

Settlement Agreement
January - March 2004 Report
Prepared for the
Technical Oversight Committee
August 26, 2004



Topics

- Web Site Navigation
- Quarterly Report
 - Jan ~ Mar 2004
 - April 2004
 - Refuge Provisional Data

Web Site Navigation



Managing & Protecting Our Region's Water Resources

- Home
- About SFWMD
- News, Events & Meetings
- What We Do
- Procurement & Contracts
- Career Opportunities
- Info & Education
- Data & Documents
- Weather & Water Conditions
- Who to Contact
- Site Info
- Kissimmee
- Okeechobee
- Everglades
- Coastal Areas

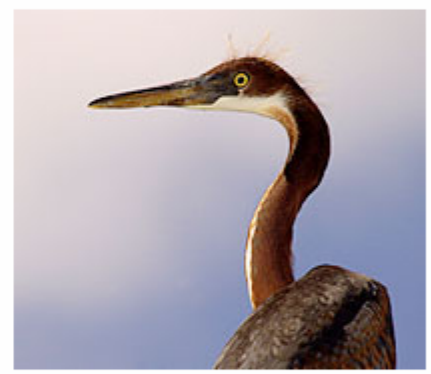
Welcome!

The South Florida Water Management District (SFWMD) is a regional agency of the state of Florida, and is charged with managing and protecting water resources of the region by balancing and improving water quality, flood control, natural systems and water supply.

SFWMD's boundaries extend from central Florida to Lake Okeechobee, and from coast to coast, from Fort Myers to Fort Pierce, south through the sprawling Everglades to the Florida Keys and Florida Bay.

Top News & Events

- [Humberto P. Alonso, Jr. Named Director of Local Service Centers](#) -Service centers are the critical links between District headquarters and the governments/communities within its 16-county jurisdiction.
- [Jose K. Fuentes Named Director of Miami-Dade Service Center](#) - to work closely with elected officials regarding District policies, legislative issues, legislative funding and special projects.
- [The 2005 South Florida Environmental Report](#) - Peer review and public workshops, 9/21 - 9/23.
- [SFWMD Assists in Hurricane Recovery](#) - Mobile Command



August 20, 2004

Emergency Status

Current Situation: The District is in the Response and Recovery Mode for Hurricane Charley [more >](#)

SFWMD Newsroom

What's New >>



- Home
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Everglades

"The Everglades ecological system not only contributes to South Florida's water supply, flood control, and recreation, but serves as the habitat for diverse species of wildlife and plant life. The system is unique in the world and one of Florida's great treasures. The Everglades ecological system is endangered as a result of adverse changes in water quality, and in the quantity, distribution, and timing of flows, and, therefore, must be restored and protected."

"The Everglades ecosystem must be restored both in terms of water quality and water quantity and must be preserved and protected in a manner that is long term and comprehensive."

~ *The Everglades Forever Act (Florida Statute No. 373.4922)*

Federal legislation, beginning in 2000, created the Comprehensive Everglades Restoration Plan (CERP). Popularly known as "The Journey to Restore America's Everglades," this partnership of the U.S. Army Corps of Engineers, South Florida Water Management District and many other federal, state, local and tribal partners is working in concert with the state legislation.

In the time since these and other state and federal legislation were enacted, a great deal of progress has been made. Many



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SFWMD Newsroom

What's New...

A number of [WebBoards](#), where scientific and technical peer reviews and discussions on topics associated with major initiatives occur "on line" is also available.

Other Everglades Web Sites

[The Technical Oversight Committee web site](#) - The Technical Oversight Committee (TOC) originated from the Settlement Agreement of July 11, 1991 as a mechanism for technical review and conflict resolution to support the Everglades Program. See the current [Settlement Agreement Report](#).

[South Florida Ecosystem Restoration Task Force](#)

[South Florida Restoration Science Forum](#)

[Southern Everglades Restoration Alliance](#)

Publications

[A Closer Look at Everglades Research \[PDF\]](#)

[Everglades BMP Program Annual Reports](#)

[2003 Wading Bird Report \[PDF\]](#)

[2002 Wading Bird Report \[PDF\]](#)

More Technical Reports

You can also find these technical and scientific reports and plans at the following links:

[SFWMD Technical Publications Web Site](#)

[Environmental Media Database](#) (includes video and images as well as reports and plans to view or download)

TOC Technical Oversight Committee



Announcements

June 3, 2004 

All (four) presentations from the May 25 TOC meeting have been added to the [Meeting Archive](#).

May 27, 2004

If you have any problems accessing documents on this website, please contact **Chris King** (561-682-2723) or **Trudy Morris** (561-682-6569) for assistance.

May 25, 2004

We have upgraded our most recent PDF documents to the latest version. In order to view them properly, you will need **Adobe Reader 6.0** (or newer). [Click the image above, or click here, to download the free plugin.](#)



[Past Announcements »](#)

Key features on this site

[Learn about the site's key features »](#)

[Learn more about the Technical Oversight Committee »](#)

Next Meeting

Date/Time:

August 26, 2004
10 am to 3 pm

Location:

SFWMD Headquarters
Building B-1
Auditorium

3301 Gun Club Rd.
West Palm Beach, FL
33416-4680

561-686-8800

Read-Ahead Documents:

[Final Agenda 8/26/04](#)

[Current Settlement Agreement Report](#)

[Current QA Report for Water Quality Monitoring](#)

THE Settlement Agreement Report

prepared for the Technical Oversight Committee

*Documents are in pdf format. To properly view them, you need Adobe Reader 6.0 (or newer) installed on your computer.



[Latest Monthly Update](#)

[Latest Quarterly Report](#)

[Previous Reports](#)

Companion Report:
Quality Assessment Report for Water Quality Monitoring

- [Current QA Report](#)
- [Previous QA Reports](#)

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8/23/2004

SETTLEMENT AGREEMENT REPORT

Settlement Agreement April 2004 Updates



8.5 x 11 in | 1 of 9 | Internet

THE Settlement Agreement Report

prepared for the Technical Oversight Committee

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Companion Report:
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7/26/2004

SETTLEMENT AGREEMENT REPORT

Settlement Agreement January - March 2004 Report



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1 of 16

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http://www.sfwmd.gov/org/ema/toc/archives/docs/qawqm/qa_current.pdf

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Quality Assessment Report for Water Quality Monitoring January - March 2004



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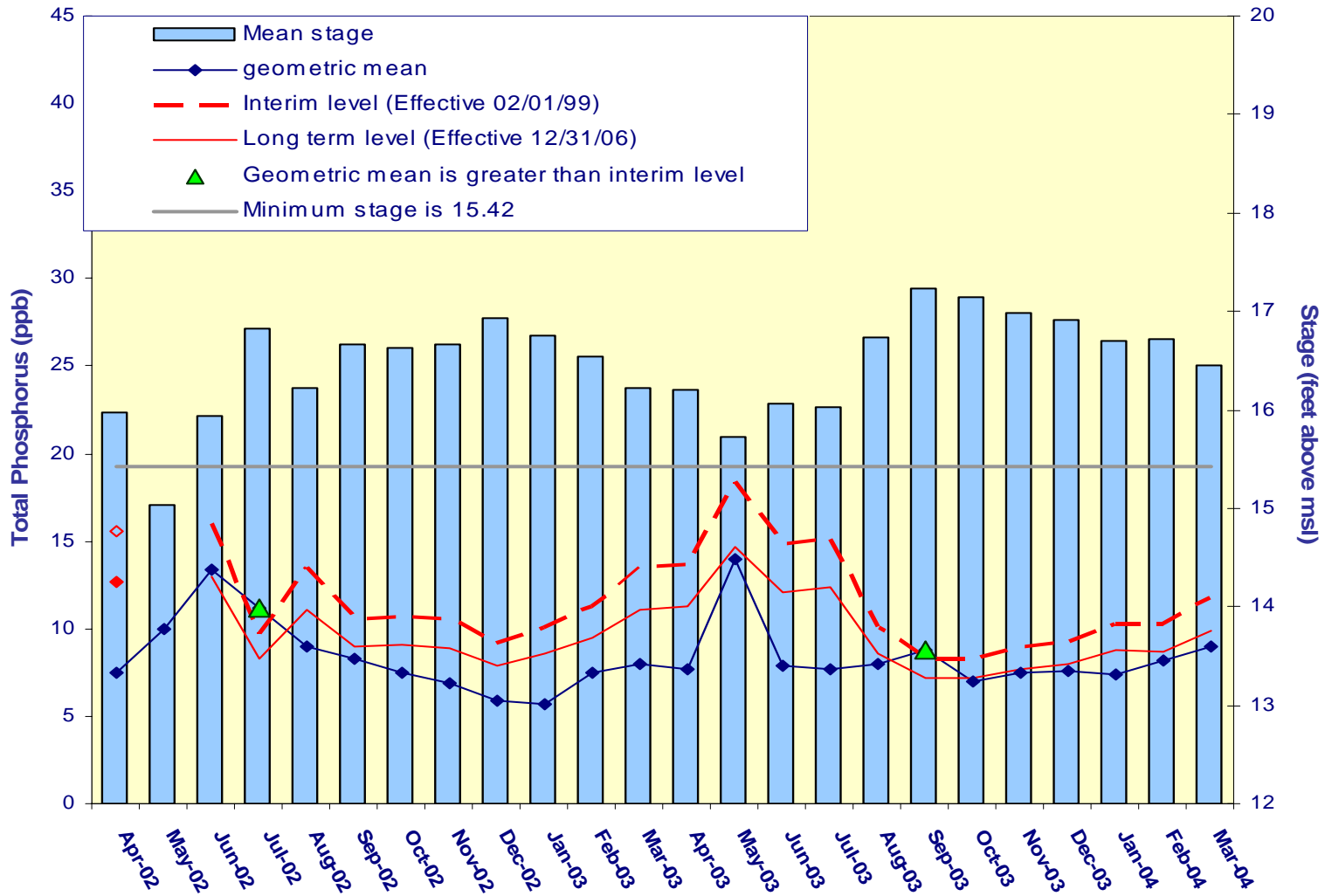
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Internet

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



**Loxahatchee
National Wildlife
Refuge**

**Total Phosphorus
Compliance
Tracking**

Month - Year	Geometric Mean Concentration	Interim Level (ppb)	Long Term Level (ppb)	Average Stage	Number of TP Samples	Number of Stage Measurements
	(ppb)	Effective 2/1/99	Effective 12/31/06	(ft,NGVD)		
Apr-2002	7.5	15.6	12.7	15.98	11	3
May-2002	10.0	N/A	N/A	15.04	3	3
Jun-2002	13.4	16.0	12.9	15.94	10	3
Jul-2002	11.2	9.7	8.3	16.82	14	3
Aug-2002	9.0	13.5	11.1	16.22	12	3
Sep-2002	8.3	10.6	8.9	16.66	11	3
Oct-2002	7.5	10.7	9.0	16.64	12	3
Nov-2002	6.9	10.5	8.9	16.66	12	3
Dec-2002	5.9	9.2	7.9	16.93	14	3
Jan-2003	5.7	10.0	8.5	16.76	13	3
Feb-2003	7.5	11.3	9.5	16.54	11	3
Mar-2003	8.0	13.4	11.1	16.23	9	3
Apr-2003	7.6	13.7	11.2	16.20	12	3
May-2003	14.0	18.3	14.6	15.72	7	3
Jun-2003	7.9	14.8	12.1	16.06	11	3
Jul-2003	7.7	15.2	12.3	16.02	9	3
Aug-2003	8.0	10.1	8.6	16.74	14	3
Sep-2003	8.8	8.3	7.2	17.23	13	3
Oct-2003	7.0	8.3	7.2	17.15	14	3
Nov-2003	7.5	8.9	7.7	16.98	11	3
Dec-2003	7.6	9.3	8.0	16.91	14	3
Jan-2004	7.4	10.3	8.7	16.71	14	3
Feb-2004	8.2	10.3	8.7	16.71	14	3
Mar-2004	9.0	11.8	9.8	16.46	14	3

Refuge TP Compliance Tracking for January – April 2004

Month - Year	Geometric Mean Concentration	Interim Level (ppb)	Long Term Level (ppb)	Average Stage	Number of TP Samples	Number of Stage Measurements
	(ppb)	Effective 2/1/99	Effective 12/31/06	(ft,NGVD)		
Jan-2004	7.4	10.3	8.7	16.71	14	3
Feb-2004	8.2	10.3	8.7	16.71	14	3
Mar-2004	9.0	11.8	9.8	16.46	14	3
Apr-2004	9.6	16.3	13.1	15.91	9	3

Preliminary Data for Refuge TP Compliance Tracking for May – July 2004

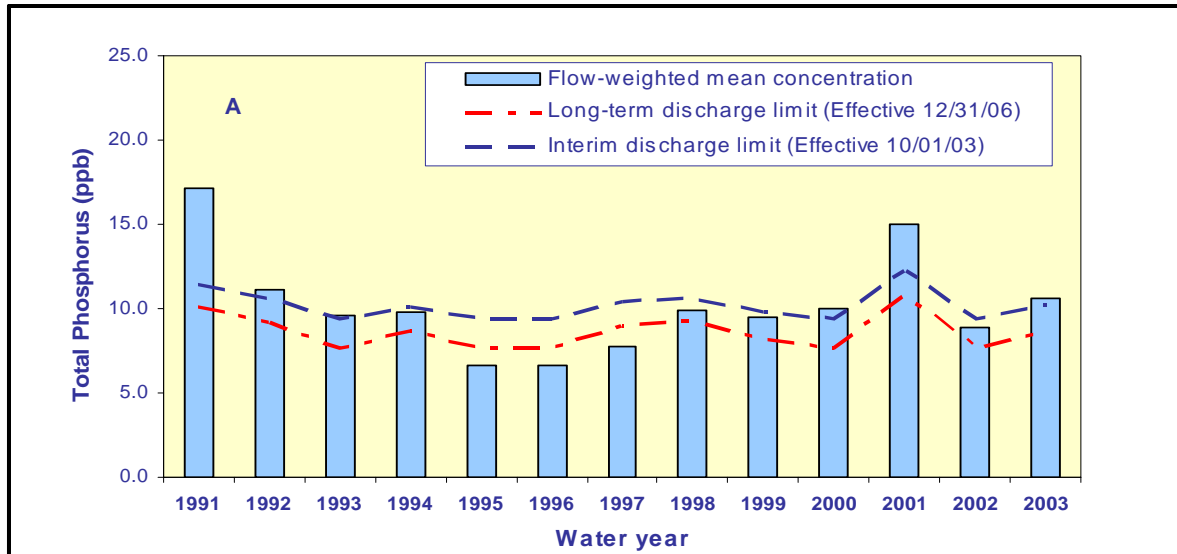
Month - Year	Geometric Mean Concentration	Interim Level (ppb)	Long Term Level (ppb)	Average Stage	Number of TP Samples	Number of Stage Measurements
	(ppb)	Effective 2/1/99	Effective 12/31/06	(ft,NGVD)		
May-2004	12.4	N/A	N/A	15.37	9	3
Jun-2004	40.0	N/A	N/A	15.22	2	3
Jul-2004	21.0	N/A	N/A	15.00	1	3

June 2004 Sampling : LOX12 and LOX15.

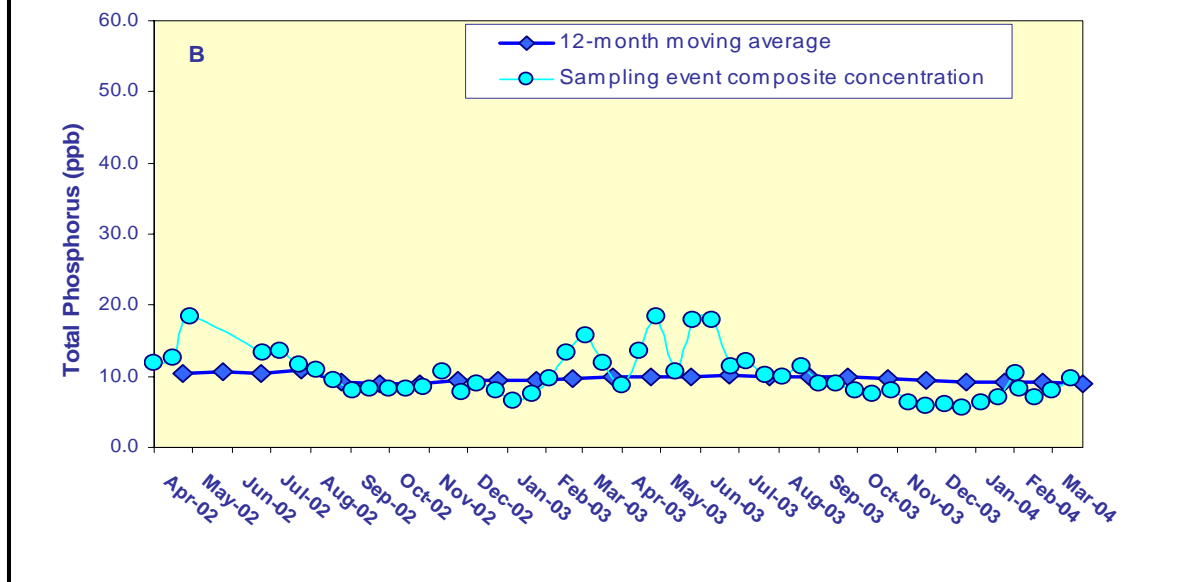
July 2004 Sampling : LOX12.

Flow-weighted Mean Concentrations Inflows to Everglades National Park through Shark River Slough

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



12-month moving average at the end of each month and the composite TP concentration for each sampling event.



Shark River Slough TP Concentration Compliance Tracking

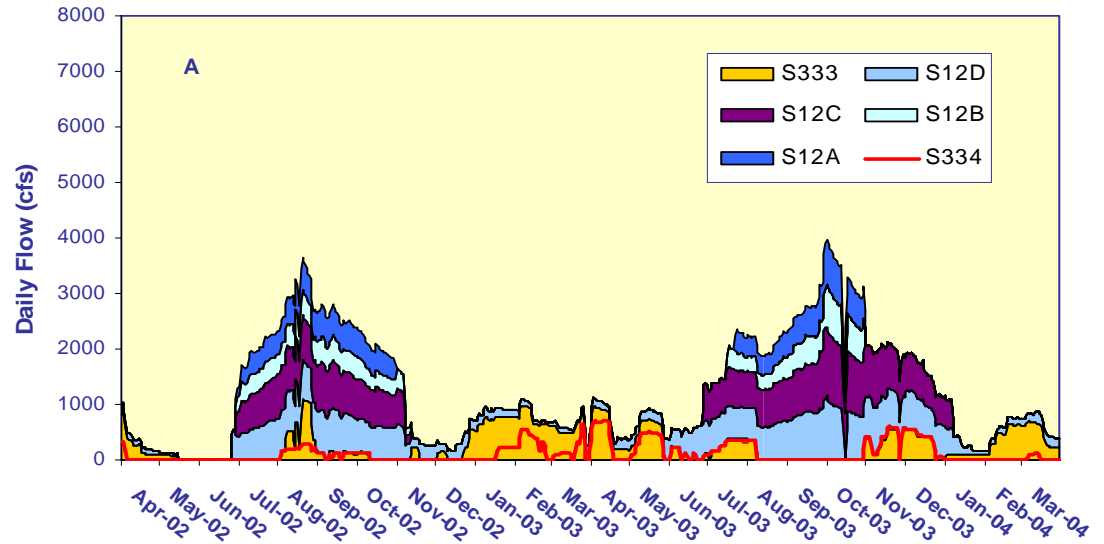
12-Month Period Ending On	Total Period Flow	Flow Weighted Mean Total Phosphorus	Interim Limit (ppb)	Long Term Limit (ppb)	Percent of Sampling Events Greater than 10 ppb	
			Effective	Effective	(%)	
	(Kac-ft)	(ppb)	10/1/2003	12/31/2006	Guideline	Observed
30-Apr-02	829.9	10.5	10.3	8.8	46.3	40.9
31-May-02	833.5	10.5	10.2	8.7	46.3	43.5
30-Jun-02	839.6	10.5	10.2	8.7	46.1	40.9
31-Jul-02	958.5	10.9	9.7	8.1	43.1	45.8
31-Aug-02	1003.2	9.1	9.6	7.9	42.3	39.1
30-Sep-02	1048.1	8.8	9.4	7.7	41.4	30.4
31-Oct-02	999.9	8.9	9.6	7.9	42.6	30.4
30-Nov-02	884.5	9.4	10.0	8.5	45.4	34.8
31-Dec-02	802.2	9.6	10.4	8.9	47.4	33.3
31-Jan-03	831.1	9.5	10.3	8.8	46.7	34.8
28-Feb-03	843.6	9.7	10.2	8.7	46.9	39.1
31-Mar-03	812.1	9.9	10.3	8.9	47.6	47.8
30-Apr-03	832.1	9.9	10.2	8.8	45.5	43.5
31-May-03	871.3	10.0	10.1	8.6	44.5	45.8
30-Jun-03	901.1	10.2	10.0	8.4	43.8	50.0
31-Jul-03	891.3	9.8	10.0	8.5	44.0	50.0
31-Aug-03	839.3	9.9	10.2	8.7	45.3	50.0
30-Sep-03	850.1	10.0	10.2	8.7	45.1	50.0
31-Oct-03	921.8	9.7	9.9	8.3	43.3	50.0
30-Nov-03	1001.5	9.5	9.6	7.9	41.4	46.2
31-Dec-03	1076.8	9.1	9.4	7.6	40.1	46.2
31-Jan-04	1049.0	9.2	9.4	7.7	40.4	46.2
29-Feb-04	1033.9	9.1	9.5	7.8	40.7	44.4
31-Mar-04	1036.7	8.9	9.4	7.7	40.7	37.0

Shark River Slough TP Concentration Compliance Tracking for January – April 2004

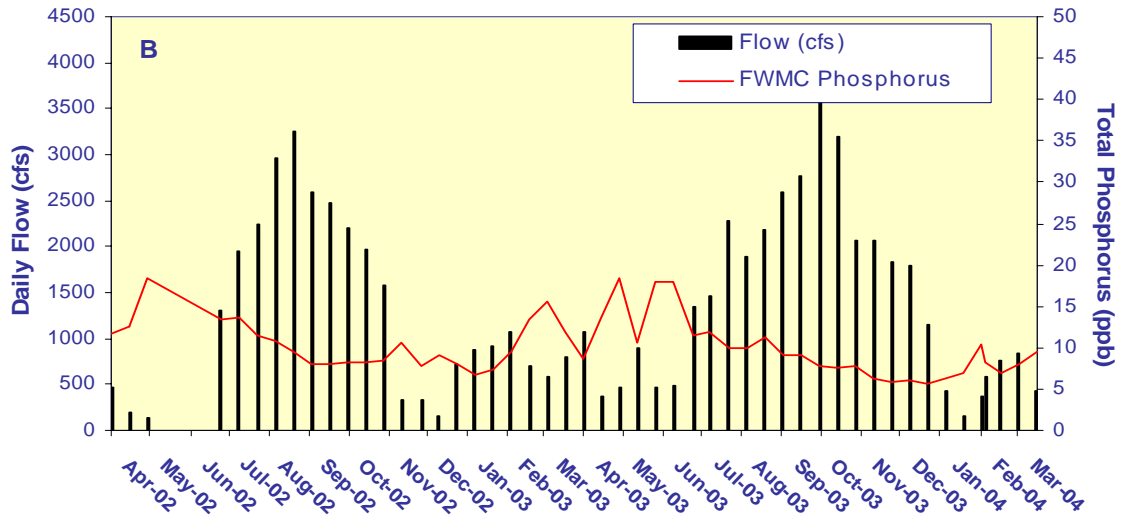
12-Month Period Ending On	Total Period Flow	Flow Weighted Mean Total Phosphorus	Interim Limit (ppb)	Long Term Limit (ppb)	Percent of Sampling Events Greater than 10 ppb	
			Effective	Effective	(%)	
	(Kac-ft)	(ppb)	10/1/2003	12/31/2006	Guideline	Observed
31-Jan-04	1049.0	9.2	9.4	7.7	40.4	46.2
29-Feb-04	1033.9	9.1	9.5	7.8	40.7	44.4
31-Mar-04	1036.7	8.9	9.4	7.7	40.7	37.0
30-Apr-04	1012.9	9.0	9.5	7.9	41.2	40.7

Shark River Slough – Daily Flows and Sampling Event FWMC

Daily flows into Shark River Slough by structure

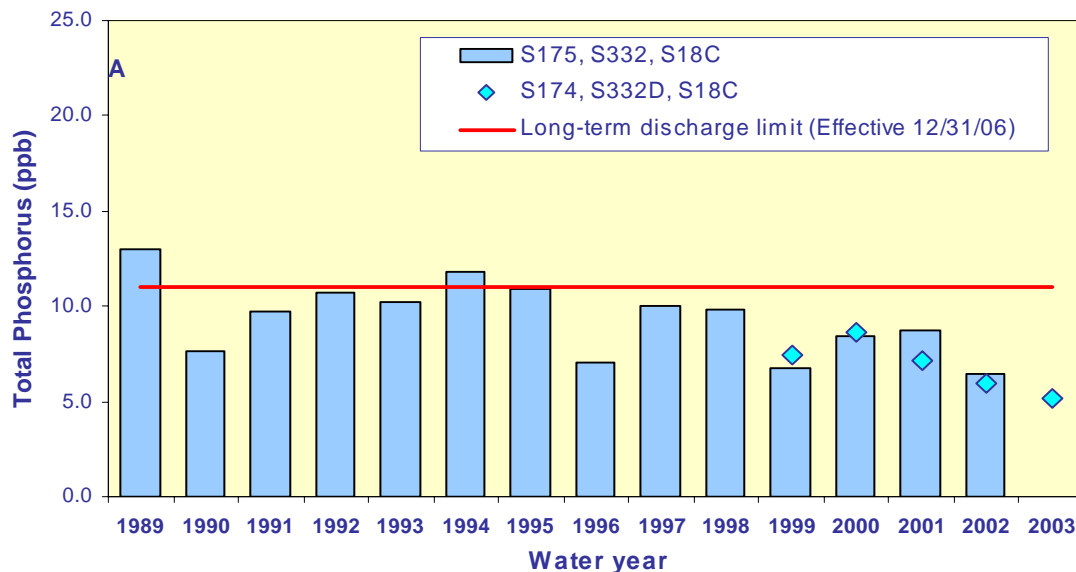


Daily flow at Shark River Slough structures and the corresponding TP FWMCs for individual sampling events.

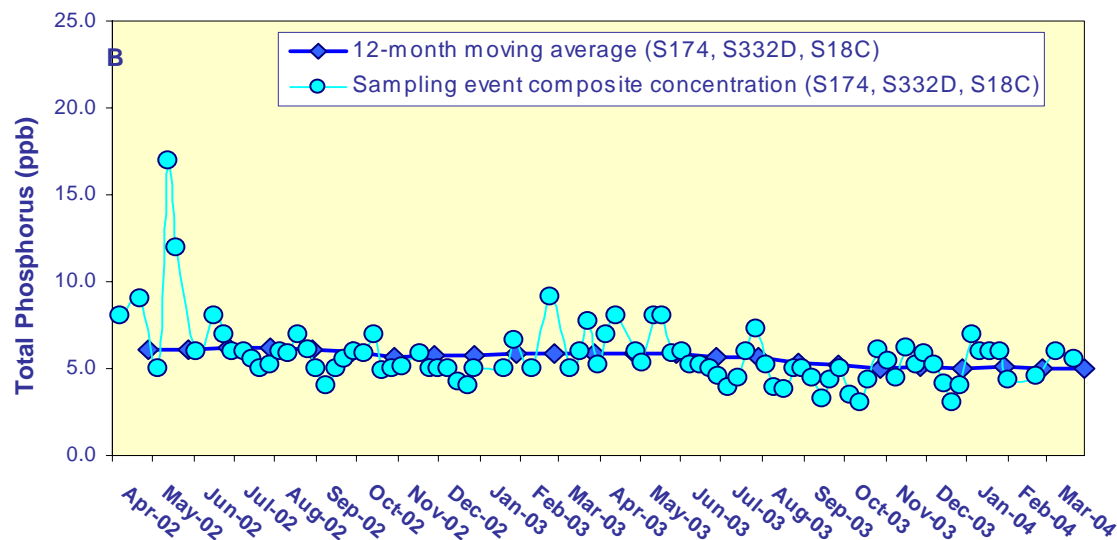


TP flow-weighted mean concentrations in inflows to the ENP through Taylor Slough and the Coastal Basins

The 12-month moving average FWMC at the end of each water year compared to the 11 ppb long-term total phosphorus limit.



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



**Taylor Slough and
the Coastal Basins
TP Concentration
Compliance Tracking**

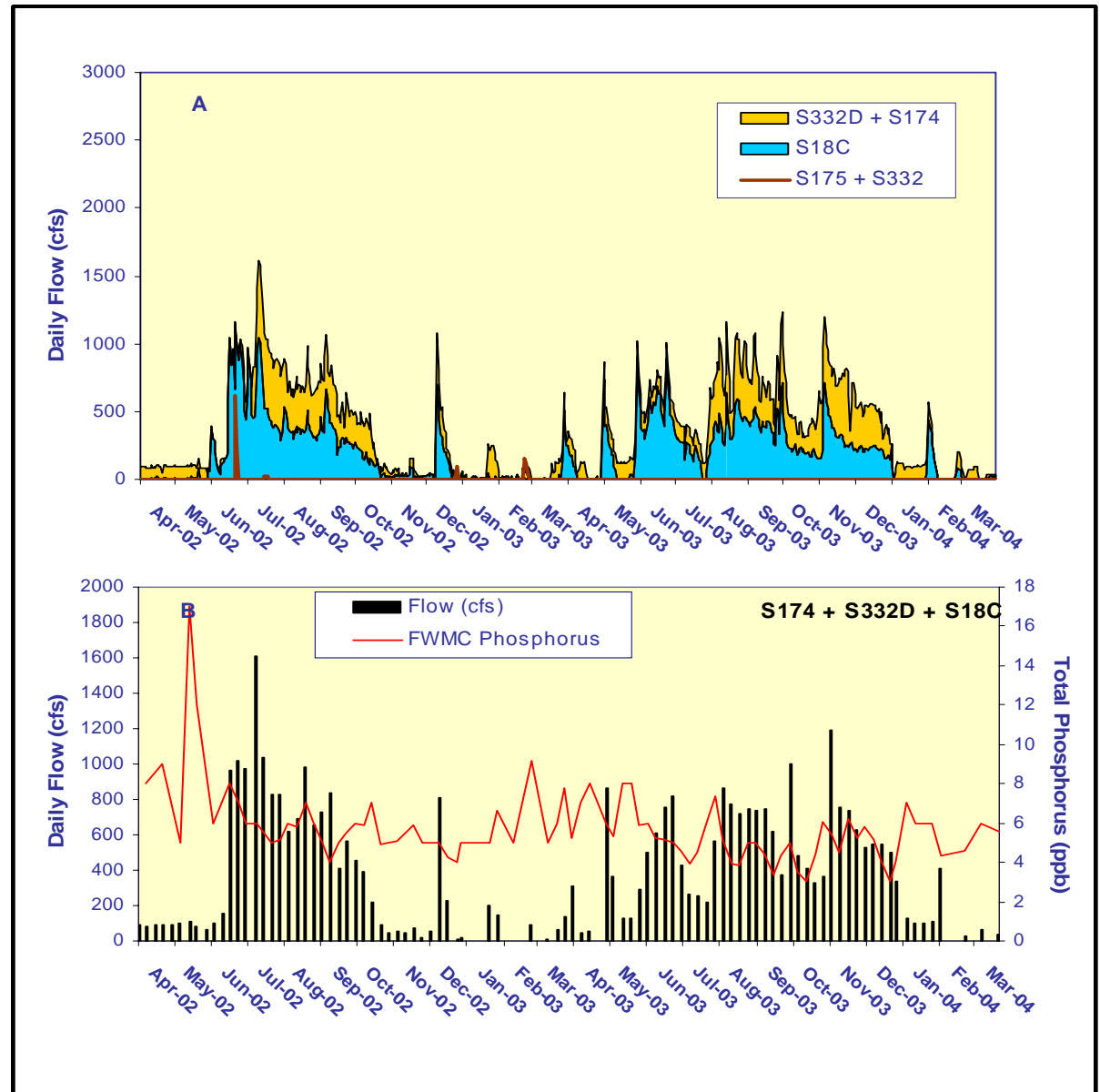
12-Month Period Ending On	Total Period Flow	Flow Weighted Mean Total Phosphorus	Limit (Effective 12/31/06)	Percent of Sampling Events Greater than 10 ppb	
			(ppb)	(%)	
	(Kac-ft)	(ppb)	Long Term	Guideline	Observed
30-Apr-02	331.1	6.1	11.0	53.1	0.0
31-May-02	336.4	6.1	11.0	53.1	5.0
30-Jun-02	364.3	6.2	11.0	53.1	4.9
31-Jul-02	392.1	6.1	11.0	53.1	4.7
31-Aug-02	388.3	6.1	11.0	53.1	4.7
30-Sep-02	371.8	6.0	11.0	53.1	4.7
31-Oct-02	316.0	5.7	11.0	53.1	4.5
30-Nov-02	271.6	5.8	11.0	53.1	4.8
31-Dec-02	249.8	5.7	11.0	53.1	4.7
31-Jan-03	234.2	5.8	11.0	53.1	5.0
28-Feb-03	229.9	5.9	11.0	53.1	5.0
31-Mar-03	230.5	5.9	11.0	53.1	4.9
30-Apr-03	231.5	5.8	11.0	53.1	4.8
31-May-03	244.2	5.8	11.0	53.1	0.0
30-Jun-03	249.8	5.6	11.0	53.1	0.0
31-Jul-03	209.0	5.6	11.0	53.1	0.0
31-Aug-03	216.1	5.3	11.0	53.1	0.0
30-Sep-03	221.9	5.2	11.0	53.1	0.0
31-Oct-03	233.8	5.0	11.0	53.1	0.0
30-Nov-03	276.6	5.1	11.0	53.1	0.0
31-Dec-03	293.9	5.0	11.0	53.1	0.0
31-Jan-04	295.9	5.1	11.0	53.1	0.0
29-Feb-04	301.4	5.0	11.0	53.1	0.0
31-Mar-04	297.9	5.0	11.0	53.1	0.0

Taylor Slough and the Coastal Basins TP Concentration Compliance Tracking for January – April 2004

12-Month Period Ending On	Total Period Flow	Flow Weighted Mean Total Phosphorus	Limit (Effective 12/31/06)	Percent of Sampling Events Greater than 10 ppb	
			(ppb)	(%)	
	(Kac-ft)	(ppb)	Long Term	Guideline	Observed
31-Jan-04	295.9	5.1	11.0	53.1	0.0
29-Feb-04	301.4	5.0	11.0	53.1	0.0
31-Mar-04	297.9	5.0	11.0	53.1	0.0
30-Apr-04	292.3	5.0	11.0	53.1	0.0

Taylor Slough and S18C – Daily Flows and Sampling Event FWMC

Daily flows into Everglades National Park through Taylor Slough and S18C.



Daily flows at Taylor Slough structures and S18C and the corresponding TP for individual sampling events.

Questions?