

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

SUMMARY

Month	Mean Stage (ft NGVD29)	Long-Term Level (ppb)	Geometric Mean TP Concentration (ppb)	Number o	f Samples	
	Arthur R. Marshall Loxahatchee National Wildlife Refuge					
Oct-23	17.55	7.2	6.8	1	4	
Nov-23	17.15	7.2	6.3	8	3	
Dec-23	17.29	7.2	6.9	14		
12-Month Period Ending	Total Flow (kac-ft)	Long-Term Limit	12-Month TP FWMC (ppb)	Percent of Sampling Event Greater than 10 ppb		
Period Ending	(KaC-IL)	(ppp)	FWMC (ppb)	Guideline (%)	Observed (%)	
Everglades National Park – Shark River Slough – PROVISIONAL DATA and RESULTS						
Oct-23	1,250.4	7.6	9.0	40.1	42.3	
Nov-23	1,251.2	7.6	9.1	40.1	46.2	
Dec-23	1,278.4	7.6	9.1	40.1	48.0	
Everglades National Park — Taylor Slough and Coastal Basins						
Oct-23	347.8	11.0	4.8	53.1	0.0	
Nov-23	358.2	11.0	4.8	53.1	0.0	
Dec-23	363.3	11.0	40	53.1	0.0	

 $\label{eq:FWMC} FWMC for SRS - computed as S12s+[S333+S333N+S355A+S355B+min(S356,S335)-S334]. \\ S334 flow is not excluded from the total flow for long-term limit calculations. \\$

FWMC for TS and CB – computed as (S332D-S332DX1–S328)+S328+G737+S18C.

3

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Refuge TP Compliance Tracking with Outlook

Month	Geometric Mean TP Concentration (ppb)	Long-Term Level (ppb) Effective 12/31/2006	Average Stage (feet NGVD29)	Number of Samples		
	4th Quarter 2023 Compliance Tracking					
Oct-2023	6.8	7.2	17.55	14		
Nov-2023	6.3	7.2	17.15	8		
Dec-2023	6.9	7.2	17.29	14		
Preliminary Data Outlook						
Jan-2024	4.3	7.2	17.44	14		
Feb-2024	6.1	8.1	16.87	14		
Mar-2024	6.9	8.3	16.82	14		
Apr-2024	6.7	10.5	16.32	12		
May-2024	10.6	14.2	15.78	6		

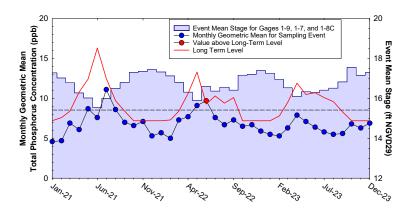
Note: 17.14 ft NGVD29 was used for the long-term level calculation when the average stage of the month exceeded the threshold of 17.14 ft.

Only 8 stations were sampled in November 2023 due to bad weather conditions at LOX6 and LOX11 through LOX16.

3

A.R.M Loxahatchee National Wildlife Refuge Monthly Total Phosphorus Geometric Mean Concentrations

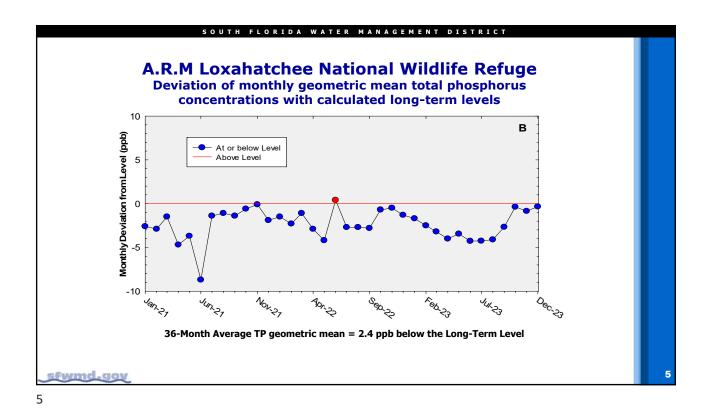
SOUTH FLORIDA WATER MANAGEMENT DISTRICT



36-Month Average TP Geometric Mean = 6.8 ppb 36-Month Average TP Long-term Level is = 9.2 ppb

T,

4



Shark River Slough TP Concentration Compliance Tracking and Outlook

WY2024 Flow Data for S12s are Provisional.

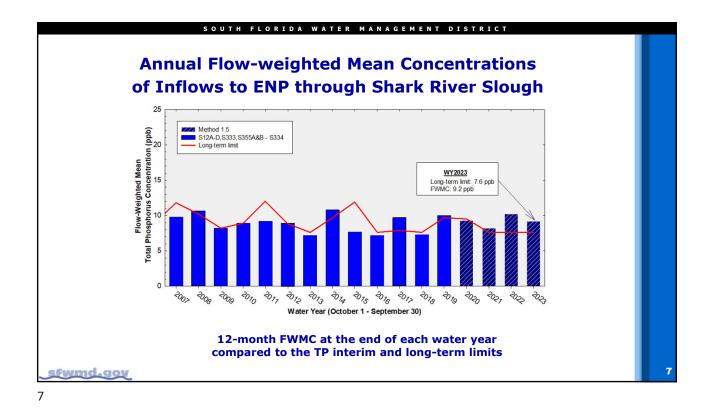
12-Month Period	Total Flow	Long-Term Limit (ppb)	Flow-Weighted Mean TP	Percent of Sampling Events Greater than 10 ppb		
	(kac-ft)	12/31/2006	Concentration (ppb)	Guideline (%)	Observed (%)	
4th Quarter 2023 Compliance Tracking						
Nov 2022 - Oct 2023	1,250.4	7.6	9.0	40.1	42.3	
Dec 2022 - Nov 2023	1,251.2	7.6	9.1	40.1	46.2	
Jan 2023 - Dec 2023	1,278.4	7.6	9.1	40.1	46.2	
Outlook						
Feb 2023 - Jan 2024	1,322.9	7.6	8.8	40.1	46.2	
Mar 2023 - Feb 2024	1,381.4	7.6	8.6	40.1	42.3	
Apr 2023 - Mar 2024	1,445.7	7.6	8.2	40.1	36.0	
May 2023 - Apr 2024	1,493.8	7.6	7.9	40.1	28.0	
Jun 2023 - May 2024	1,486.0	7.6	7.6	40.1	28.0	

Shark River Slough PROVISIONAL RESULTS:

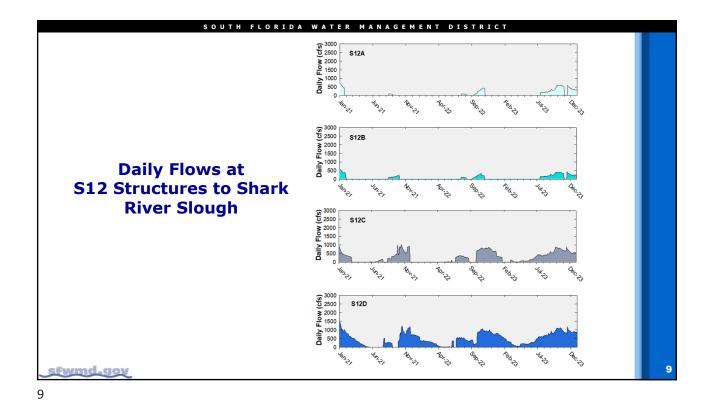
FWMC computed as S12A + S12B + S12C + S12D + [S333 + S333N + S355A + S355B + minimum of (S356, S335) - S334] using all flow and TP grabs on bi-weekly compliance sampling dates.

S334 flow was not excluded from the flow for long-term limit calculations.

6

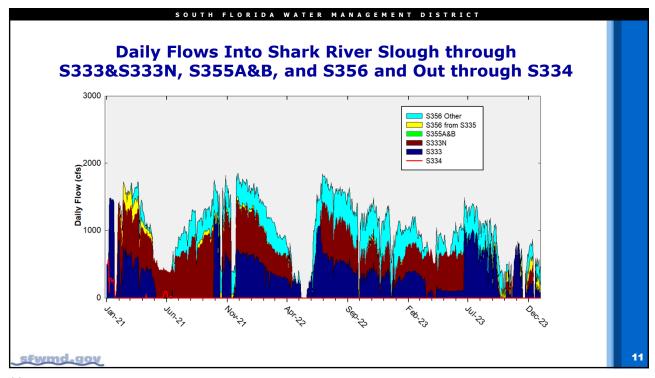


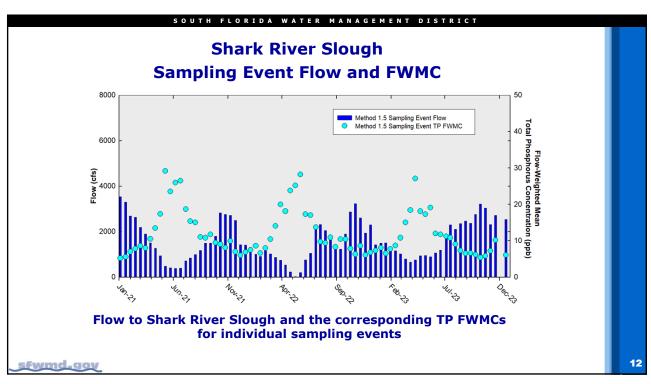
SOUTH FLORIDA WATER MANAGEMENT DISTRICT **Shark River Slough Structure Daily Flows** WY2024 Flow Data for S12s are Provisional. 10000 S356 from S335 S355A&B 8000 S333N S333 S12D Daily Flow (cfs) 6000 ■ S12C S12B □ S12A 4000 2000 0 -Feb. 23 Jun-21 Jan-21 Apr. 20 sfwmd.gov

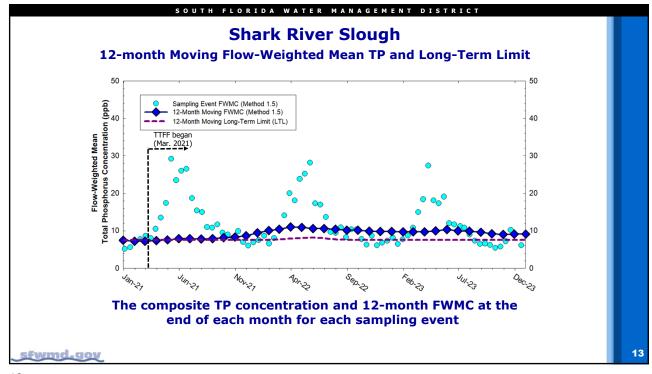


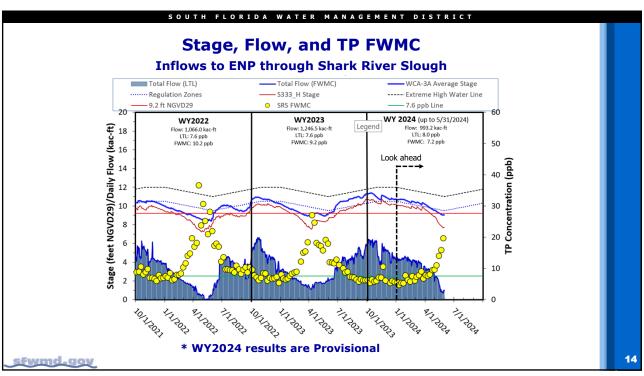
SOUTH FLORIDA WATER MANAGEMENT Daily Flow (cfs) **S**333 1500 1000 Daily Flow (cfs)
0001
0002
0002
0003 S333N **Daily Flows at Individual Inflow Structures to Shark River Slough** Daily Flow (cfs) Minimum (\$356,\$335) S356 (Note: There was no flow at S355A or S355B during the period) Daily Flow (cfs) S355A & S355B 50

10









SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Taylor Slough and Coastal Basins

TP Concentration Compliance Tracking

12-Month Period	Total Flow (kac-ft)	Flow-Weighted Mean TP Concentration in ppb LTL = 11.0 ppb Effective 12/31/2006	Observed Percent of Sampling Events Greater than 10 ppb Guideline = 53.1%
Nov 2022 - Oct 2023	347.8	4.8	0.0
Dec 2022 - Nov 2023	358.2	4.8	0.0
Jan 2023 - Dec 2023	363.3	4.8	0.0

FWMC computed as [(S332D-S332DX1-S328)+S328+G737+S18C] using all flow and TP grabs on weekly sampling.

Total flow is (S332D-S332DX1)+G737+S18C]

sfwmd.gov

15

15

