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SRS Water Quality Conditions – WY2024 Results

12-Month Period	Total Flow (kac-ft)	Long-Term Limit (ppb) Effective 12/31/2006	Flow-Weighted Mean TP Concentration (ppb)	Percent of Sampling Events Greater than 10 ppb			
				Guideline (%)	Observed (%)		
3rd Quarter 2024 Compliance Tracking							
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		

WY2024 RESULTS

SRS FWMC- 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.

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SRS Water Quality Conditions — Outline

Evaluation of the WY2024 Exceedance

Evaluation under the	Data errors?	
Consent Decree	Extraordinary natural phenomena?	
What occurred throughout the year?	System operations	

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SOUTH FLORIDA WATER MANAGEMENT DISTRICT

SRS Water Quality Conditions – Data Errors?

Evaluation of Data Errors

Potential Data Issues	Flow	Water Quality	Effects on Compliance Results
Missing data		☑ 0 samples	
Suspicious (Qualified) data	V	⊠ 1 event	Sensitivity analyses were conducted on the annual FWM. Results indicate no effect on compliance.

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SRS Water Quality Conditions – Data Errors?

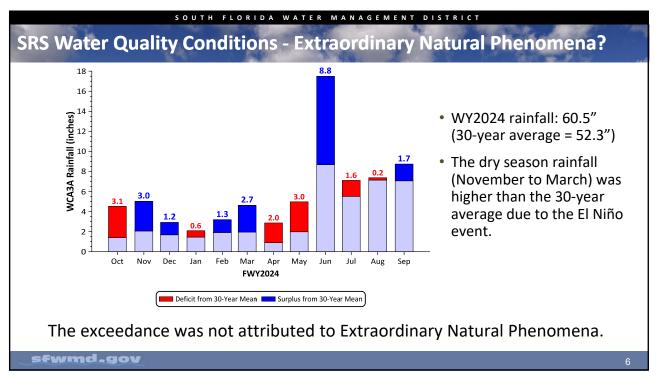
Influence of Qualified Water Quality Data

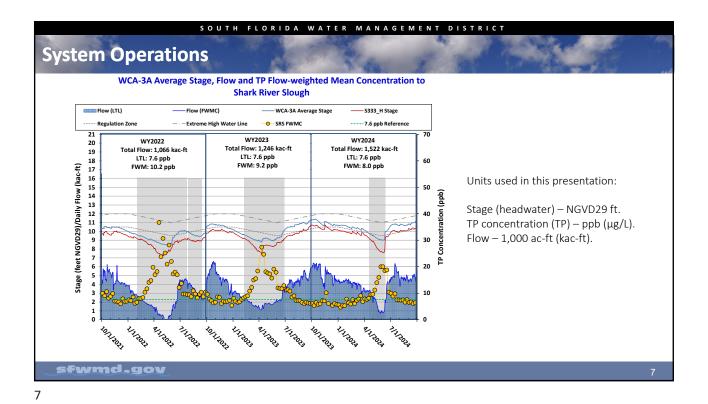
Case	Location	Annual SRS FWM (ppb)
1 event ¹	S12ABCD, S333/S333N, and S356	8.0
Sensitivity tests using substitute	Use samples in the previous week	8.2 or
samples	Use samples in the following week	7.9

¹ The compliance event samples were qualified at S12ABCD, S333/S333N, and S356 on 12/5/2023 because analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank.

The exceedance was not attributed to data errors.

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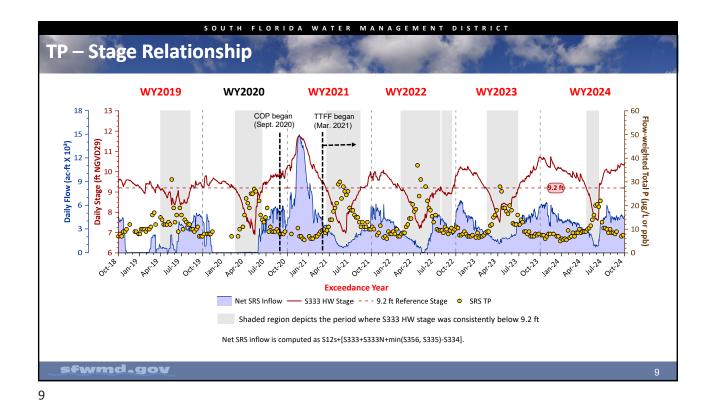
SRS Water Quality Conditions

The persistence of a localized phenomenon

TP – stage relationship

Flows during low stages

Trends of the annual flow, LTL, and FWM TP



SOUTH FLORIDA WATER MANAGEMENT DISTRICT Flow during Low Stages The highest net SRS inflows at or below 9.2 ft in WY2007–2024, ranked in order, are: 2022, 2023, 2021, 2019, 2016, 2014, and 2024. In 9.0 2016, flow occurred at higher stages. S333 HW Stage (ft NGVD29) Net SRS inflow 8.8 FWM FWM - LTL **FWY** when \$333 ≤ 9.2 ft 8.6 (ac-ft X 10³)* (μg/L or ppb) 2014 1.1 124 8.4 2015 -4.2 11.9 7.7 52 -0.4 2016 7.6 7.2 159 8.2 Net SRS inflow when 2017 8.0 2018 7.6 7.3 -0.3 S333HW ≤ 9.2 ft 10.0 9.7 0.3 241 2019 7.8 2020 9.5 9.3 -0.2 41 2021 0.6 256 8.2 7.6 7.6 2022 7.6 10.2 2.6 517 0 100 300 400 2023 275 7.6 9.2 1.6 Total Flow at Stage (ac-ft X 10³) 2024 7.6 8.0 0.4 102 linary natural pher * Net SRS inflow is computed as S12s+[S333+S333N+min(S356, S335)-S334]. Exceedance year sfwmd.gov

