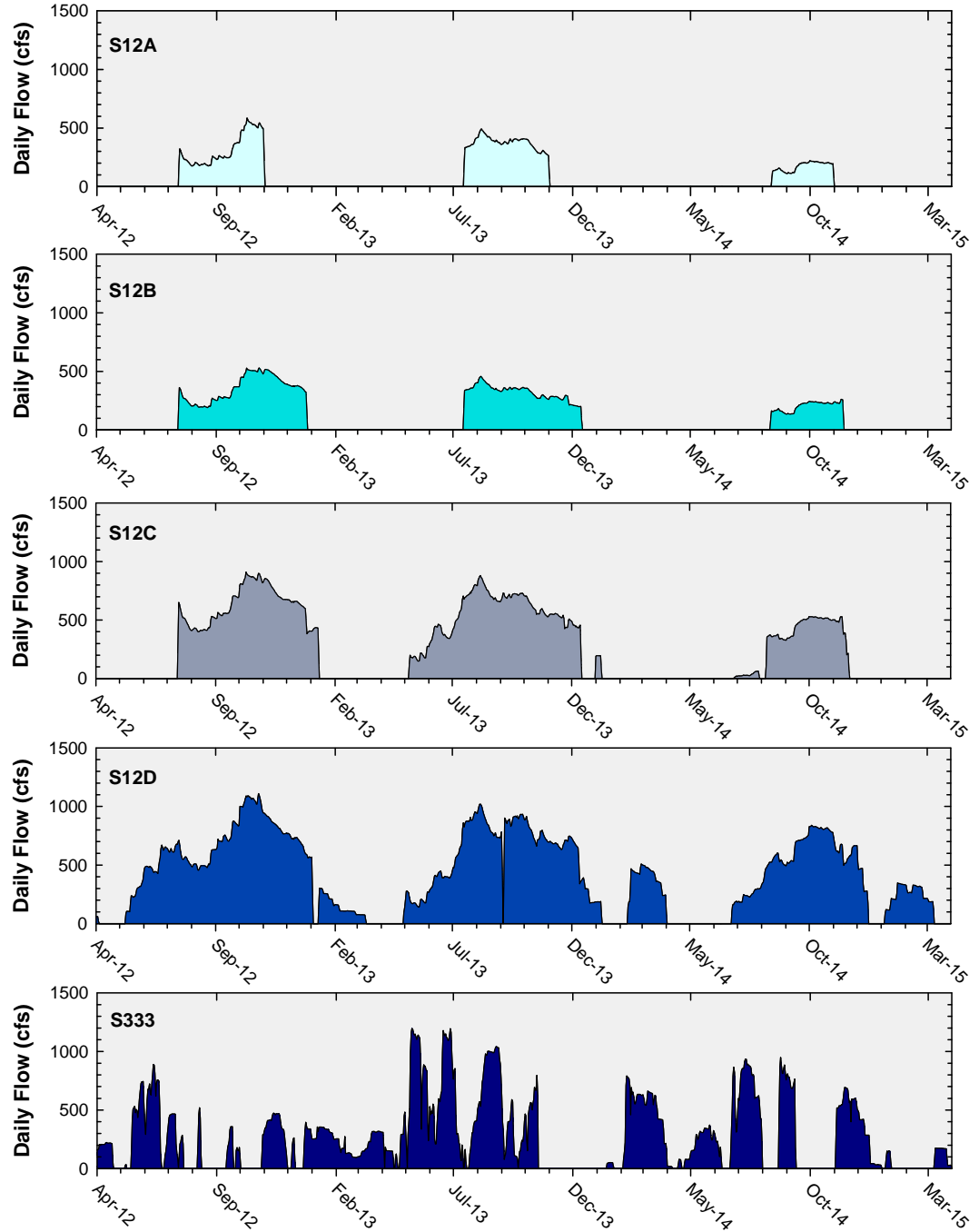
Shark River Slough Daily Flows

(October 2014 – March 2015 Flow Data for S12s are Provisional)

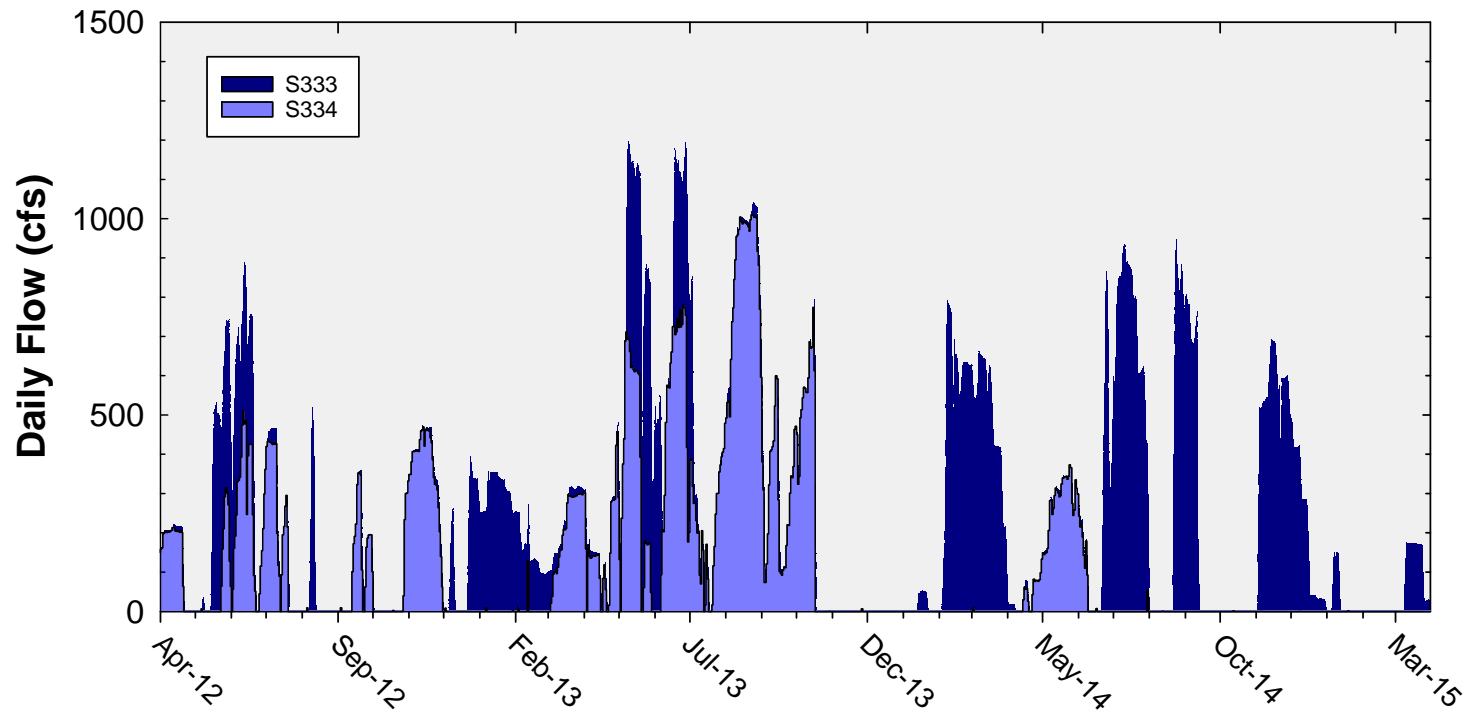


Daily Flows at Individual Inflow Structures to Shark River Slough

(October 2014 – March 2015
Flow Data for S12s are
Provisional)



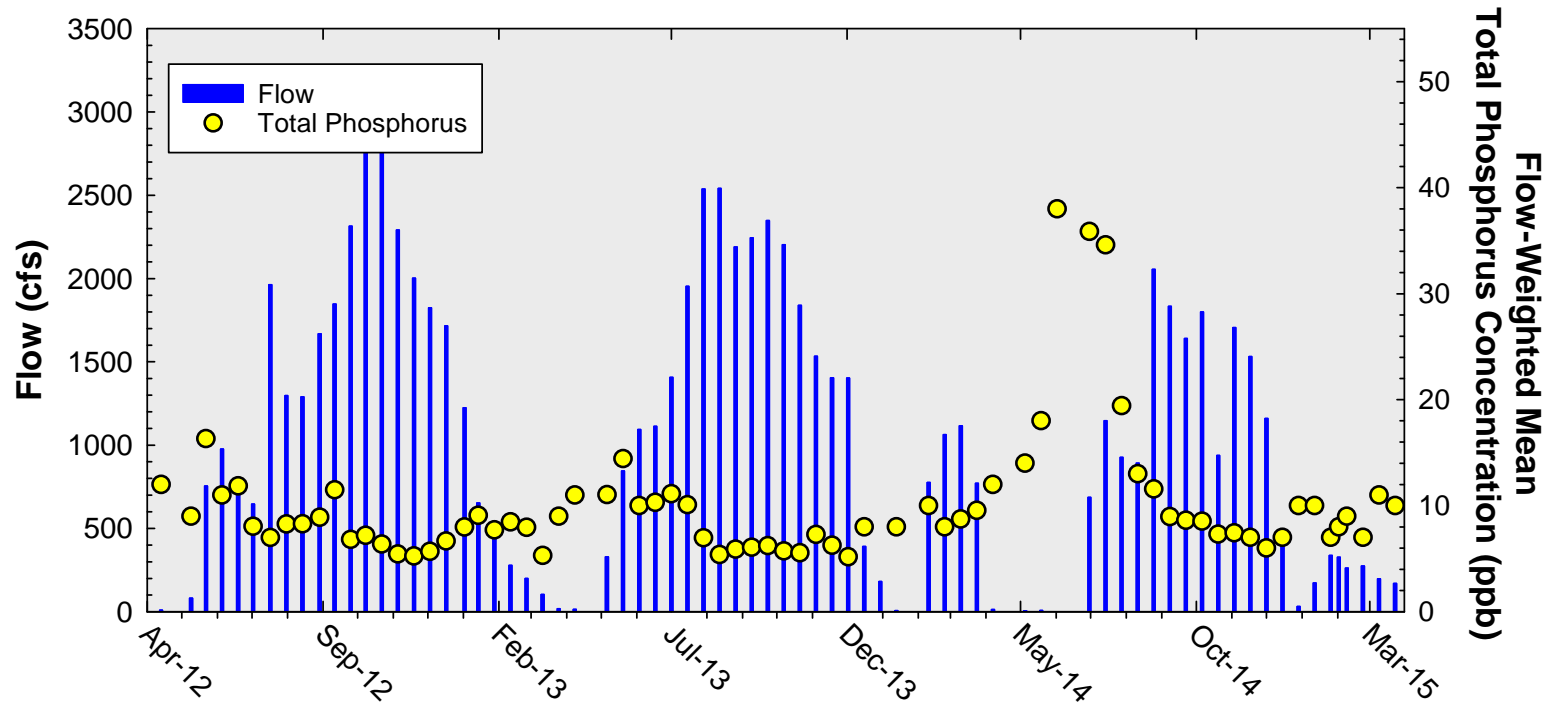
Daily Flows at S333 and S334



Shark River Slough

Sampling Event Flow and FWMC

(October 2014 – March 2015 Flow Data for S12s are Provisional)



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

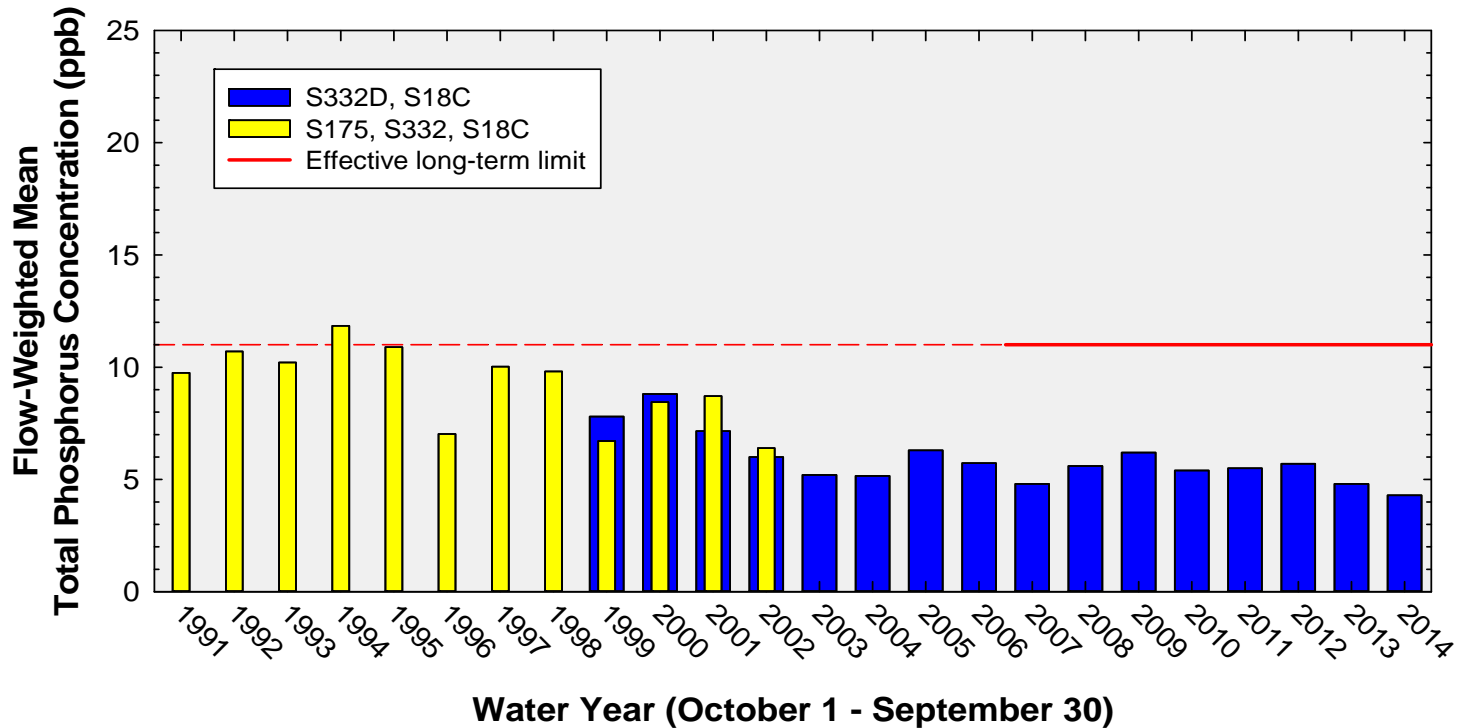
Taylor Slough and Coastal Basins

TP Concentration Compliance Tracking

for January 2015 – March 2015

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
Feb 2014 - Jan 2015	194.8	4.4	11.0	53.1	1.5
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Annual Flow-Weighted Mean Concentrations Inflows to the ENP through Taylor Slough and Coastal Basins

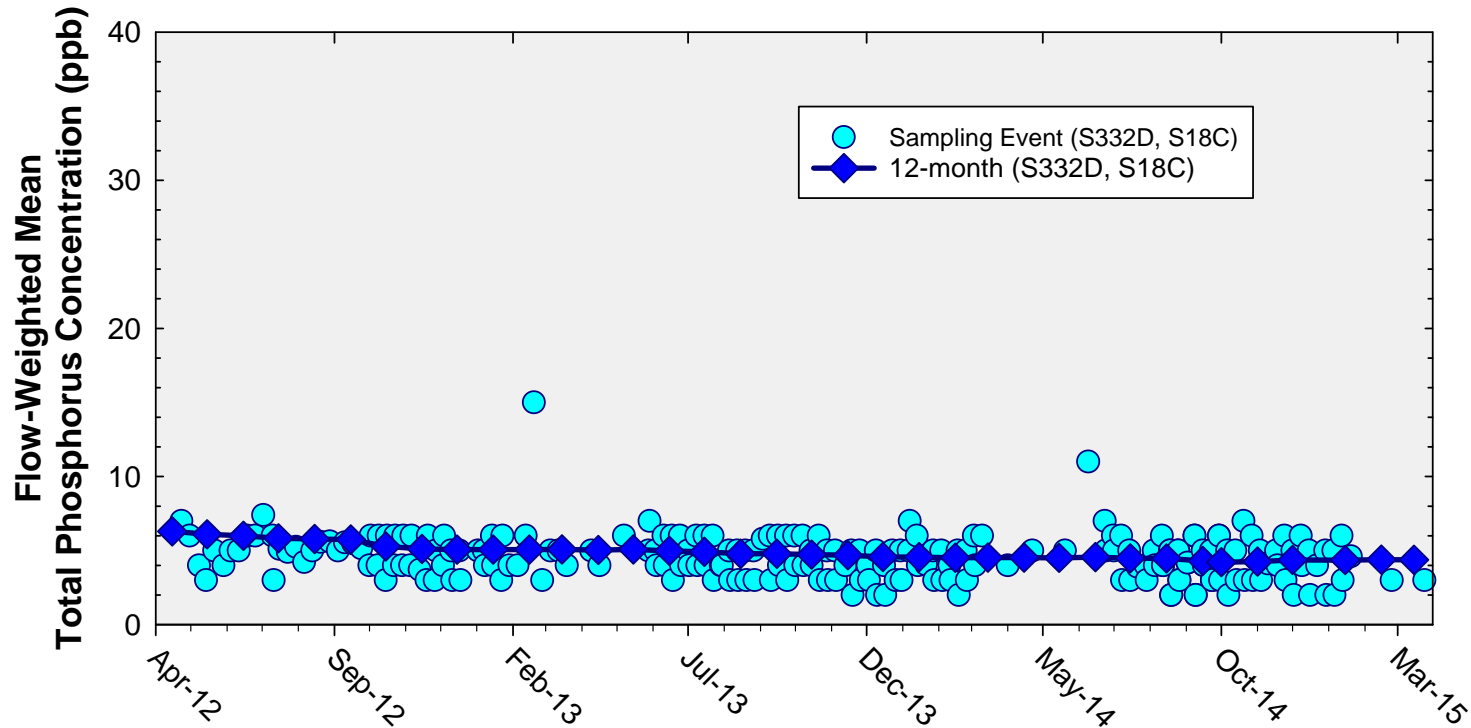


The 12-month FWMC at the end of each water year compared to the 11 ppb long-term TP limit

Note: Blue shows S332D, S18C & S174 until September 2007 when S174 was plugged.

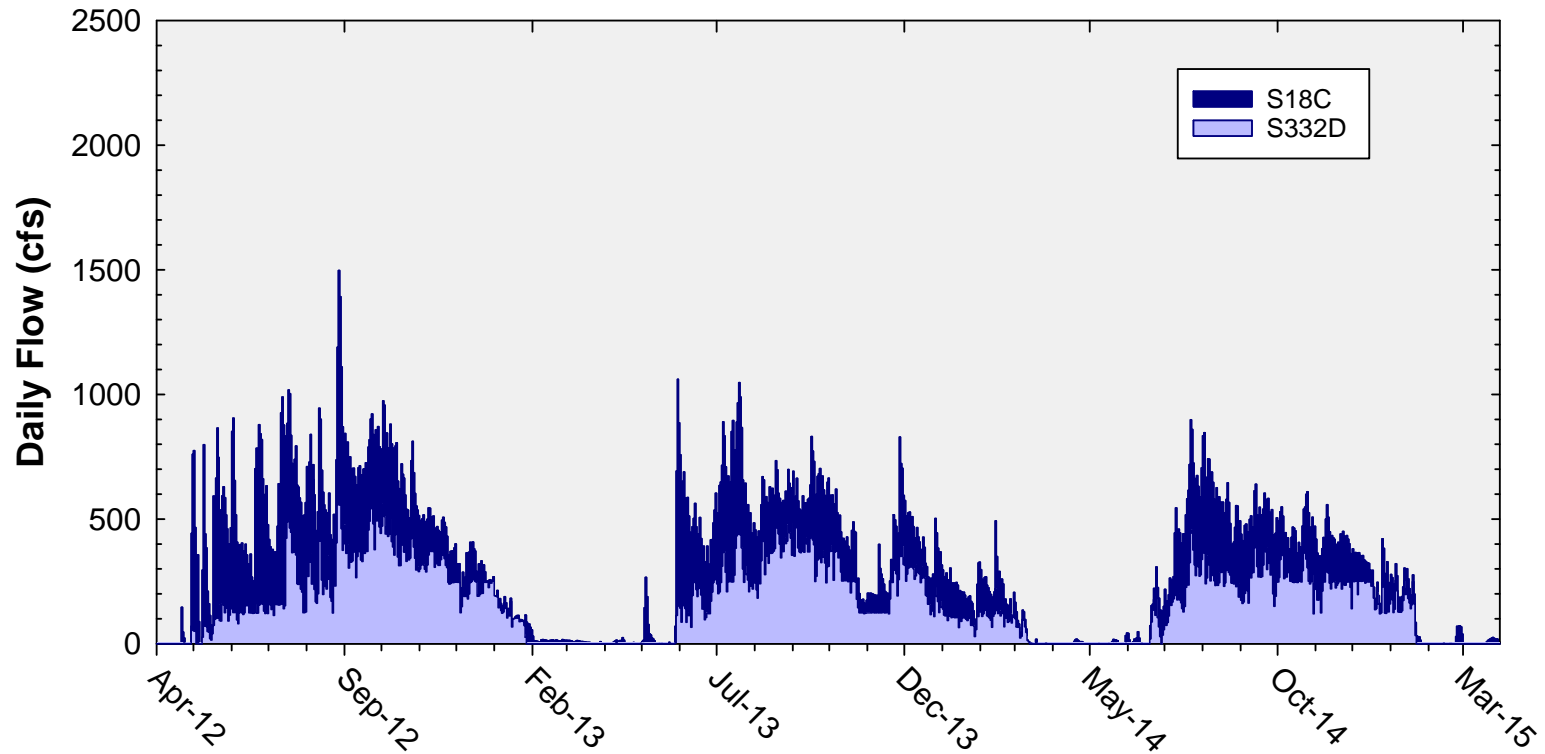
Flow-Weighted Mean Concentrations

Inflows to the ENP through Taylor Slough and Coastal Basins

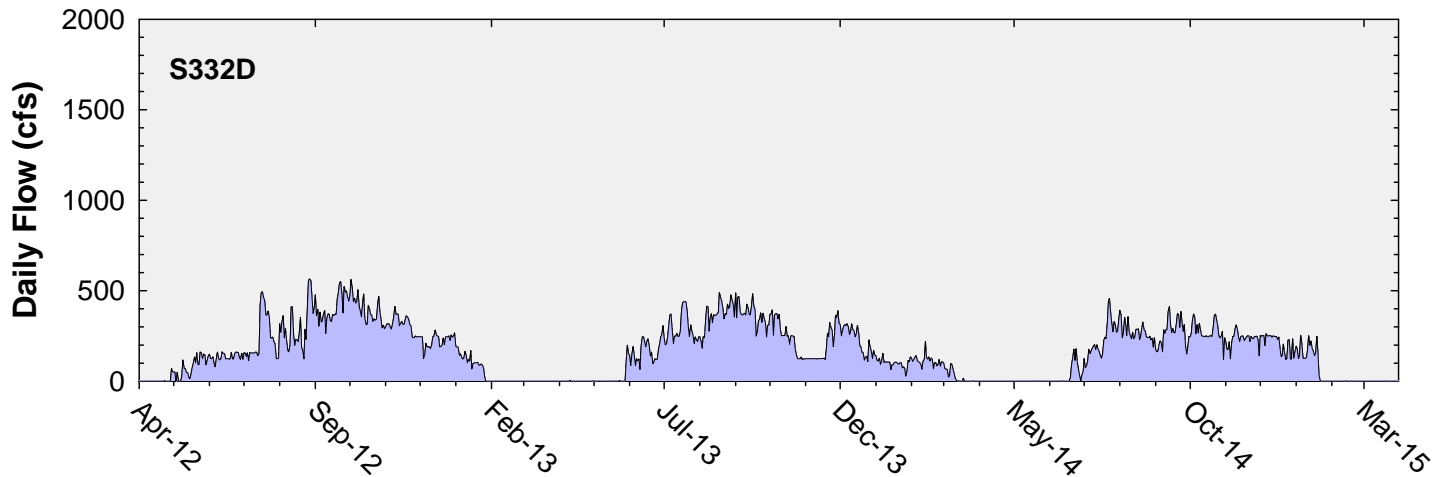
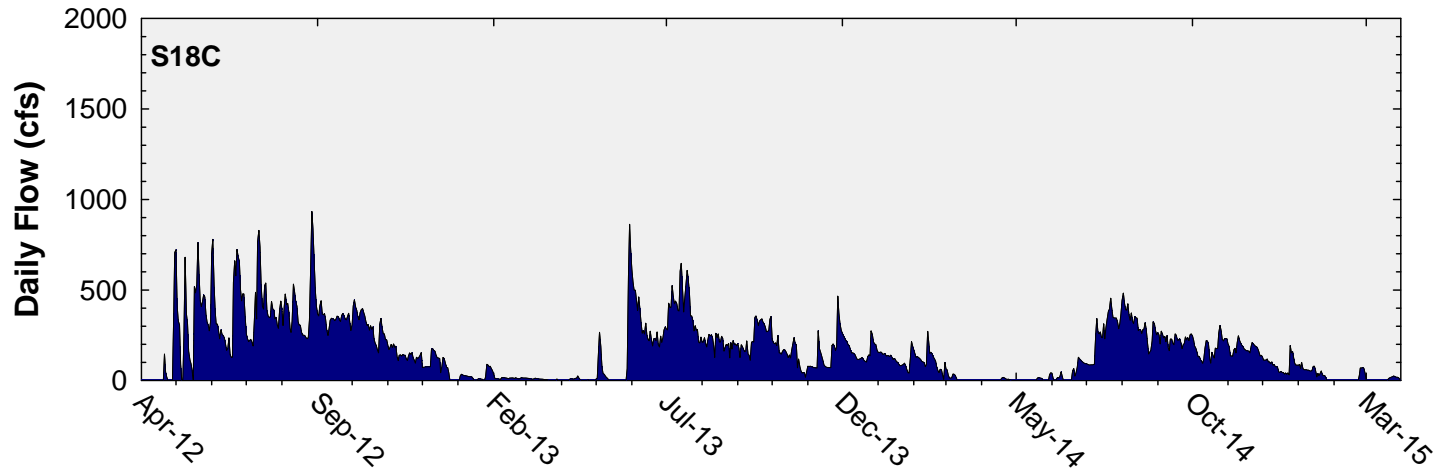


The 12-month FWMC at the end of each month and the composite TP concentration for each sampling event

Daily Flows at Taylor Slough and Coastal Basins Structures into ENP

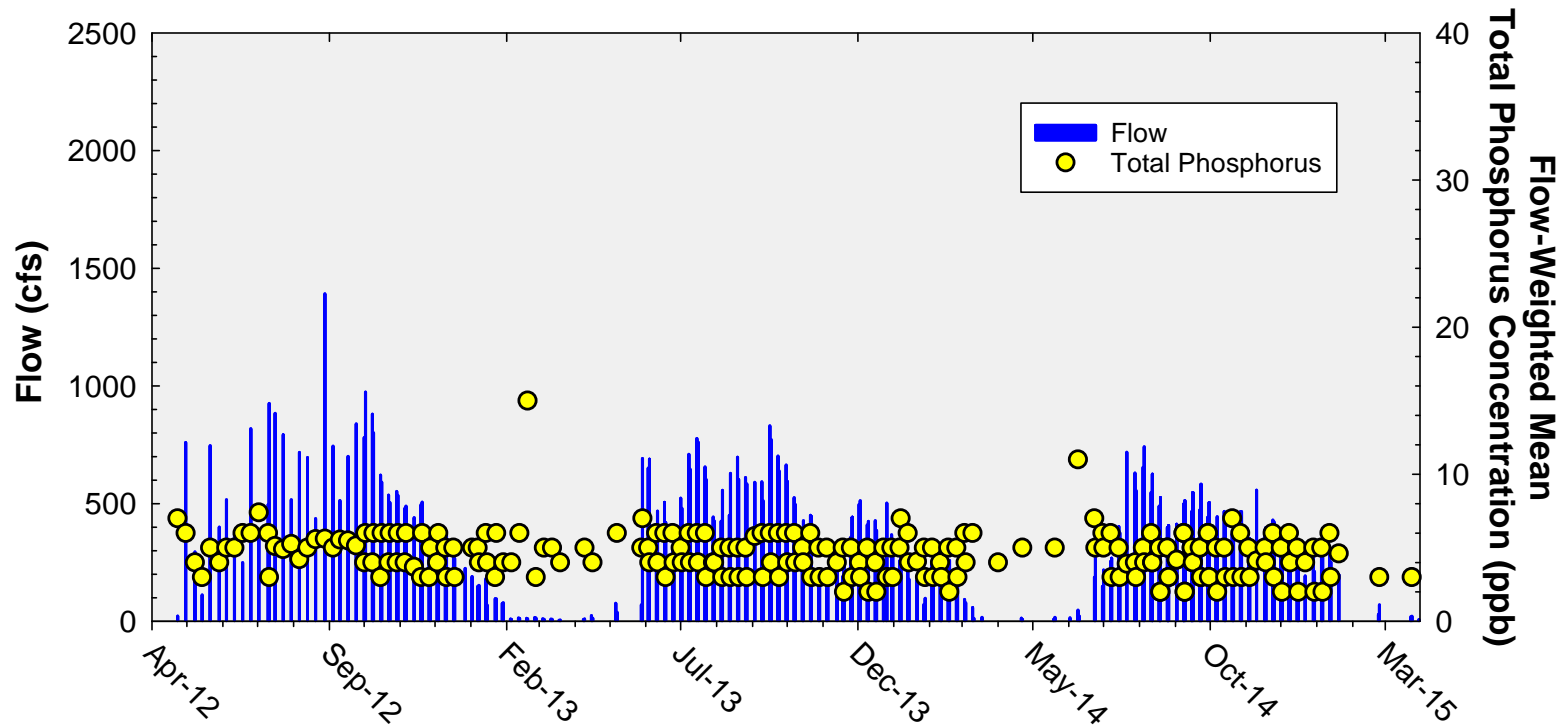


Daily Flows at Individual Taylor Slough and Coastal Basins Structures into ENP



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

