Settlement Agreement Report

Third Quarter 2024 July - September

Prepared for the Technical Oversight Committee

June 16, 2025 (Original: February 21, 2025)



This report has been revised from earlier versions to include Shark River Slough compliance results using the final approved flow data for federal Water Year 2024 (October 1, 2023 – September 30, 2024)

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PURPOSE

The South Florida Water Management District has prepared this report to provide a quarterly update to the Everglades Technical Oversight Committee on the compliance status with total phosphorus levels or limits defined in the 1991 Settlement Agreement, entered as a Consent Decree in 1992, and modified in 1995. The areas of interest in this report include the interior marsh stations in the Arthur R. Marshall Loxahatchee National Wildlife Refuge and two discharges to Everglades National Park: inflows to Shark River Slough and inflows to Taylor Slough and Coastal Basins.

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ACRONYMS AND ABBREVIATIONS

micrograms per liter
cubic feet per second
Everglades Agricultural Area
Everglades National Park
Expansion
Florida Department of Environmental Protection
flow equalization basin
Elevation in feet relative to the National Geodetic Vertical Datum of 1929
flow-weighted mean concentration
thousand-acre feet
thousand-acre feet per year
National Geodetic Vertical Datum of 1929
Outstanding Florida Waters
parts per billion
Arthur R. Marshall Loxahatchee National Wildlife Refuge
stormwater treatment area
Everglades Technical Oversight Committee
total phosphorous
United States Army Corps of Engineers
water conservation area
wildlife management area
water year

EXECUTIVE SUMMARY

This report fulfills the South Florida Water Management District's reporting requirements under the 1991 Settlement Agreement, entered as a Consent Decree in 1992 and modified in 1995, for the third quarter of 2024 (July – September 2024). Total phosphorus (TP) compliance highlights for this period are summarized below for the Arthur R. Marshall Loxahatchee National Wildlife Refuge (Refuge) and inflows to Everglades National Park (ENP) (**Table 1** and **Figure 1**):

- **Refuge:** The geometric mean TP concentrations were below the long-term levels for July, August, and September 2024.
- Shark River Slough: The TP flow-weighted mean concentration (FWMC) was above the long-term limit (LTL) for the 12-month period ending on September 30, 2024. Therefore, SRS TP FWMC exceeded the LTL during the federal Water Year (WY), WY2024 (October 1, 2023 September 30, 2024).
- **Taylor Slough and Coastal Basins:** All three 12-month TP FWMCs were below the 12-month LTL of 11 parts per billion (ppb) during the third quarter.
- **Table 1.** Third quarter 2024 TP compliance results for the Refuge, TP calculation final tracking results for Shark River Slough, and TP calculation tracking results for Taylor Slough and Coastal Basins.

Month	Mean Stage (ft NGVD29)	Long-Term Level (ppb)	Geometric Mean TP Concentration (ppb)	Number	of Samples					
Arthur R. Marshall Loxahatchee National Wildlife Refuge										
Jul-24	16.52	9.6	9.0		14					
Aug-24	16.58	9.3	8.2		13					
Sep-24	16.79	8.4	7.1		14					
12- Month	Total Flow	Long-Term	12-Month TP	Percent o Events Gre p	f Sampling ater than 10 pb					
Ending	(кас-п)	Limit (ppb)	гиимс (ррв)	Guideline (%)	Observed (%)					
	Everg	lades National Pa	ark – Shark River S	Blough						
Jul-24	1531.0	7.6	7.9	40.1	20.0					
Aug-24	1534.3	7.6	8.0	40.1	20.0					
Sep-24	1521.8	7.6	8.0	40.1	20.0					
	Everglades N	ational Park – Ta	aylor Slough and C	oastal Basins						
Jul-24	406.3	11.0	5.0	53.1 0						
Aug-24	405.7	11.0	5.2	53.1	0.0					
Sep-24	430.5	11.0	5.2	53.1	0.0					

Notes:

• Key to units: ppb – parts per billion (values are actually in micrograms per liter [μ g/L], which, for the purposes of this report, are equivalent to ppb); ft NGVD29 – elevation in feet relative to the National Geodetic Vertical Datum of 1929; and kac-ft – thousand-acre feet.

• Compliance for inflows to ENP (Shark River Slough; Taylor Slough and Coastal Basins) is evaluated annually based on the 12-month TP FWMC for the federal water year ending on September 30. As adopted by the Everglades Technical Oversight Committee (TOC) in August 2020, the compliance calculation results shown used "Method 1.5" for Shark River Slough and "Method 3" for Taylor Slough and Coastal Basins. Details about these calculation methods are provided later in this report.



Figure 1. Areas of interest.

ARTHUR R. MARSHALL LOXAHATCHEE NATIONAL WILDLIFE REFUGE

Background

The 1991 Settlement Agreement ended the Everglades lawsuit and was entered into by the federal government, the State of Florida, and the South Florida Water Management District. The subsequent Consent Decree, as modified in 1995, specified that interim and long-term TP concentration levels for the Refuge must be met by February 1, 1999, and December 31, 2006, respectively. Both the interim and long-term concentration levels vary monthly because they are calculated as a function of water stage measured at gaging stations 17, 18C, and 19, within the Refuge. The stage range within which the interim and long-term concentration levels are applicable is 15.42 to 17.14 elevation in feet relative to the National Geodetic Vertical Datum of 1929 (ft NGVD29). The monthly TP concentrations are determined from water samples collected at 14 interior marsh stations, LOX3 through LOX16 (**Figure 2**). As required in the Consent Decree, the concentrations are converted to a geometric mean, which is compared to the long-term concentration level. Monthly TP data for each station for the past 36 months are provided in Appendix A. The calculation methods specified in the Consent Decree are provided in Appendix D.

Reporting Period Update

During the months of July and September, all 14 samples were collected. In August, one sample (LOX3) was not collected because the site's water level was too shallow. (Table A-1).

Sampling day average stages in the Refuge were 16.52, 16.58, and 16.79 ft NGVD29 in July, August, and September 2024 (Figure 3 and Table 2). The geometric means calculated from TP concentrations measured in water samples collected in July, August and September, were 9.0. 8.2, and 7.1, respectively, which were below the long-term levels.



Figure 2. Refuge water quality sampling and stage measurement stations.



Figure 3. A. Monthly TP geometric mean concentrations for the Refuge compared to calculated long-term levels, which are adjusted for fluctuations in stage. The geometric mean TP concentration was above the long-term level in September 2020 and in June 2022. B. Deviation of monthly geometric mean TP concentrations from calculated long-term levels. Negative values indicate that the geometric mean was lower than the long-term level.

Month	Average Stage (ft NGVD29)	Long-Term Level (ppb)	Geometric Mean TP Concentration (ppb)	Number of Samples
Oct-2021	17.30	7.2	6.6	14
Nov-2021	17.35	7.2	7.1	14
Dec-2021	17.44	7.2	5.3	14
Jan-2022	17.32	7.2	5.7	14
Feb-2022	17.12	7.3	5.0	13
Mar-2022	16.80	8.4	7.3	14
Apr-2022	16.31	10.6	7.7	13
May-2022	15.89	13.3	9.1	7
Jun-2022	16.59	9.3	9.7	14
Jul-2022	16.36	10.3	7.6	12
Aug-2022	16.56	9.4	6.7	13
Sep-2022	16.41	10.1	7.3	11
Oct-2022	17.16	7.2	6.5	14
Nov-2022	17.20	7.2	6.7	14
Dec-2022	17.39	7.2	5.9	14
Jan-2023	17.25	7.2 5.5		14
Feb-2023	16.95	7.8	5.3	14
Mar-2023	16.53	9.5	6.3	13
Apr-2023	16.22	11.1	7.9	10
May-2023	16.24	11.0	7.1	14
Jun-2023	16.30	10.7	6.4	14
Jul-2023	16.41	10.1	5.8	14
Aug-2023	16.51	9.6	5.5	14
Sep-2023	16.82	8.3	14	
Oct-2023	17.55	7.2	6.8	14
Nov-2023	17.15	7.2	6.3	8
Dec-2023	17.29	7.2	6.9	14
Jan-2024	17.44	7.2	4.3	14
Feb-2024	16.87	8.1	6.1	7
Mar-2024	16.82	8.3	6.9	14
Apr-2024	16.32	10.5	6.7	12
May-2024	15.78	14.2	11.0	6
Jun-2024	15.09	N/A	No data	0
Jul-2024	16.52	9.6	9.0	14
Aug-2024	16.58	9.3	8.2	13
Sep-2024	16.79	8.4	7.1	14

2. Refuge TP compliance tracking.

Notes:

• Key to units: ppb – parts per billion (values are actually in micrograms per liter [µg/L], which, for the purposes of this report, are equivalent to ppb); and ft NGVD29 – elevation in feet relative to the National Geodetic Vertical Datum of 1929.

• Average stage is calculated using the stage elevations at stations 1-7, 1-8C, and 1-9 for the given sampling dates.

• The yellow shading indicates an excursion over the long-term level for the month.

• The green shading indicates that the Long-Term Level for the month is not applicable (N/A) because the average stages were below 15.42 feet NGVD29.

EVERGLADES NATIONAL PARK

Shark River Slough

Background

The Settlement Agreement/Consent Decree (1995) specified that interim and long-term TP concentration limits for discharges into ENP (**Figure 4**) through Shark River Slough be met by October 1, 2003, and December 31, 2006, respectively. It was specified that the TP levels be presented as 12-month FWMCs. Only the TP concentrations for the water year ending on September 30 are evaluated for compliance with the Consent Decree limits (Appendix D). Inflow concentrations of TP through S12A, S12B, S12C, S12D, S333, S355A, and S355B were compared to the interim and long-term limits at the end of each federal water year (October 1 through September 30). The long-term limit went into effect in WY2007.

The frequency of routine monitoring was changed to weekly for all Shark River Slough sites beginning in August 2007. However, in accordance with Appendix A of the Consent Decree, from October 2007 forward only the grab concentration data from every other week for the FWMC calculations is being used. Weekly TP data for each station for the past 12-months are provided in Appendix B.

Pursuant to agreement among all Everglades Technical Oversight Committee (TOC) members at the May 14, 2013, TOC meeting, the following three changes were made to the quarterly Settlement Agreement Report: (1) publishing of the quarterly 12-month TP FWMCs for Shark River Slough is discontinued, (2) provisional quarterly 12-month TP FWMCs are posted separately to the TOC website, <u>https://www.sfwmd.gov/our-work/toc</u>, and (3) the annual 12-month TP FWMC for the water year ending on September 30 will be published once the final approved flow data for the S12A, S12B, S12C, and S12D structures become available. These changes were implemented beginning with the January – March 2013 first quarter report. Based on a vote by the TOC on July 19, 2016, provisional 12-month results are now included in the report.



Figure 4. ENP flow structures.

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The TOC has recognized that the S356 seepage return pump, which initiated operation under the United States Army Corps of Engineers (USACE) field test in fall 2015, is able to discharge water that originated from the water conservation areas (WCAs) to Shark River Slough. The Appendix A Sub-team was tasked with recommending an appropriate method for incorporating S356 into the compliance calculation. On August 11, 2020, the TOC voted to accept Method 1.5 as the official reporting method for evaluating compliance for Shark River Slough under Appendix A. Method 1.5 describes a collective TP FWMC computed as the flow-weighted combination of each of S12A, S12B, S12C, and S12D's flow and TP together with each of the TP results and adjusted inflows through the L-29 Canal to Shark River Slough. The inflow structures include the S333, S355A, S355B, and the portion of S356 flow from S335, all reduced by the proportional volume exiting S334. The gated spillway S333N, located north of S333, discharges water from L-67A to the L-29 Canal east of S333, and is integrated into Method 1.5 as additional inflow to the L-29 Canal. Method 1.5 and the addition was approved by the TOC at the May 2021 quarterly meeting.

TP FWMC is computed as S12A + S12B + S12C + S12D + [S333 + S333N + S355A + S355B + minimum (S356, S335) – S334] using the concentration values of the biweekly compliance sampling events. S334 flow is not excluded from the total flow for long-term limit calculations. **Figure 5** represents the 12-month TP FWMCs from WY2007 through WY2024.



Figure 5. The 12-month TP FWMCs at inflows to ENP through Shark River Slough at the end of each water year compared to the long-term total phosphorus limits through WY2024.

The TP flow-weighted mean concentration (FWMC) was above the long-term limit (LTL) for the 12-month period ending on September 30, 2024. Therefore, SRS TP FWMC exceeded the LTL during the federal Water Year (WY), WY2024 (October 1, 2023 – September 30, 2024).

Reporting Period Update

Table 3 presents the 12-month FWMCs for each month with the corresponding long-term TP concentration limits calculated using the 12-month period flow.

For the 12-month period ending in July, August, and September 2024, the 12-month TP FWMCs calculated using Method 1.5 were 7.9, 8.0, and 8.0 ppb, respectively. The 12-month long-term limits, based on the total flow into Shark River Slough, were 7.6 ppb consistently (Table 3).

The Consent Decree stipulates that the percentage of TP FWMCs greater than 10 ppb from each sampling event in any 12-month period must not exceed a guideline value based on flow into Shark River Slough for the same 12-month period. For the 12-month period of WY2024, the observed sampling event TP concentrations greater than 10 ppb were 20%, which was lower than the guideline of 40.1%.

The 12-month tracking TP FWMCs and the TP FWMCs for individual sampling events are presented in **Figure 6**.

Daily flows through the individual Shark River Slough structures from October 2021 through September 2024 in cubic feet per second (cfs) are presented in **Figures 7** through **10**.

During WY2024, a total of 1,164 kac-ft of water was discharged through the S12 structures, 269 kac-ft of water was discharged through the S333 and S333N structures. There was no discharge through S355A or S355B. 89 kac-ft of water, which originated from S335, was pumped at S356 into Shark River Slough. No water from the L-29 Canal was discharged through S334 during WY2024 (**Figure 8**).

For additional information on the WCA-3A regulation schedule, please refer to the United States Army Corps of Engineers – Jacksonville District website¹.

The sum of the daily flows and corresponding TP FWMCs for individual sampling events at Shark River Slough structures is presented in **Figure 11**.

The third quarter water quality data for Shark River Slough are available in Appendix B of this report; the WY2024 monitoring data are posted separately to the TOC website².

¹ <u>https://w3.saj.usace.army.mil/h2o/plots/wca3ahp.pdf</u>

² <u>https://www.sfwmd.gov/our-work/toc</u>

Table 3. Shark River Slough TP compliance tracking. The values for the 12-month periods
ending in October 2023 to September 2024 are final.

12-Month	Total Flow	Long-Term	Flow-Weighted Mean TP	Percent of Sampling Events Greater than 10 ppb			
Period	(kac-ft)	Limit (ppb)	Concentration (ppb)	Guideline (%)	Observed (%)		
Nov 2020 - Oct 2021	1,710.7	7.6	8.3	40.1	50.0		
Dec 2020 - Nov 2021	1,479.2	7.6	8.7	8.7 40.1			
Jan 2021 - Dec 2021	1,238.5	7.6	9.5	40.1	50.0		
Feb 2021 - Jan 2022	1,128.9	7.6	10.1	40.1	48.1		
Mar 2021 - Feb 2022	1,055.1	7.7	10.4	40.3	51.9		
Apr 2021 - Mar 2022	997.4	7.9	11.0	41.5	57.7		
May 2021 - Apr 2022	954.1	8.1	10.9	42.5	57.7		
Jun 2021 - May 2022	932.8	8.2	10.6	43.0	57.7		
Jul 2021 - Jun 2022	974.2	8.0	10.6	42.1	57.7		
Aug 2021 - Jul 2022	1,055.7	7.7	10.4	40.2	53.8		
Sep 2021 - Aug 2022	1,082.5	7.6	10.2	40.1	46.2		
Oct 2021 – Sep 2022	1,066.0	7.6	10.2	40.1	50.0		
Nov 2021 - Oct 2022	1,090.7	7.6	9.9	40.1	50.0		
Dec 2021 - Nov 2022	1,096.6	7.6	9.8	40.1	50.0		
Jan 2022 - Dec 2022	1,088.7	7.6	9.8	40.1	50.0		
Feb 2022 - Jan 2023	1,080.9	7.6	9.7	40.1	50.0		
Mar 2022 - Feb 2023	1,080.1	7.6	9.7	40.1	50.0		
Apr 2022 - Mar 2023	1,078.7	7.6	9.7	40.1	50.0		
May 2022 - Apr 2023	1,099.8	7.6	10.0	40.1	50.0		
Jun 2022 - May 2023	1,149.6	7.6	10.3	40.1	50.0		
Jul 2022 - Jun 2023	1,156.3	7.6	10.0	40.1	50.0		
Aug 2022 - Jul 2023	1,146.3	7.6	9.9	40.1	51.9		
Sep 2022 - Aug 2023	1,175.1	7.6	9.6	40.1	50.0		
Oct 2022 - Sep 2023	1,246.5	7.6	9.2	40.1	42.3		
Nov 2022 - Oct 2023	1,267.8	7.6	9.0	40.1	42.3		
Dec 2022 - Nov 2023	1,268.8	7.6	9.1	40.1	46.2		
Jan 2023 - Dec 2023	1,295.6	7.6	9.1	40.1	48.0		
Feb 2023 - Jan 2024	1,339.4	7.6	8.9	40.1	48.0		
Mar 2023 - Feb 2024	1,396.3	7.6	8.6	40.1	44.0		
Apr 2023 - Mar 2024	1,459.2	7.6	8.3	8.3 40.1			
May 2023 - Apr 2024	1,507.8	7.6	7.9	7.9 40.1			
Jun 2023 - May 2024	1,499.9	7.6	7.7	40.1	28.0		
Jul 2023 - Jun 2024	1,500.0	7.6	8.0	40.1	28.0		
Aug 2023 - Jul 2024	1,531.0	7.6	7.9	40.1	20.0		
Sep 2023 - Aug 2024	1,534.3	7.6	8.0	40.1	20.0		
Oct 2023 - Sep 2024	1,521.8	7.6	8.0	40.1	20.0		

Notes:

• Key to units: kac-feet – thousand acre-feet and ppb – parts per billion (values are in micrograms per liter [µg/L], which, for the purposes of this report, are equivalent to ppb).

• Compliance is evaluated annually based on the 12-month TP FWMC for the federal water year ending September 30. The compliance periods are shown as highlighted rows with bold, italicized text.

• Tracking calculations use all flow and TP grabs on biweekly compliance sampling dates for FWM TP calculations and do not exclude S334 flow from the total flow for long-term limit calculations.



Figure 6. The 12-month TP FWMCs in inflows to ENP through Shark River Slough at the end of each month and TP FWMCs for each sampling event.



Figure 7. Daily flows at Shark River Slough structures as a stacked sum of all inflows.



Figure 8. Daily flows into and out of the east L-29 Canal between S333 and S334.



Figure 9. Daily flows at S12 structures to Shark River Slough.



Figure 10. Daily flows at individual inflow structures to the east L-29 Canal between S333 and S334.



Figure 11. Flow to Shark River Slough on the sampling day and the corresponding TP FWMCs for individual sampling events.

Taylor Slough and Coastal Basins

Background

Under the Consent Decree, a single TP long-term limit of 11 ppb, to be met by December 31, 2006, was set for the two points of inflow to Taylor Slough (S332 and S175) and the inflow point to Coastal Basins (S18C) (see Appendix C). The 12-month TP FWMCs have been consistently lower than the long-term limit of 11 ppb.

TP and flow data from both sets of structures presented in prior editions of this report through December 2001 (April 2002 report) showed that, beginning in October 2000, the 12-month moving total flow for S332D, S174, and S18C was consistently greater than flow at S332, S175, and S18C. There was also a shift in TP FWMC data whereby S332D, S174, and S18C concentrations became equal to, and then consistently lower than, the concentrations at S332, S175, and S18C. These changes reflected the switch from S332 to S332D for water delivery to Taylor Slough between July 3 and 5, 2000. Furthermore, the S174 site was plugged in September 2007, preventing any additional flow. Consequently, for WY2002 through WY2007, compliance tracking was represented by S332D, S174, and S18C. Since WY2008, S332D and S18C have represented the compliance tracking structures until Method 2 and Method 3 were developed in WY2017.

To facilitate tracking and comparison of the operation of the improved conveyance and delivery system to Taylor Slough and Coastal Basins, three alternative methods were proposed for the 12-month TP FWMC compliance tracking calculation for Taylor Slough and Coastal Basins. Method 1, computed as S332D + S18C; Method 2, computed as S332D + S18C + G737; and Method 3, computed as (S332D – S332DX1 – S328) + S328 + S18C + G737. Tracking of these three methods spanned June 2017 through March 2020. At the August 11, 2020, TOC meeting, the TOC representatives voted to use Method 3 as the official compliance method moving forward. Beginning with the second quarter of 2020, only Method 3 results are calculated and presented for Taylor Slough and Coastal Basins. Method 3 calculates FWMCs as [(S332D TP and S332D adjusted flow) + (S328 TP and flow) + (G737 TP and flow) + (S18C TP and flow)] using all flow and TP grabs on weekly compliance sampling dates. S332D adjusted flow is S332D – S332DX1 – S328. Inflow TP concentrations to ENP through Taylor Slough and Coastal Basins are compared to the 11-ppb limit at the end of each water year using data from both the old and new (S174, S332D, and S18C) combinations of structures (Figure 12).



Figure 12. The 12-month TP FWMCs in inflows to ENP through Taylor Slough and Coastal Basins at the end of each water year compared to the 11-ppb long term TP limit. Blue bars show S332D and S18C (Method 1) for WY2008 through WY2019. Method 3 for WY2020 through WY2024, represented by dark blue bars, is (S332D – S332DX1 – S328) + S328 + G737 + S18C.

Figure 12 demonstrates the comparison of Inflow TP concentrations for ENP through Taylor Slough and Coastal Basins to the concluding water year 11-ppb limit.

The TP FWMCs for the 12-month period ending on September 30, 2024, was 5.2 ppb, which is lower than the 11.0 ppb long-term limit. Therefore, inflows to ENP through Taylor Slough and Coastal Basins met the TP limit for WY2024.

Reporting Period Update

Figure 13 presents 12-month and individual sampling event TP FWMCs at the TP compliance structures. All TP concentrations measured in grab samples collected on positive flow days reported for surface water monitoring at the sites were used for the compliance calculations.

The daily flows toward ENP through S332D (minus S332DX1 flow), G737, and S18C are presented in **Figure 14**. Daily flows from the S332D pumps and downstream structures are presented in **Figure 15**. Daily flows at individual Taylor Slough and Coastal Basins structures into ENP are resented in **Figure 16**.

For the periods ending July, August, and September 2023, the 12-month TP FWMCs were 5.0, 5.2, and 5.2 ppb, respectively (**Table 4**). The percent of TP FWMCs greater than 10 ppb from each sampling event in any 12month period has been much lower than the fixed guideline of 53.1% stipulated by the Consent Decree (**Table 4**). No sampling event FWMCs have been higher than 10 ppb since June 7, 2022, sampling event (10.2). **Figure 17** shows daily inflows and the corresponding TP FWMCs for each sampling event. The sampling event TP FWMCs generally remained low.



Figure 13. The 12-month TP FWMCs in inflows to ENP through Taylor Slough and Coastal Basins at the end of each month and the sampling TP FWMCs for each sampling event.



Figure 14. Daily flows into ENP as a stacked sum of Taylor Slough (G737 and S332D minus S332DX1) and Coastal Basins (S18C). S328 flow is shown as an overlaid line, and flow at this station downstream of S332D is associated with its own TP data.



Figure 15. Daily flows into the detention area from the S332D pumps and monitored flow out of the detention area at two downstream structures.



Figure 16. Daily flows in cubic feet per second (cfs) at individual Taylor Slough and Coastal Basins structures into ENP.

	Total	Long-	Flow- Weighted	Percent of Sampling Events Greater than 10 ppb			
12-Month Period	Flow (kac- ft)	Term Limit (ppb)	Mean TP Concentration (ppb)	Guideline (%)	Observed (%)		
Nov 2020 - Oct 2021	371.1	11.0	5.5	53.1	2.1		
Dec 2020 - Nov 2021	324.9	11.0	4.9	53.1	0.0		
Jan 2021 - Dec 2021	301.8	11.0	4.8	53.1	0.0		
Feb 2021 - Jan 2022	297.7	11.0	4.8	53.1	0.0		
Mar 2021 - Feb 2022	285.7	11.0	4.8	53.1	0.0		
Apr 2021 - Mar 2022	286.3	11.0	4.8	53.1	0.0		
May 2021 - Apr 2022	273.2	11.0	4.8	53.1	2.3		
Jun 2021 - May 2022	271.0	11.0	4.8	53.1	2.2		
Jul 2021 - Jun 2022	288.6	11.0	5.1	53.1	4.3		
Aug 2021 - Jul 2022	300.2	11.0	5.1	53.1	4.2		
Sep 2021 - Aug 2022	315.2	11.0	5.2	53.1	4.2		
Oct 2021 - Sep 2022	323.0	11.0	5.1	53.1	4.2		
Nov 2021 - Oct 2022	329.3	11.0	5.1	53.1	4.2		
Dec 2021 - Nov 2022	321.3	11.0	5.2	53.1	4.1		
Jan 2022 - Dec 2022	321.5	11.0	5.1	53.1	4.1		
Feb 2022 - Jan 2023	309.1	11.0	5.1	53.1	4.0		
Mar 2022 - Feb 2023	317.4	11.0	5.1	53.1	4.0		
Apr 2022 - Mar 2023	322.0	11.0	5.1	53.1	3.9		
May 2022 - Apr 2023	337.2	11.0	5.1	53.1	1.9		
Jun 2022 - May 2023	350.7	11.0	5.1	53.1	1.9		
Jul 2022 - Jun 2023	357.3	11.0	4.8	53.1	0.0		
Aug 2022 - Jul 2023	362.7	11.0	4.8	53.1	0.0		
Sep 2022 - Aug 2023	368.8	11.0	4.5	53.1	0.0		
Oct 2022 - Sep 2023	357.3	11.0	4.6	53.1	0.0		
Nov 2022 - Oct 2023	347.8	11.0	4.8	53.1	0.0		
Dec 2022 - Nov 2023	358.2	11.0	4.8	53.1	0.0		
Jan 2023 - Dec 2023	363.3	11.0	4.8	53.1	0.0		
Feb 2023 - Jan 2024	380.1	11.0	4.8	53.1	0.0		
Mar 2023 - Feb 2024	386.7	11.0	4.8	53.1	0.0		
Apr 2023 - Mar 2024	398.3	11.0	4.8	53.1	0.0		
May 2023 - Apr 2024	402.0	11.0	4.8	53.1	0.0		
Jun 2023 - May 2024	397.1	11.0	4.9	53.1	0.0		
Jul 2023 - Jun 2024	409.5	11.0	4.9	53.1	0.0		
Aug 2023 - Jul 2024	406.3	11.0	5.0	53.1	0.0		
Sep 2023 - Aug 2024	405.7	11.0	5.2	53.1	0.0		
Oct 2023 - Sep 2024	430.5	11.0	5.2	53.1	0.0		

Table 4. Taylor Slough and the Coastal Basins TP compliance tracking.

Notes:

Key to units: kac-ft – thousand acre-feet and ppb – parts per billion (values are in micrograms per liter [μg/L], which, for the purposes of this report, are equivalent to ppb).

Compliance is evaluated annually based on the 12-month TP FWMC for the federal water year ending on September 30. The compliance periods are shown as highlighted rows with bold, italicized text.



Figure 17. Flow from Taylor Slough and Coastal Basins structures on the days of sampling and the corresponding TP FWMCs for individual sampling events. **Method 3 sampling event flows and FWMCs have been used since May 2019.**

APPENDIX A

MONTHLY TOTAL PHOSPHORUS CONCENTRATION DATA FOR THE ARTHUR R. MARSHALL LOXAHATCHEE NATIONAL WILDLIFE REFUGE

TP concentration data used in this report can be directly retrieved from the South Florida Water Management District's DBHYDRO database by copying and pasting the following link into the address field of a web browser:

http://my.sfwmd.gov/dbhydroplsql/water_quality_data.report_full?v_where_clause=where+ station_id+like+('LOX%25')+and+station_id+not+like+('LOXA%25')+and+test_number+=+25+a nd+date_collected+>=+'01-JUL-2024'+and+date_collected+<+'01-OCT-2024'+and+sample_type_new+=+'SAMP'&v_target_code=file_csv

Stage data for stations 1-7, 1-8C, and 1-9 from the reporting quarter can be retrieved by copying and pasting the following link into the address field of a web browser:

http://my.sfwmd.gov/dbhydroplsql/web_io.report_process?v_period=uspec&v_start_date=2 0240701&v_end_date=20240930&v_report_type=format7&v_target_code=file_csv&v_run_mod e=onLine&v_js_flag=Y&v_dbkey=FE775/FE776/FE777

Month-Year	LOX3	LOX4	LOX5	LOX6	LOX7	LOX8	LOX9	LOX10	LOX11	LOX12	LOX13	LOX14	LOX15	LOX16
Oct-2021	6	8	5	6	8	8	7	6	7	7	6	6	6	8
Nov-2021	6	10	9	6	7	10	8	8	6	6	6	6	6	7
Dec-2021	5	6	6	6	5	7	5	6	5	5	5	5	4	5
Jan-2022	5	7	5	6	6	8	6	6	5	5	5	6	5	6
Feb-2022	¹	6	7	5	5	6	6	6	3	5	4	3	4	7
Mar-2022	8	7	10	6	9	10	8	10	5	6	6	7	5	8
Apr-2022		8	6	8	8	9	7	8	9	7	7	9	6	9
May-2022				15					9	8	9	6	8	11
Jun-2022	12	26	9	14	12	12	10	10	8	7	6	7	7	7
Jul-2022		9	4	10	6	7	6	11		9	8	8	7	9
Aug-2022		10	4	7	6	7	6	9	4	9	5	8	7	9
Sep-2022		8		13	5	5		8	10	7	6	6	8	8
Oct-2022	9	7	7	6	6	6	7	7	6	6	5	6	7	7
Nov-2022	7	9	6	7	7	6	5	8	7	6	6	6	5	10
Dec-2022	4	7	5	7	5	6	6	6	6	6	10	4	6	7
Jan-2023	6	5	6	6	5	6	7	5	6	5	4	6	4	7
Feb-2023	6	6	7	6	5	4	6	6	4	5	4	5	4	7
Mar-2023	8		5	7	7	5	4	9	5	6	7	6	6	9
Apr-2023				8	9	9	17		4	6	8	7	7	9
May-2023	7	9	6	6	6	8	8	12	7	6	5	7	7	7
Jun-2023	7	9	6	6	6	6	7	8	6	5	6	6	6	7
Jul-2023	7	9	4	6	5	4	4	7	7	6	7	5	7	6
Aug-2023	5	7	6	6	4	4	6	6	6	5	6	5	6	6
Sep-2023	5	8	4	4	5	4	5	9	6	6	6	7	5	7
Oct-2023	6	11	6	5	8	5	7	9	8	8	6	6	6	7
Nov-2023	5	11	5		5	8	5	6		8				
Dec-2023	12	13	5	6	5	10	7	8	5	6	6	6	6	6
Jan-2024	4	6	4	6	3	4	5	4	4	6	4	4	4	4
Feb-2024				6					6	6	6	6	5	8
Mar-2024	4	11	5	8	5	7	6	7	6	8	6	8	6	15
Apr-2024		8		7	7	7	6	6	8	5	7	5	8	8
May-2024	G	G	G		G	G	G	G	10	7		10	9	11
Jun-2024														
Jul-2024	7	13	5	11	8	10	14	10	11	8	8	8	8	9
Aug-2024		10	6	9	10	8	8	9	10	7	6	8	8	9
Sep-2024	7	10	6	6	8	7	7	8	7	6	6	7	7	8

Table A-1. Arthur R. Marshall Loxahatchee National Wildlife Refuge monthly TP data(in parts per billion).

Notes:

"---" indicates sample was not collected due to insufficient water depth or dried out/ponding conditions at the site.

"--- 1" TP samples collected at LOX3 in February 2022 were not analyzed because a live aquatic insect was found in the composite bucket.

 7 TP samples collected in February 2024 were G qualified because analyte was detected above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value.

APPENDIX B

WEEKLY GRAB TOTAL PHOSPHORUS CONCENTRATION DATA FOR SHARK RIVER SLOUGH

TP concentration data used in this report can be directly retrieved from the South Florida Water Management District's DBHYDRO database by copying and pasting the following link into the address field of a web browser:

http://my.sfwmd.gov/dbhydroplsql/water_quality_data.report_full?v_where_clause=where+ station_id+in+('S12A','S12B','S12C','S12D','S333','S333N','S355A','S355B','S356-334')+and+test_number+=+25+and+collect_method+=+'G'+and+date_collected+%3e=+'01-JUL-2024'+and+date_collected+%3c+'01-OCT-2024'+and+sample_type_new+=+'SAMP'&v_target_code=file_csv

The daily mean flow data for stations S12A, S12B, S12C, S12D, S355A, S355B, S333, S333N, S356, and S335 for the reporting quarter (third quarter of 2024) can be retrieved by copying and pasting the following link into the address field of a web browser:

http://my.sfwmd.gov/dbhydroplsql/web_io.report_process?v_period=uspec&v_start_date=2 0240701&v_end_date=20240930&v_report_type=format7&v_target_code=file_csv&v_run_mod e=onLine&v_js_flag=Y&v_dbkey=FE771/FE772/FE773/FE774/MQ895/MQ896/AM173/AS24 8/AS252/AS250/15042/FB752

Date	S12A	S12B	S12C	S12D	S333	S333N	S355A	S355B	S356	Remarks
10/02/2023	6	4	5	8	7	7			6	N/A
10/09/2023	5	4	5	6	8	7	6	7	4	Compliance date
10/16/2023	6	4	6	8	8	7			5	N/A
10/23/2023	6	4	5	7	6	6			8	Compliance date
10/30/2023	7	4	4	7	7	7			9	N/A
11/06/2023	9	6	5	8	8	7	5	6	10	Compliance date
11/13/2023	12	10	6	8	8	8			4	N/A
11/20/2023	5	4	9	16	17	15			8	Compliance date
11/28/2023	5	4	6	7	8	8			5	N/A
12/05/2023	G	G	G	G	G	G	G	G	G	Compliance date
12/12/2023	3	5	5	6	7	7			4	N/A
12/19/2023	4	4	5	7	7	7			11	Compliance date
12/27/2023	4	4	6	7	5	6			5	N/A
01/03/2024	4	9	5	6	6	6	4	4	4	Compliance date
01/09/2024	4	4	3	6	6	5			5	N/A
01/16/2024	4	5	5	6	6	6			5	Compliance date
01/23/2024	4	4	6	6	5	6			4	N/A
01/30/2024	6	10	7	8	8	11			5	Compliance date
02/06/2024	5	4	7	7	7	6			6	N/A
02/13/2024	5	6	5	6	7	7	5	6	5	Compliance date
02/20/2024	7	6	7	9	9	8			5	N/A
02/27/2024	4	5	6	7	7	7			5	Compliance date
03/05/2024	6	8	6	8	8	9			5	N/A
03/12/2024	6	7	8	9	9	8	5	8	5	Compliance date
03/19/2024	6	7	8	11	10	10			6	N/A
03/26/2024	6	6	6	8	8	9			6	Compliance date
04/02/2024	6	8	6	9	9	9			6	N/A
04/09/2024	10	7	4	10	9	9	6	8	5	Compliance date
04/16/2024	12	9	6	9	8	10			6	N/A
04/23/2024	13	9	8	10	10	10			8	Compliance date
04/30/2024	15	9	7	10	11	10			6	N/A
05/07/2024	17	11	7	12	12	11	8	15	8	Compliance date
05/14/2024	17	16	17	14	14	14			6	N/A
05/21/2024	16	16	19	15	16	16	10	16	6	Compliance date
05/28/2024	16	15	17	13	19	21			10	N/A
06/04/2024	20	14	14	13	19	22	15	19	13	Compliance date
06/11/2024	27	19	16	15	15	24			6	N/A
06/18/2024	24	13	12	21	23	21	6	10	6	Compliance date
06/25/2024	14	9	8	10	14	12			6	N/A
07/02/2024	13	10	7	13	11	10	7	11	6	Compliance date
07/09/2024	13	9	7	10	11	10			6	N/A
07/16/2024	10	7	6	14	10	10	7	9	6	Compliance date
07/23/2024	6	5	7	9	8	9			6	N/A
07/30/2024	6	6	6	8	10	10	8	8	6	Compliance date
08/06/2024	6	5	7	9	9	8			5	N/A
08/13/2024	6	6	7	9	9	8	6	9	6	Compliance date
08/20/2024	5	5	6	8	8	8			5	N/A
08/27/2024	7	6	6	9	9	9	7	8	7	Compliance date
09/03/2024	5	5	6	8	8	8			6	N/A
09/10/2024	5	5	7	8	8	7	7	10	5	Compliance date
09/17/2024	4	5	8	Y	8	6			5	N/A
09/24/2024	15	5	6	8	8	7	6	9	5	Compliance date

Notes:

• "---" indicates a water sample was not collected because the gate was closed and there was no flow at the site.

• "Compliance date" indicates biweekly sampling date for Consent Decree calculation.

• "N/A" indicates sampling data are presented for informational purposes only.

• "G" indicates the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value.

APPENDIX C

WEEKLY GRAB TOTAL PHOSPHORUS CONCENTRATION DATA FOR TAYLOR SLOUGH AND COASTAL BASINS

TP concentration data used in this report can be directly retrieved from the South Florida Water Management District's DBHYDRO database by copying and pasting the following link into the address field of a web browser:

http://my.sfwmd.gov/dbhydroplsql/water_quality_data.report_full?v_where_clause=where+ station_id+in+('S332DX','S18C','S328','G737')+and+test_number+=+25+and+collect_method+=+' G'+and+date_collected+%3e=+'01-JUL-2024'+and+date_collected+%3c+'01-OCT-2024'+and+sample_type_new+=+'SAMP'&v_target_code=file_csv

The daily mean flow data for stations at Taylor Slough and Coastal Basins (S332D, S18C, S328, G737, and S332DX1) during the reporting quarter can be retrieved by copying and pasting the following link into the address field of a web browser:

http://my.sfwmd.gov/dbhydroplsql/web_io.report_process?v_period=uspec&v_start_date=2 0241001&v_end_date=20241231&v_report_type=format7&v_target_code=file_csv&v_run_mod e=onLine&v_js_flag=Y&v_dbkey=AS259/15760/TA413/AS254/AS257

Date	S332DX	S18C	G737	S328		Date	S332DX	S18C	G737	S328
10/3/2023	5	4	3	3		04/02/2024	6	6		4
10/10/2023	9	4	2			04/09/2024	5	5		
10/17/2023	6	4	3	2		04/16/2024	6	6		4
10/24/2023	6	4	3			04/23/2024	5	5		
10/31/2023	6	4	3	2		04/30/2024	6	5		14
11/7/2023	5	6	3			05/07/2024	5	5		
11/14/2023	3	4	3	3		05/14/2024	5	6		J
11/21/2023	4	12	4			05/21/2024	Y	4		
11/28/2023	5	7	3	2		05/28/2024	8			J
12/5/2023	5	6	3			06/04/2024	11	7		
12/12/2023	5	6	3	4		06/11/2024	4	6		22
12/19/2023	6	6	3			06/18/2024	5	6	6	
12/28/2023	5	G	G	3		06/25/2024	5	4		7
1/4/2024	6	5	3			07/02/2024	5	6	4	
1/9/2024	5	5	3	6		07/09/2024	G	8	4	G
1/16/2024	5	6	3			07/16/2024	5	6	5	
1/23/2024	4	5	7	2		07/23/2024	5	6	3	6
1/30/2024	5	5	4			07/30/2024	5	G	G	
2/6/2024	4	4	3	7		08/06/2024	5	6	4	6
2/13/2024	6	5	2			08/13/2024	5	6	3	
2/20/2024	3	4	2	8		08/20/2024	4	5	2	Y
2/27/2024	6	4	3			08/27/2024	6	9	3	
3/5/2024	6	6	2	9		09/03/2024	5	5	2	4
3/12/2024	6	6	2			09/10/2024	4	3	2	
3/19/2024	6	5		8]	09/17/2024	7	6	3	5
3/26/2024	5	G	G			09/24/2024	5	4	2	

Table C-1. Taylor Slough and Coastal Basins weekly grab TP data (in parts per billion).

Notes:

 "--" indicates a water sample was not collected because the gate was closed and there was no flow, or the water depth was too shallow.

• Blank cell for the site indicates that it was not the sampling week. "NOB" (No Bottle Sample) indicates the water sample was not collected because of the non-representative surrounding area condition.

• "G" indicates the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value.

• "Y" indicates the sample was improperly preserved.

• "J" indicates the analysis yielded an estimated value.

APPENDIX D

CALCULATION METHODS

Long Term Marsh Concentration Levels for Loxahatchee National Wildlife Refuge

Long Term Marsh Concentration Levels:

$C = 10.7172 - 0.541156S + 1.372\sqrt{7.5819 - 0.9310S + 0.02902216S^2}$

Terms:

C = the natural log of the geometric mean total phosphorus concentration across 14 marsh stations.

S = average stage measured at gauges CA1-9, CA1-7, and CA1-8C on sampling date (feet).

This equation is applicable over a stage range of 15.42 to 17.14 feet. If the stage on any sampling date exceeds 17.14 feet, a stage of 17.14 feet should be used in calculating the long-term concentration levels. The equation shall not apply to dates when the average stage is less than 15.42 feet.

(1991 Settlement Agreement entered as a Consent Decree in 1992 and modified in 1995, Exhibit B, Appendix B, Attachment II, page B-7)

Discharge Limits and OFW Standards for Shark River Slough

Interim Discharge Limit:

 $C = 11.16 - 0.00465 Q + 1.397 \sqrt{6.377 - 0.00591 Q + 0.00000436 Q^2}$

Long-Term Discharge Limit & OFW Standard:

 $C = 11.38 - 0.00538 Q + 1.397 \sqrt{2.493 - 0.00231 Q + 0.00000170 Q^2}$

Frequency Exceedance:

 $F = 48.411 - 0.02896 Q + 1.397 \sqrt{330.1 - 0.3071 Q + 0.0002254 Q^2}$

Terms:

Water Year = October through September

Q = total inflow to Shark River Slough for water year, S-12s + S-333 + any additional inflow from the WCAs established in the future, thousand acre-feet per year (kac-ft/yr).

C = limit on maximum flow-weighted-mean inflow concentration for any Water Year, composite of all inflows to Shark Slough (ppb).

F = exceedance for maximum frequency (percent) of inflow concentrations exceeding 10 ppb, computed from the time series of concentrations composited across all inflow structures on each sampling date with positive flow in a given water year.

The range of flow (Q) used in deriving the limits is 117 to 1,061 kac-ft/yr. If the total flow for any water year exceeds 1,061 kac-ft/yr, a flow of 1,061 kac-ft/yr should be used in calculating the discharge limits.

(1991 Settlement Agreement entered as a Consent Decree in 1992 and modified in 1995, Exhibit B, Appendix A, Attachment I, page A-5)

Discharge Limits and OFW Standards for Taylor Slough and Coastal Basins

Long-Term Flow-Weighted Discharge Limit & OFW Standard = 11.0 ppb

Frequency Exceedance:

Frequency of values > 10 ppb must be less than 53.1%.

Terms:

Limits are defined on a water year basis, October through September.

Basin flow is the total flow through structures S-332, S-175, and S-18C, plus any new release points from this basin established in the future, thousand acre-feet per year (kac-ft/yr).

Limits apply to the flow-weighted-mean concentration for any water year, composite of all inflows to Taylor Slough (S-332) and Coastal Basin (S-18C).

Frequency exceedance is the exceedance for maximum frequency (percent) of inflow concentrations exceeding 10 ppb, computed from the time series of concentrations composited across all inflow structures on each sampling date with positive flow in a given water year.

(1991 Settlement Agreement entered as a Consent Decree in 1992 and modified in 1995, Exhibit B, Appendix A, Attachment II, page A-6)

APPENDIX E

DOCUMENT REVISIONS

Table E-1. Revisions to this report since initial publication.

Date	Page	Original	Revision		
May 29,2025	Cover	February 21, 2025 (Published date)	June 16, 2025 (New published date)		
May 29,2025	Cover	Shark River Slough compliance results are published annually in this report when the final approved flow data for a federal water year (WY) are available. The WY2023 (October 1, 2022 – September 30, 2023) results will be published at that time.	This report has been revised from earlier versions to include Shark River Slough compliance results using the final approved flow data for federal Water Year 2024 (October 1, 2023 – September 30, 2024).		
May 29,2025	i, ii	Contents	The Contents section was revised to reflect the revisions to the Shark River Slough section, the change of data from 'provisional' to 'final' in Table 3, and the addition of Figures 5 through 11.		
May 29,2025	1	Shark River Slough: Tracking results based on provisional data for the third quarter of 2024 are presented. When the final data are available, the final federal Water Year (WY) 2024 (October 1, 2023 – September 30, 2024) 12-month TP flow weighted mean concentrations (FWMCs) will be published separately as a revision to the third quarter 2024.	Shark River Slough : The TP flow-weighted mean concentration (FWMC) was above the long-term limit (LTL) for the 12-month period ending on September 30, 2024. Therefore, SRS TP FWMC did not meet the LTL during the federal Water Year (WY) 2024 (October 1, 2023 – September 30, 2024).		
May 29,2025	1	Table 1. Third quarter 2024 TP compliance results for the Refuge, TP calculation provisional tracking results for Shark River Slough, and TP calculation tracking results for Taylor Slough and Coastal Basins.	Table 1. Third quarter 2024 TP compliance results for the Refuge, TP calculation final tracking results for Shark River Slough and Taylor Slough and Coastal Basins		
May 29,2025	7-17	Updated the verbiage for Everglades National Park Shark River Slough	The entire section was updated to present the third quarter of 2024, WY2024 compliance values calculated using the approved final flow data. Table 3 was modified to reflect the final flow data for S12s, and Figures 5 through 11 were added.		
May 29,2025	18-24	Updated the verbiage for Everglades National Park Taylor Slough and Coastal Basins	Figure and table numbers were adjusted to reflect the addition of the figures and tables in the Shark River Slough section.		
May 29,2025	A-1, B-1, and C-1		DBKEYS for flow data retrieval were changed from provisional data to final data, and the paragraphs were also updated		
May 29,2025	B-2		The data in Table B-1 was revised accordingly.		
May 29,2025	C-2		On 9/24/2024, the cell for S328 in Table C-1 was modified from "NOB" to "—".		