

Appendix 4-4: Water Year 2008 Supplemental Evaluations for Regulatory Source Control Programs in Non-Everglades Construction Project Basins

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INTRODUCTION

For the eight non-Everglades Construction Project (non-ECP) basins, the Florida Department of Environmental Protection (FDEP) permit No. 06,502590709 requires that the District report on the status of required water quality monitoring to evaluate their progress toward achieving established water quality standards and the effectiveness of the source control strategies. The data collection requirements for structures associated with the non-ECP basins are outlined in the non-ECP permit. Chapter 3A and Appendix 3A-4 of this volume provide the Water Year 2008 (WY2008) (May 1, 2007–April 30, 2008) update on the District's data collection efforts for non-ECP structures. This appendix summarizes the flow, total phosphorus (TP) load, and flow-weighted mean (FWM) TP concentration at each non-ECP basin discharge structure for WY1998 through WY2008.

NON-ECP BASIN SUPPLEMENTAL EVALUATION

BASIN-LEVEL MONITORING DATA

During WY2008, 11 structures served as direct or indirect discharge points from the non-ECP basins into the Everglades Protection Area (EPA). While eight of these structures are within the control of the District and are referred to as “into” structures under the non-ECP permit, this appendix also incorporates flow and TP data for the remaining three private structures, ACME1, ACME2, and NSID1. Since December 2006, all runoff from the Acme Improvement District (Acme) basin has been discharged into the C-51 canal, and is then generally directed to Stormwater Treatment Area 1E (STA 1-E). Direct untreated flows from the ACME1 and ACME2 structures into Water Conservation Area 1 no longer occur. Therefore, beginning with WY2009, the Acme basin will be designated as an ECP basin. In September 2007, the S-174 structure was plugged and the non-ECP permit was amended on April 18, 2008, to remove the S-174 structure from the into structure list and remove its monitoring equipment.

Appendix 3A-4 presents WY2008 water quality sampling statistics for these non-ECP basin discharge structures. **Table 1** of this appendix summarizes the annual and total flow, TP load, and FWM TP concentration for each structure. **Table 1** also summarizes the total flow, TP load, and FWM TP concentration for Water Conservation Areas (WCAs) 1, 2A, and 3A and Everglades National Park from non-ECP basins per water year and for the period of record.

Table 1. Water Years 1998 through 2008 (WY1998–WY2008) (May 1, 1998–April 30, 2008) non-Everglades Construction Project (non-ECP) basin structure flow volume, total phosphorus (TP) load, and flow-weighted mean (FWM) TP concentration to the Everglades Protection Area (EPA) by tributary basin.

Non-ECP Basin Structures into Water Conservation Area 1 (WCA-1)													
	WY	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008*	Total
ACME1	Flow Vol. (kac-ft)	26.394	19.791	19.220	6.252	15.670	8.813	10.018	12.317	14.161	13.611	0	146.247
	TP Load (mt)	2.865	3.662	3.627	0.501	1.720	0.867	0.957	2.021	1.403	1.968	0	19.591
	TP FWMC (ppb)	88	150	153	65	89	80	77	133	80	117	NF	109
ACME2	Flow Vol. (kac-ft)	20.898	16.943	19.790	7.696	17.524	9.469	9.871	11.246	12.767	12.711	0	138.915
	TP Load (mt)	2.604	3.616	3.320	1.111	3.286	1.387	1.227	2.948	1.832	2.217	0	23.548
	TP FWMC (ppb)	101	173	136	117	152	119	101	212	116	141	NF	137
Total (WCA-1)	Flow Vol. (kac-ft)	47.292	36.734	39.010	13.948	33.194	18.282	19.889	23.563	26.928	26.322	0	285.162
	TP Load (mt)	5.469	7.278	6.947	1.612	5.006	2.254	2.184	4.969	3.235	4.185	0	43.139
	TP FWMC (ppb)	94	161	144	94	122	100	89	171	97	129	NF	123

Non-ECP Basin Structures into Water Conservation Area 2A (WCA-2A)													
	WY	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Total
NSID1 Total (WCA-2A)	Flow Vol. (kac-ft)	7.364	6.762	9.881	2.412	2.494	0.688	0	0.354	0	0	0	29.955
	TP Load (mt)	0.300	0.150	0.329	0.048	0.049	0.025**	0	0.009	0	0	0	0.910
	TP FWMC (ppb)	33	18	27	16	16	NDF	NF	20	NF	NF	NF	25

* Pump stations ACME1 and ACME 2 stopped operation in December 2006

** Load calculated from arithmetic mean concentration

NDF No data with flow

NF No flow for period

Table 1. Continued.

Non-ECP Basin Structures into Water Conservation Area 3A (WCA-3A)													
	WY	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Total
S-190	Flow Vol. (kac-ft)	70.317	47.504	97.586	37.286	84.982	88.026	117.699	94.581	150.359	70.727	25.310	884.377
	TP Load (mt)	7.026	4.453	13.241	8.141	9.329	9.358	14.410	11.288	28.717	18.782	3.151	127.896
	TP FWMC (ppb)	81	76	110	177	89	86	99	97	155	215	101	117
S-140	Flow Vol. (kac-ft)	155.848	94.543	180.011	62.972	109.994	136.424	136.152	137.976	203.575	88.518	90.340	1,396.352
	TP Load (mt)	6.920	6.414	15.543	11.185	6.460	10.444	7.018	7.215	12.507	5.117	4.046	92.869
	TP FWMC (ppb)	36	55	70	144	48	62	42	42	50	47	36	54
G-123	Flow Vol. (kac-ft)	ND	ND	ND	38.379	52.047	0.000	2.299	0	0	0	0	92.725
	TP Load (mt)	ND	ND	ND	0.615	1.057	0.000	0.046	0	0	0	0	1.718
	TP FWMC (ppb)	ND	ND	ND	13	16	NF	16	NF	NF	NF	NF	15
S-9	Flow Vol. (kac-ft)	250.350	221.585	273.612	172.045	283.618	264.301	149.708	93.403	128.470	42.459	52.632	1,932.184
	TP Load (mt)	5.250	5.193	10.125	4.881	6.716	5.580	3.387	2.140	3.055	0.999	1.282	48.608
	TP FWMC (ppb)	17	19	30	23	19	17	18	19	19	19	20	20
S-9A	Flow Vol. (kac-ft)	NO	NO	NO	NO	NO	NO	107.609	56.584	61.345	81.353	87.799	394.689
	TP Load (mt)	NO	NO	NO	NO	NO	NO	1.735	0.832	1.207	1.307	1.523	6.604
	TP FWMC (ppb)	NO	NO	NO	NO	NO	NO	13	12	16	13	14	14
Total (WCA-3A)	Flow Vol. (kac-ft)	476.515	363.632	551.209	310.682	530.641	488.694	513.467	382.544	543.749	283.056	256.081	4,700.270
	TP Load (mt)	19.196	16.060	38.909	24.822	23.562	25.129	26.596	21.475	45.486	26.180	10.002	277.417
	TP FWMC (ppb)	33	36	57	65	36	42	42	46	68	75	32	48

ND No data / data incomplete for G-123 prior to WY2001

NF No flow for period

NO Structure not operational for period

Table 1. Continued.

Non-ECP Basin Structures into Everglades National Park (ENP)													
	WY	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Total
S-174	Flow Vol. (kac-ft)	NA	NA	NA	8.917	13.967	6.337	5.483	30.059	9.203	0.001	0*	73.967
	TP Load (mt)	NA	NA	NA	0.077	0.121	0.066	0.040	0.451	0.156	0.000	0*	0.910
	TP FWMC (ppb)	NA	NA	NA	7	7	8	6	12	14	5	NF*	10
S-175	Flow Vol. (kac-ft)	28.490	17.047	97.537	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	143.074
	TP Load (mt)	0.281	0.126	0.962	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.369
	TP FWMC (ppb)	8	6	8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8
S-18C	Flow Vol. (kac-ft)	226.424	127.267	193.256	151.696	172.835	134.932	158.813	100.689	188.505	80.357	124.381	1,659.156
	TP Load (mt)	2.793	1.884	1.907	1.684	1.525	1.200	1.845	0.988	3.298	0.693	1.163	18.980
	TP FWMC (ppb)	10	12	8	9	7	7	9	8	14	7	8	9
S-332	Flow Vol. (kac-ft)	160.029	107.189	199.949	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	467.167
	TP Load (mt)	1.382	0.926	1.726	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.034
	TP FWMC (ppb)	7	7	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7
S-332D	Flow Vol. (kac-ft)	NO	NO	NO	NO	144.183	90.238	128.002	76.480	153.803	45.048	32.689	670.443
	TP Load (mt)	NO	NO	NO	NO	0.939	0.676	0.908	0.586	2.055	0.299	0.258	5.721
	TP FWMC (ppb)	NO	NO	NO	NO	5	6	6	6	11	5	6	7
Total (ENP)	Flow Vol. (kac-ft)	414.943	251.503	490.742	160.613	330.985	231.507	292.298	207.228	351.511	125.406	157.070	3,013.807
	TP Load (mt)	4.456	2.936	4.595	1.761	2.585	1.942	2.793	2.025	5.509	0.992	1.421	31.015
	TP FWMC (ppb)	9	9	8	9	6	7	8	8	13	6	7	8

N/A Not applicable; flow and load calculation at S-175 and S-332 replaced in WY2001 with S-174 and S-332D

NO Structure not operational for period

* Structure S-174 was plugged in September 2007

BASIN-LEVEL WATER QUALITY SUMMARY

This section summarizes the water quality results for the non-ECP basins. These basins include the Feeder Canal, L-28, C-111, C-11 West, North New River Canal (NNRC), North Springs Improvement District (NSID), and Acme basins. Each figure includes two parts and represents daily, monthly, and annual data for each basin. **Figures 1a** through **7a** summarize the daily rainfall and the monthly TP load, FWM TP concentration, rainfall, and flow volume in WY2008. **Figures 1b** through **7b** summarize the annual TP load, FWM concentration, rainfall, and flow volume through WY2008 for each basin. This water quality summary for each basin is discussed in detail in Chapter 4 of this volume.

Feeder Canal Basin

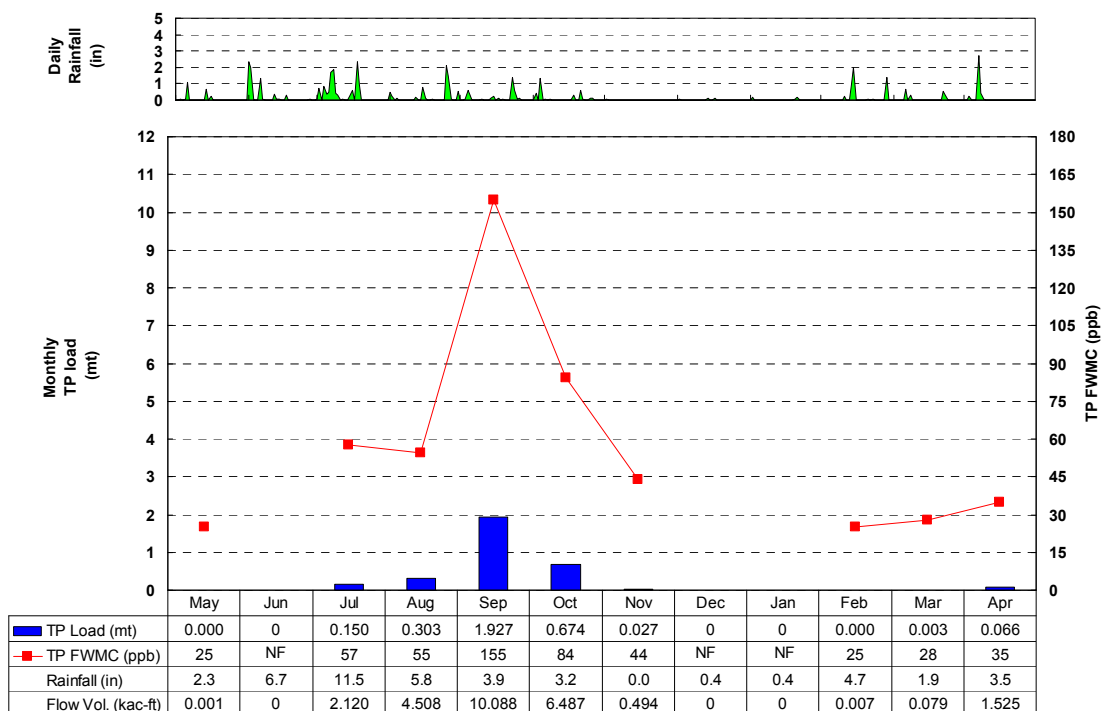


Figure 1a. Feeder Canal basin daily rainfall (top) and the monthly TP load, FWM TP concentration, rainfall, and flow volume to the EPA for WY2008 (bottom) (NF=no flow for period).

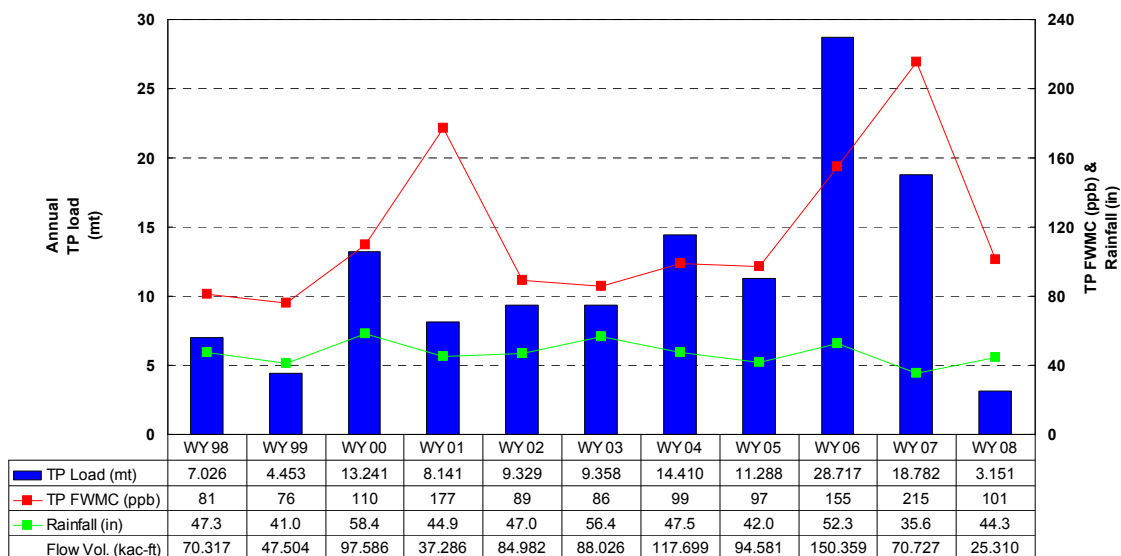


Figure 1b. Feeder Canal basin annual TP load, FWM TP concentration, rainfall, and flow volume to the EPA for WY1998-WY2008.

L-28 Basin

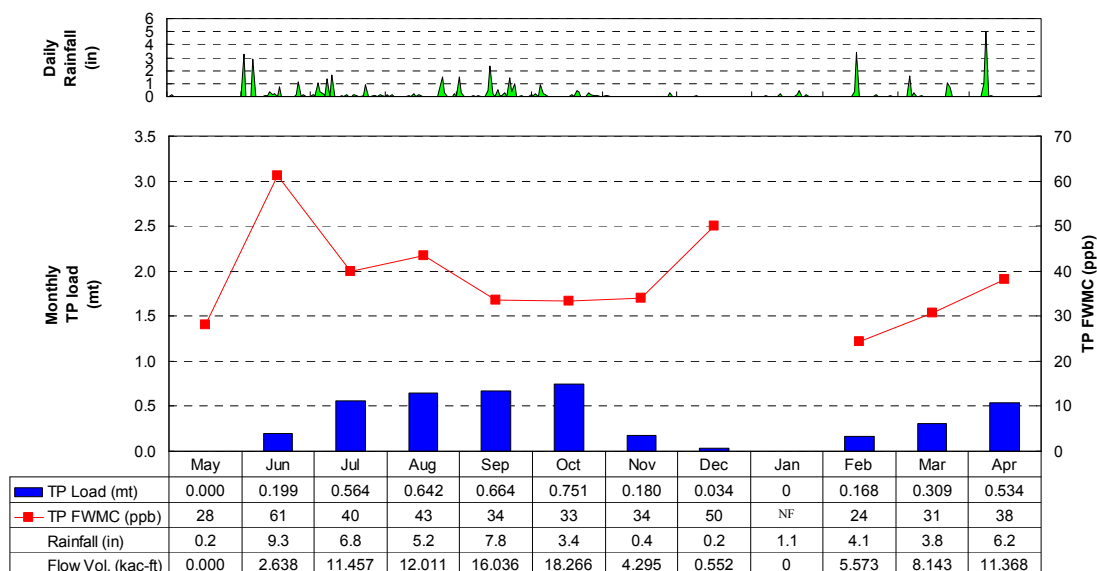


Figure 2a. L-28 basin daily rainfall (top) and monthly TP load, FWM TP concentration, rainfall, and flow volume to the EPA for WY2008 (bottom) (NF = no flow for period).

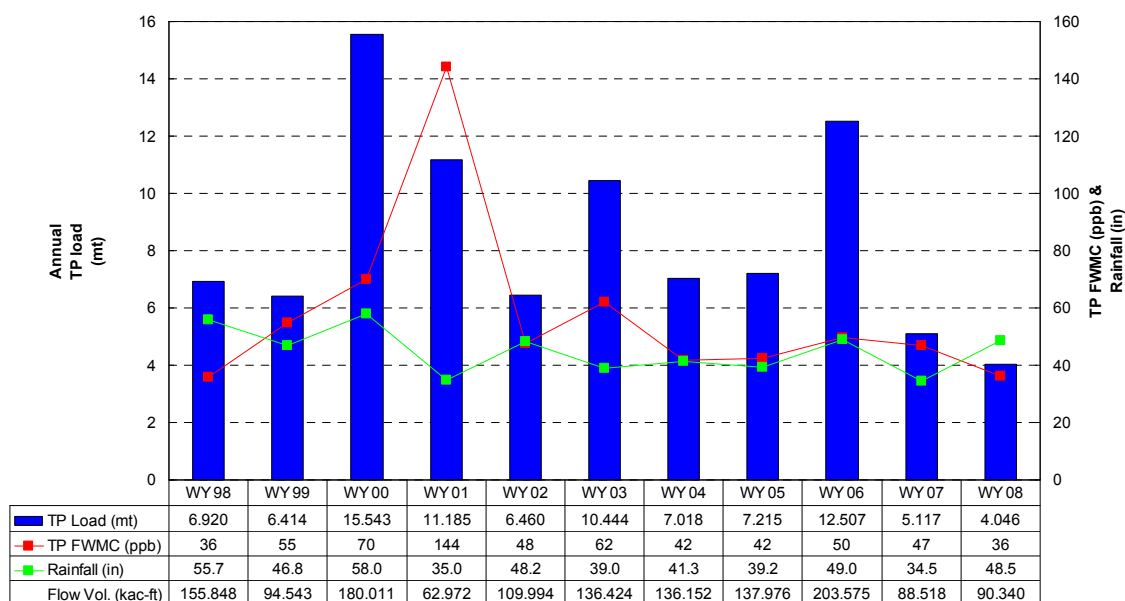


Figure 2b. L-28 basin annual TP load, FWM TP concentration, rainfall, and flow volume to the EPA for WY1998–WY2008.

C-111 Basin

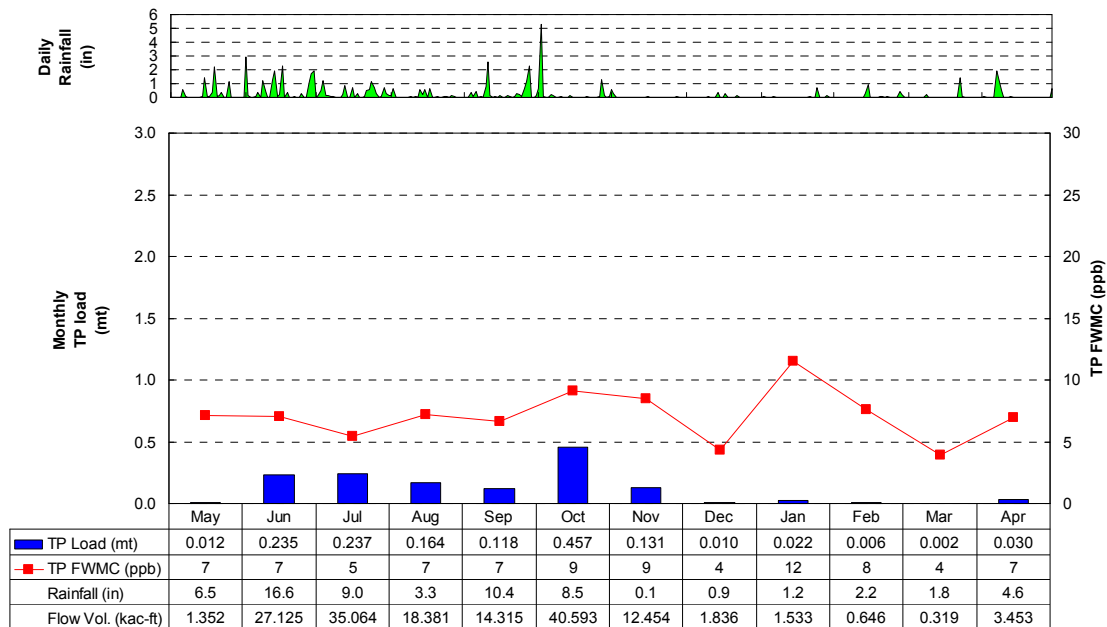


Figure 3a. C-111 basin daily rainfall (top) and the monthly TP load, FWM TP concentration, rainfall, and flow volume to the EPA for WY2008 (bottom).

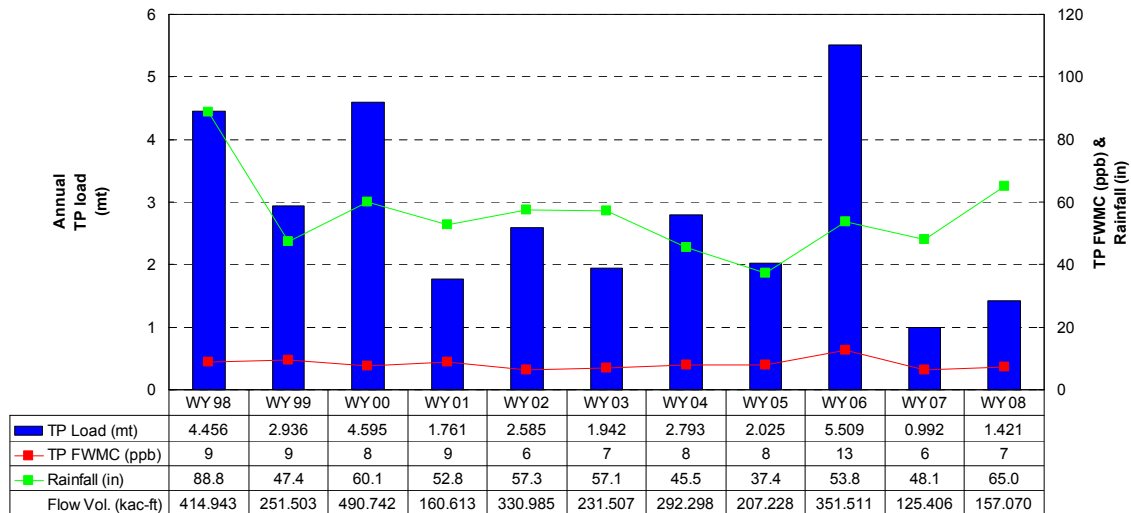


Figure 3b. C-111 basin annual TP load, FWM TP concentration, rainfall, and flow volume to the EPA for WY1998–WY2008.

Note: WY1998–WY2000 represented by structures S-18C, S-175, and S-332.
 WY2001–WY2008 represented by structures S-18C, S-174, and S-332D.
 Structure S-174 was plugged in September 2007.

C-11 West Basin

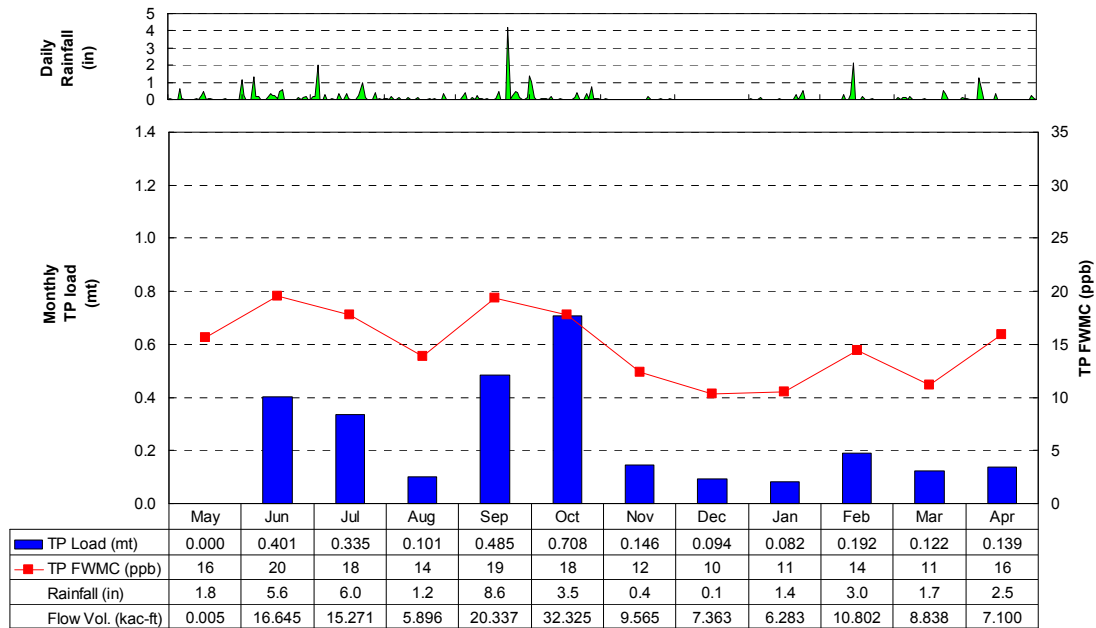


Figure 4a. C-11 West basin daily rainfall (top) and the monthly TP load, FWM TP concentration, rainfall, and flow volume to the EPA for WY2008 (bottom).

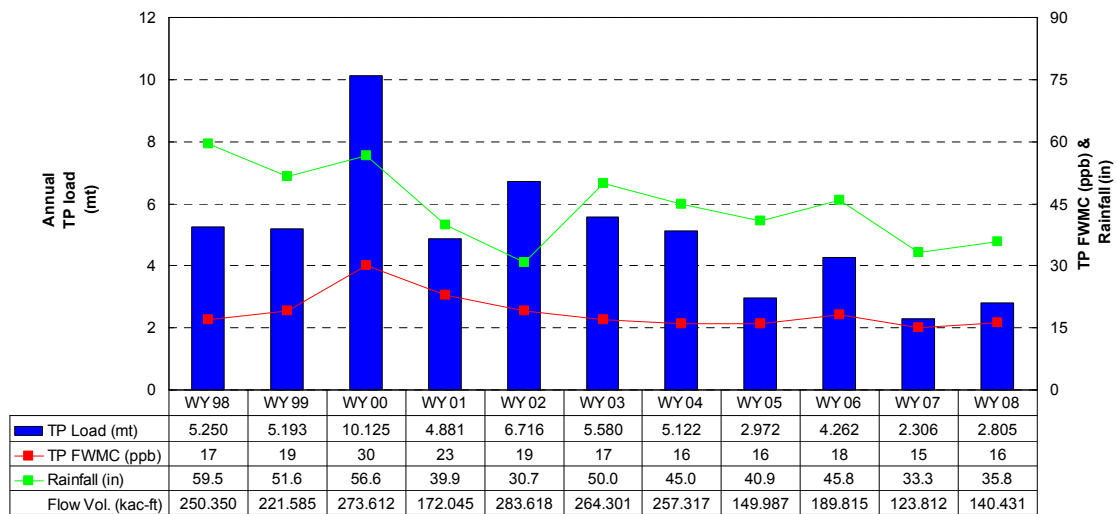


Figure 4b. C-11 West basin annual TP load, FWM TP concentration, rainfall, and flow volume to the EPA for WY1998–WY2008.

NNRC Basin

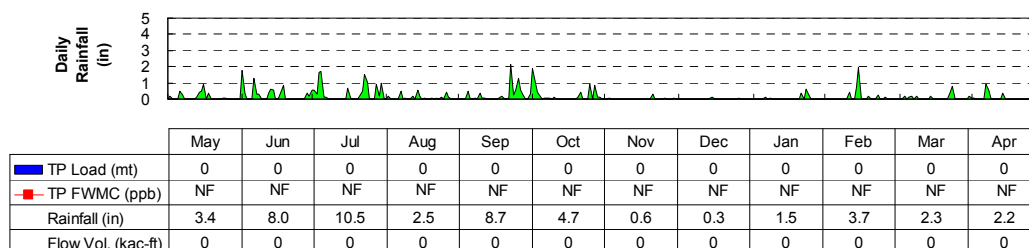


Figure 5a. North New River Canal Basin daily rainfall (top) and monthly TP load, FWM TP concentration, rainfall, and flow volume to the EPA for WY2008 (bottom) (NF = no flow for period).

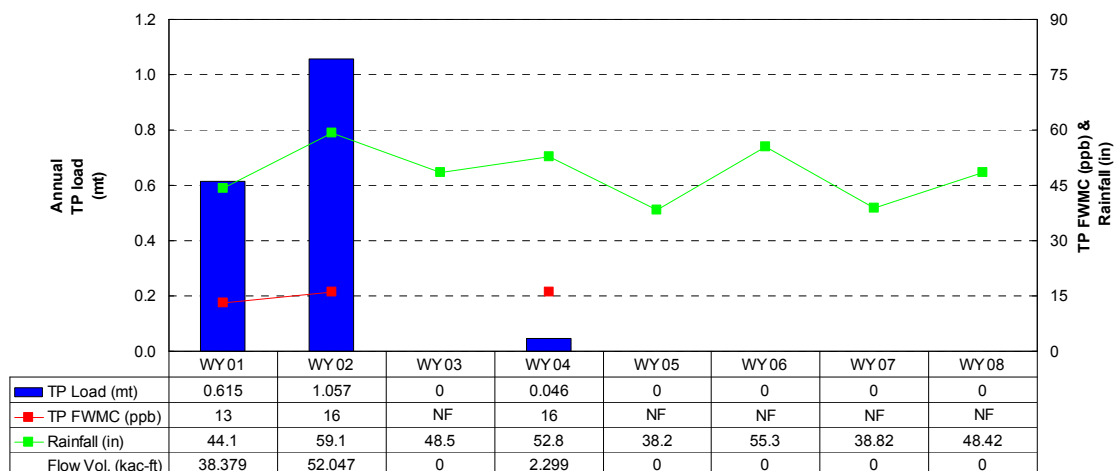


Figure 5b. North New River Canal Basin annual TP load, FWM TP concentration, rainfall, and flow volume to the EPA for WY2001–WY2008 (NF = no flow for period).

Note: G-123 flow and water quality data incomplete prior to WY2001.

NSID Basin

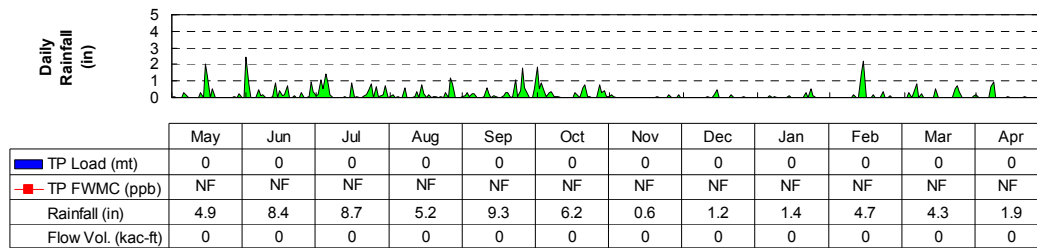


Figure 6a. North Springs Improvement District Basin daily rainfall (top) and monthly TP load, FWM TP concentration, rainfall, and flow volume to the EPA for WY2008 (bottom) (NF = no flow for period).

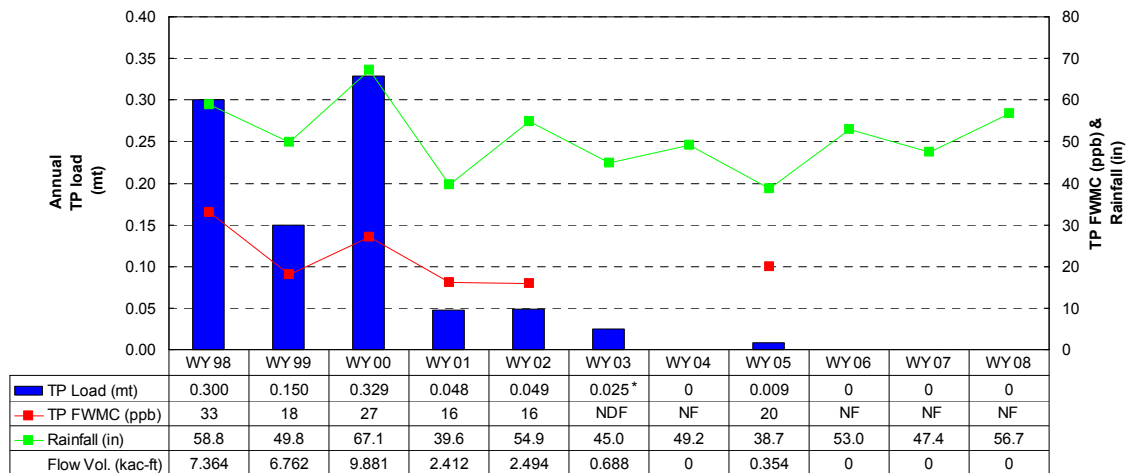


Figure 6b. North Springs Improvement District Basin annual TP load, FWM TP concentration, rainfall, and flow volume to the EPA for WY1998–WY2008 (NF = no flow for period; NDF = no data with flow available).

* calculated with annual flow and arithmetic mean concentration

Acme Basin

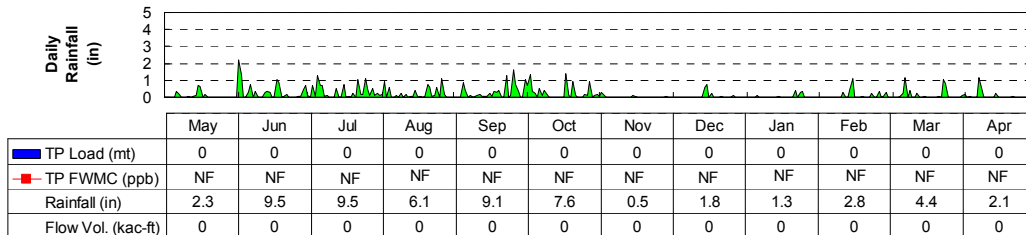


Figure 7a. Acme Improvement District Basin daily rainfall (top) and monthly TP load, FWM TP concentration, rainfall, and flow volume to the EPA for WY2008 (bottom) (NF = no flow for period).

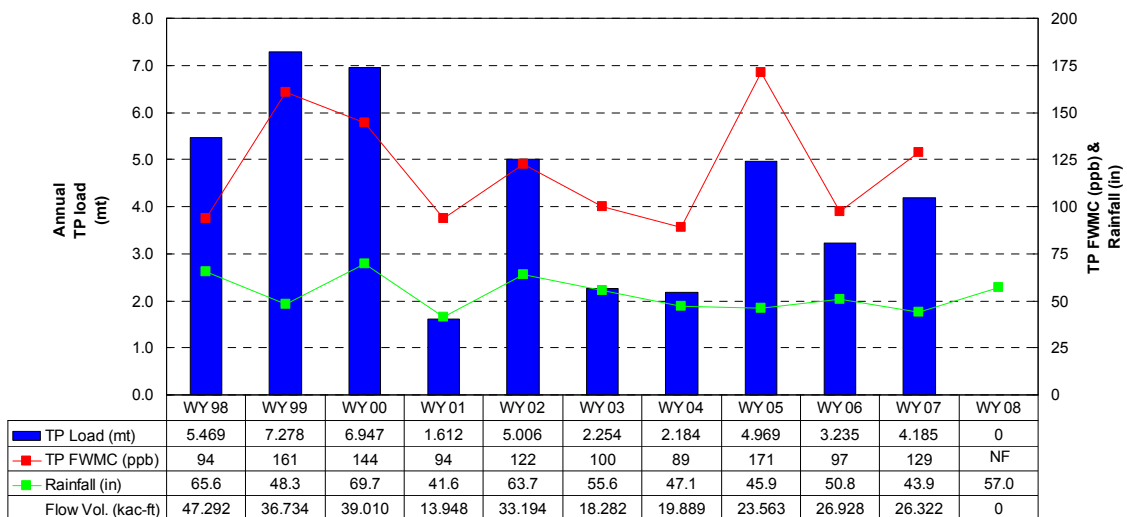


Figure 7b. Acme Improvement District Basin annual TP load, FWM TP concentration, rainfall, and flow volume to the EPA for WY1998-WY2008 (NF = no flow for period). Pump stations ACME1 and ACME 2 stopped operation in December 2006.

UPSTREAM (SUB-BASIN) LEVEL WATER QUALITY SUMMARY

Water quality (specifically TP concentration) in Everglades non-ECP basins is monitored at the upstream sampling sites to identify high phosphorus areas within each basin. The basins with upstream monitoring sites include Acme Improvement District (Acme) basin; North Springs Improvement District (NSID) basin; C-11 West basin consisting of South Broward Drainage District (SBDD), Central Broward Water Control District (CBWCD), and Indian Trace Development District (ITDD); North New River Canal (NNRC) Basin; Boynton Farm Basin; Feeder Canal Basin (West Feeder sites, PC-17A, G-108, and WWeir); and L-28 basin (USSO and L-28U). This section summarizes the water quality data for grab and auto-sampler sampling sites and maps for each basin. **Tables 2-8** summarize the TP concentration and average TP concentration for each sampling site. **Figures 8-17** show the annual TP load, FWM TP concentration, and flow volume for upstream structures in the Feeder Canal and L-28 basins.

Table 2. Village of Wellington upstream monitoring sites: summary of TP data (ppb).

<u>Village of Wellington</u>	VOW1	VOW117	VOW152	VOW1A	VOW2	VOW3	VOW35	VOW4	VOW40	VOW42	VOW43	VOW44	VOW45	VOW46	VOW6	VOW63P	VOW63R	VOW7	VOW70	VOW72	VOW85	VOWB2
07/10/2000						29																
07/11/2000	110				110	39	34	48													51	
07/25/2000	55				130	42															9	
08/01/2000	49				68																	
08/03/2000	59				62	46	36														49	
08/07/2000	34				62																	
08/10/2000	42				69																	
08/16/2000	34				56	30	30														4	
08/17/2000	60				74																	
08/24/2000	51				88																	
08/25/2000	49				120																	
08/31/2000	55				95																	
09/15/2000	4				14																	
09/19/2000					40	22	15	29													4	
09/21/2000	63				89																	
09/28/2000	54				70	52	43	36													52	
09/29/2000	51				83	44	63	47													28	
10/04/2000	78				160																	
10/09/2000	100				150	82	80	95									370				89	
10/23/2000	37				75																	
10/26/2000						54	40														28	
10/31/2000					61																	
11/29/2000	35				44	17								26					97			
12/11/2000	46				57	69	62	35													110	
12/14/2000	22				30																	
12/21/2000	23				41																	
03/20/2001	170	280	28	40	380	24	28	4	37	110	290	460	53			300	370			4	26	
03/21/2001														13					95			
03/22/2001	120				27																	
03/29/2001	35																					

Table 2. Continued.

<u>Village of Wellington</u>	VOW1	VOW117	VOW152	VOW1A	VOW2	VOW3	VOW35	VOW4	VOW40	VOW42	VOW43	VOW44	VOW45	VOW46	VOW6	VOW63P	VOW63R	VOW7	VOW70	VOW72	VOW85	VOWB2
06/02/2001	140				140	43	56														33	
06/08/2001	37				120																	
06/13/2001	67				240	43	46	68													44	
06/22/2001	48				120																	
07/09/2001	58																					
07/13/2001	58				200	56	75	68													65	
07/20/2001	240				240																	
07/24/2001														56		490	330		210		100	
07/27/2001	97				250	94	140	160														
08/02/2001	82				190																	
08/10/2001					140																	
08/21/2001	71				120																	
09/07/2001	81				120																	
09/10/2001	48				130	99	98							23			110		120		61	
09/13/2001								38														
09/25/2001	90				130	74	76	75						19			110				42	
10/03/2001	120				160																	
10/09/2001	77				100																	
10/22/2001	87				150	75	89	62						23			190				76	
11/01/2001	57				110																	
12/07/2001	55				79	28	28	24													48	
12/31/2001	43				62	25	32														43	
01/03/2002					99																	
02/11/2002	69				120	53	44							25			280		40		68	
02/20/2002	46				94																	
06/14/2002						21	21	73													72	
06/28/2002						72	53	98													61	
07/15/2002	100				240	63	82	130													110	
08/19/2002	52				100	46	59														51	
09/03/2002						51	74														400	

Table 2. Continued.

<u>Village of Wellington</u>	VOW1	VOW117	VOW152	VOW1A	VOW2	VOW3	VOW35	VOW4	VOW40	VOW42	VOW43	VOW44	VOW45	VOW46	VOW6	VOW63P	VOW63R	VOW7	VOW70	VOW72	VOW85	VOWB2
12/10/2002	54				89	39	26	26									180		110		36	
03/24/2003	54	120			75								130	34			180		75			
03/28/2003								82														
04/28/2003						28	38	38											73		37	
04/29/2003	41	88	29		76								130				170				21	
05/23/2003						90	25															
05/27/2003	59	210			84			86					110	32			210		60			
05/28/2003																						
06/07/2003						37	33													57		
06/12/2003	120	190			76									22			190		71			
07/31/2003	57	110	27		69	51	50	57						23			92		37			
08/14/2003	96				150																	
08/21/2003	57				150	62	60						92	24			140		155			
08/28/2003	84				150			86														
09/11/2003	78				160																	
09/26/2003	73	120			100	36	25						75				130		83			
11/05/2003	220	130			71	33	22						57				220					
11/06/2003	63		43		69			49														
12/11/2003	34	64	20		40	16	18										99		41			54
01/30/2004	38				40																	
02/01/2004	49	210	23		61			37		50	110	150	95		35	96	110		58	32		60
02/26/2004	64	190	27		92												170		110			53
05/13/2004	42				61																	
06/08/2004							26						180		29							
06/09/2004					65												110		48			
08/09/2004					46		48								19							
08/11/2004	48							160														
08/12/2004	44				57																	
08/19/2004					43																	
08/25/2004	70	93	51		92			29					84				130		110			58

Table 2. Continued.

<u>Village of Wellington</u>	VOW1	VOW117	VOW152	VOW1A	VOW2	VOW3	VOW35	VOW4	VOW40	VOW42	VOW43	VOW44	VOW45	VOW46	VOW6	VOW63P	VOW63R	VOW7	VOW70	VOW72	VOW85	VOWB2
09/09/2004	200				350																	
09/16/2004	160				120																	
09/21/2004	110	360	59		140	72		73					110		90		250		120			200
09/23/2004	130				160																	
09/30/2004	130				270																	
10/14/2004	150				160																	
11/23/2004	58				97	62											110		100			67
03/10/2005	100	83	38		140	36	48								37		350		87			100
03/17/2005	58				150																	
03/28/2005	44				79												210					52
05/31/2005	43	340	34		110	24		56							38		210		56			65
06/02/2005	48				110																	
06/09/2005	73				120																	
06/16/2005	77				77	29									71							
06/20/2005	85		43		130	43		130							95		150		73			140
06/23/2005	93				65																	
06/30/2005	160				160																	
07/07/2005	76				150	35	43	90							58		210					180
07/21/2005	54				72																	
08/08/2005	55				67	61									52		290					65
08/25/2005	49				77	66									52							
08/31/2005	64	90	48		91	57							95		55		130		61			78
09/29/2005	48	100			96	210									66		70		50			
10/20/2005	60				67	60									48							82
10/27/2005	87					57	74								85							
11/03/2005	66																					
11/10/2005	58				100																	
11/23/2005	40				48																	
11/30/2005		130			76	53									59		120					
12/22/2005					72																	

Table 2. Continued.

<u>Village of Wellington</u>	VOW1	VOW117	VOW152	VOW1A	VOW2	VOW3	VOW35	VOW4	VOW40	VOW42	VOW43	VOW44	VOW45	VOW46	VOW6	VOW63P	VOW63R	VOW7	VOW70	VOW72	VOW85	VOWB2
01/17/2006	40	94			55												47		31			48
02/04/2006		270			97	56											68					64
02/08/2006	39				58		29								68							
05/22/2006	51				39	45																
05/29/2006	50	400			100	140	61	73					220		60							
05/31/2006	72				210																	
06/28/2006	49		41		130	42		66							46		370		250			58
07/12/2006	50	180			120	37		93	96						45				100			100
07/19/2006	66																					
07/28/2006	58				130	38		110							58							
08/09/2006	52				86																	
08/16/2006	66	440			79	44		67							240		340		83			130
08/23/2006	95				190																	
08/29/2006	110				150																	
08/31/2006					110	61		670							150		280					
09/06/2006	180				410																	
09/13/2006	120	260	68		230	65	110	110							95							240
09/20/2006	99				110																	
09/27/2006	67				160																	
10/04/2006	65	190			190		56								58		230					110
10/27/2006	55				91																	
11/02/2006	52				77	33	43	42							42							
12/14/2006	120	470			150	40	42	54							120		360		240			
12/19/2006	110				120																	
06/15/2007							34	54	20	58					25							
06/18/2007											170	120	58							37		
07/02/2007							31	53	46	130	230	140	70		48							
07/16/2007						38	29	71	70	87	160	140	70		33							
07/30/2007						51	50	75	45	94	110	95	61		390			44		43		
08/20/2007						70	50	77	50	76					210							

Table 2. Continued.

<u>Village of Wellington</u>	VOW1	VOW117	VOW152	VOW1A	VOW2	VOW3	VOW35	VOW4	VOW40	VOW42	VOW43	VOW44	VOW45	VOW46	VOW6	VOW63P	VOW63R	VOW7	VOW70	VOW72	VOW85	VOWB2
09/17/2007							55	53	40	76					37							
09/18/2007											290	66	58					35		40		
10/02/2007						95		130	120	180	430	170	85		140			94		78		
10/17/2007						82	96	71	82	130	300	210	72					69				
10/18/2007																				70		
11/01/2007						110	81	41	75	67	170	120	86		75			56		100		
11/28/2007						51									35			30				
12/13/2007						83		40							22			26				
12/14/2007						110	40	51	48	92	140	390	75		98			69		46		
01/23/2008						42		30	18	42					37							
02/12/2008						57		33	30	58			78		120							
02/13/2008							37				330	120						100		53		
02/27/2008						56	17	32	43	86			110		41			31				
03/23/2008						48	35	74	74	140	300	140	68		94			79		49		
04/07/2008						51	19	35	52	120	220	120	65		85			47		42		
Average	73	200	39	40	113	55	49	77	56	94	232	174	92	27	78	295	197	57	95	50	63	95
<i>N</i>	119	26	15	1	124	76	58	56	17	17	14	14	26	12	43	3	39	12	30	12	30	21
Water Years(May 1 to April 30)																						
<i>N: number of sample for WY</i>																						
WY 01	57	280	28	40	87	42	43	42	37	110	290	460	53	20		300	370		96	4	41	
<i>N</i>	25	1	1	1	26	13	10	7	1	1	1	1	1	2		1	2		2	1	11	
WY 02	80				142	59	68	71						29		490	204		123		58	
<i>N</i>	21				22	10	10	7						5		1	5		3		10	
WY 03	60	104	29		116	46	50	75					130	34			177		86		110	
<i>N</i>	5	2	1		5	7	7	6					2	1			3		3		7	
WY 04	78	153	28		94	46	33	63		50	110	150	86	25	35	96	151		77	32	39	56
<i>N</i>	14	8	5		14	7	7	5		1	1	1	5	4	1	1	9		8	1	2	3
WY 05	96	179	49		127	57	41	87					125		44		193		93			95

Table 2. Continued.

<u>Village of Wellington</u>	VOW1	VOW117	VOW152	VOW1A	VOW2	VOW3	VOW35	VOW4	VOW40	VOW42	VOW43	VOW44	VOW45	VOW46	VOW6	VOW63P	VOW63R	VOW7	VOW70	VOW72	VOW85	VOWB2
N	14	3	3		16	3	3	3					3		4		6		5			5
WY 06	66	171	42		90	63	49	92					95		62		144		54			90
N	20	6	3		21	12	3	3					1		12		9		5			8
WY 07	79	323	55		144	55	62	143	96				220		91		316		168			128
N	20	6	2		20	10	5	9	1				1		10		5		4			5
WY 08						67	44	58	54	96	238	153	74		93			57		56		
N						14	13	16	15	15	12	12	13		16			12		10		

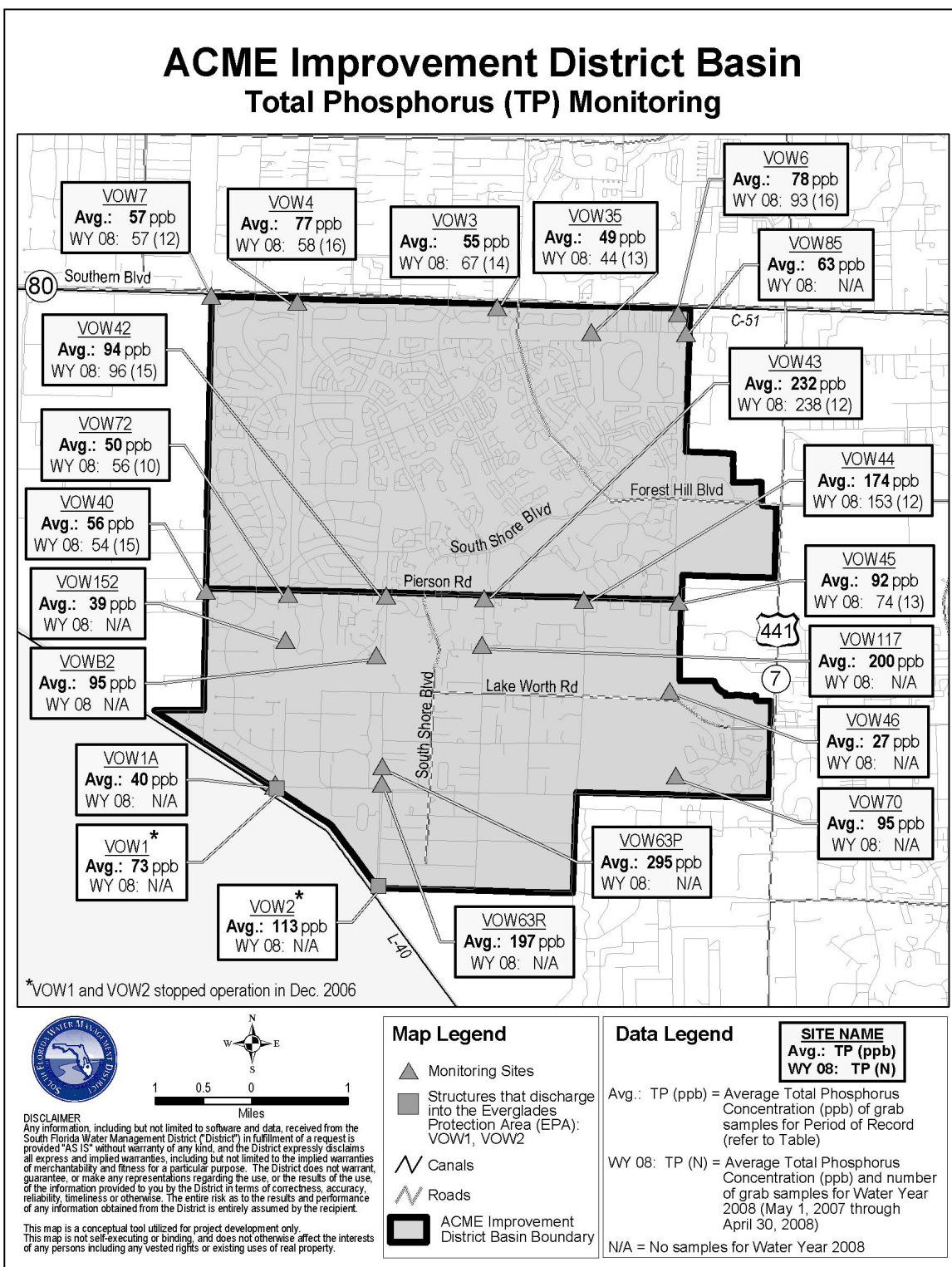


Figure 8. Village of Wellington upstream monitoring sites: summary of TP data (ppb).

Table 3. NSID basin upstream monitoring sites: summary of TP data (ppb).

North Springs Improvement District	NSIDEC02	NSIDNC01	NSIDNP02	NSIDNW03	NSIDNW05	NSIDWC06	NSIDWC07	NSIDEA01	NSIDEA03
06/26/2001			32	27	122	30	38		
07/25/2001			48	26	172	35	48		
09/13/2001	27	35	42	130	91	28	39		
09/27/2001			42						
09/28/2001	31	75	41	74	271	33	41		
10/22/2001		33	49	135	265	39			
11/06/2001	25	73	54	135	235	31	43		
03/08/2002			36						
08/11/2003		42				28	40		
08/27/2003		34	27			23	34		
09/26/2003		28	22			18	24		
07/21/2004	17	35	26			27	36	23	27
09/22/2004	24	16	18			35	25	24	24
10/22/2004	19	30	25			22	38	14	34
06/02/2005	22	33	37			32	39	28	23
06/22/2005	26	23	39			58	39	39	26
07/20/2005	16	15	20			16	18	19	17
08/09/2005	33	15	22			22	32	31	32
09/08/2005	22	22	24			23	29	14	22
10/07/2005	14	14	14			14	13	14	15
11/03/2005	26	28	39			31	52	22	70
06/02/2006	21	26	24			30	32	25	33
06/29/2006	15	41	28			26	26	50	22
07/25/2006	13	29	22			23	21	15	27
09/01/2006	9	17	11			10	14	22	15
06/05/2007	8	17	23			17	23	22	16
07/10/2007	3	11	20			3	9	3	15
08/04/2007	11	23	21			21	20	18	13
08/28/2007	8	16	16			1	22	15	17
09/25/2007	17	22	23			19	28	13	22
10/31/2007	10	19	15			14	20	8	14
04/07/2008	1	17	17			13	18	10	13
Average	17	28	28	88	193	24	30	20	24
<i>N</i>	24	28	31	6	6	30	29	21	21
Water Years(May 1 to April 30)									
<i>N: number of sample for WY</i>									
WY 02	28	54	43	88	193	33	42		
<i>N</i>	3	4	8	6	6	6	5		
WY 04		35	25			23	33		
<i>N</i>		3	2			3	3		
WY 05	20	27	23			28	33	20	28

Table 3. Continued.

<u>North Springs Improvement District</u>	NSIDEC02	NSIDNC01	NSIDNP02	NSIDNW03	NSIDNW05	NSIDWC06	NSIDWC07	NSIDEA01	NSIDEA03
<i>N</i>	3	3	3			3	3	3	3
WY 06	23	21	28			28	32	24	29
<i>N</i>	7	7	7			7	7	7	7
WY 07	15	28	21			22	23	28	24
<i>N</i>	4	4	4			4	4	4	4
WY 08	8	18	19			13	20	13	16
<i>N</i>	7	7	7			7	7	7	7

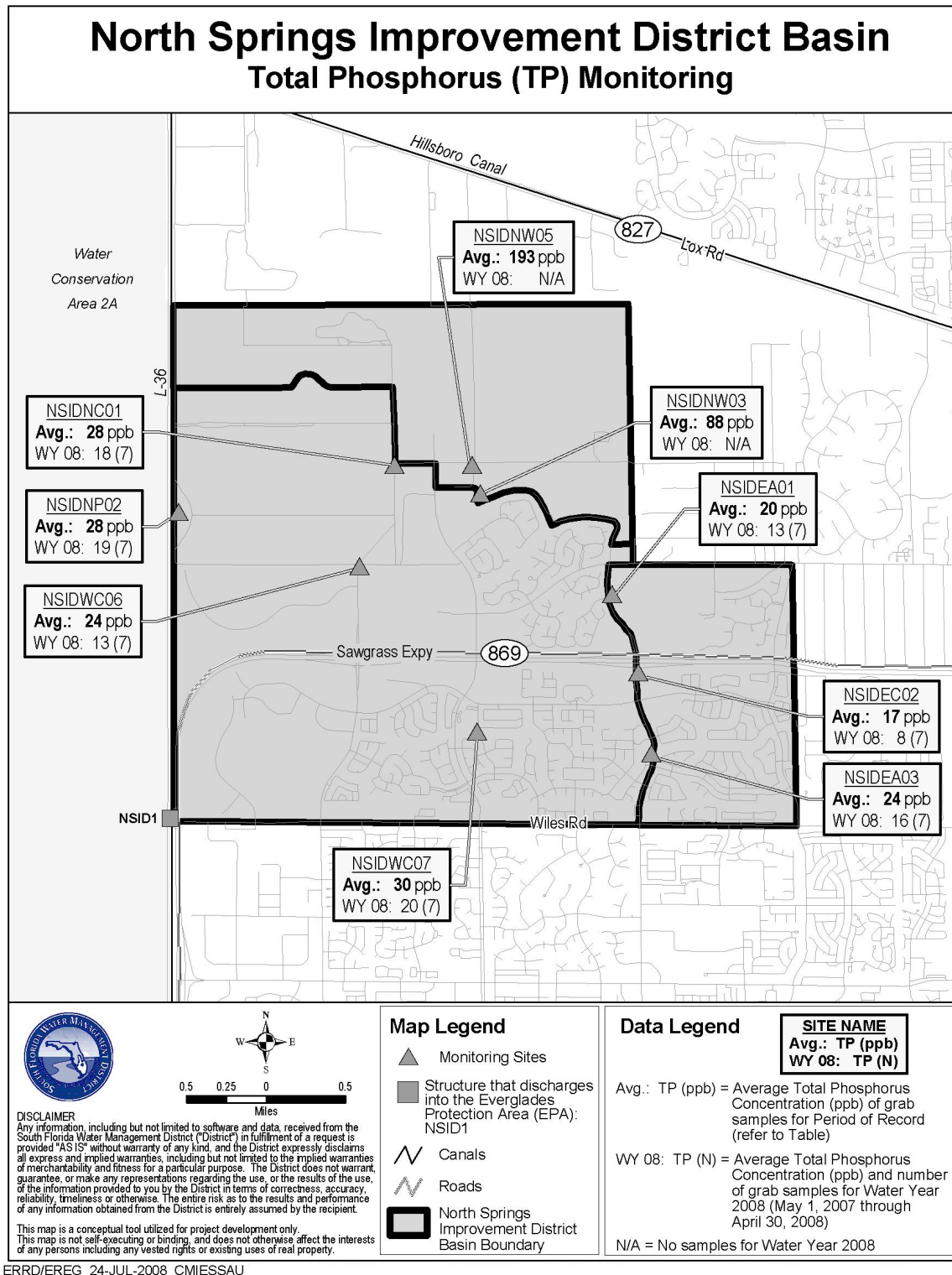


Figure 9. NSID Basin upstream monitoring sites: summary of TP data (ppb).

Table 4a. South Broward Drainage District (SBDD) upstream monitoring sites: summary of TP data (ppb).

<u>South Broward Drainage District</u>	<u>C110.0TS1</u>	<u>C1100.8TS</u>	<u>C1101.0TS</u>	<u>C1101.3TS</u>	<u>C1102.0TS</u>	<u>C1102.1TS</u>	<u>C1102.8TS</u>	<u>C1103.3TS</u>	<u>C1103.5TS</u>	<u>C1104.3TS</u>	<u>C1104.6TS</u>	<u>C1104.9TS</u>	<u>C111.3TS1</u>	<u>C112.0TS1</u>	<u>C112.0TS2</u>	<u>C112.8TS1</u>	<u>C112.8TS2</u>	<u>C113.3TS1</u>	<u>C114.3TS1</u>	<u>C114.9TS1</u>
07/14/2000		7		15	19		108	119			27	40								
07/28/2000							22			24						13				
08/03/2000	13	8		21	17		29	121		20				20		12				
03/20/2001					34		90													
05/25/2001		7	648	46	50	630	139	138		111	23	101								
06/26/2001		8		15	33		35	190			19	50								
07/11/2001	22	8	170	17	27	200	45	220	51	34	23	73		14		11			13	
08/02/2001	18		280					160		28				20		12				
09/10/2001														31						
10/01/2001								130												
10/22/2001	20	2	660	13	11	300	33	140		32	13	26		2		2			13	
11/05/2001	14	6	180	8	10		13	54		39	13	18		10		6			10	
02/11/2002	2	5		10	10		19	14			9	16		10		10			13	
05/20/2002	27	3		25	16		22	24	20					18		11			21	
06/14/2002	20	2	310	290	2		51	87	230					12		6			26	
07/18/2002				13	8		30	100			23	51	8		13		19	170		41
08/23/2002				11	12	270	33	110			16	33	15		16		10	320		44
09/12/2002				16	15		22	71		17	16	37	15		13		38	250		23
12/09/2002			540	17	26		23	250		15	15	17	20		14		56			39
03/17/2003			410	17	21		84	110		27	23	34	14				49	300		23
05/14/2003			120				180	92									95	370		56
05/28/2003			630	33	88	540	210	300	140	120	30	140	26		45		65	120		210
08/21/2003			440	22	17		110	190		25	18	45	25		14		16	210		130
09/26/2003			110	9	4		110	32	26	24	5	17	10		4		42	340		20
11/03/2003			1100	16	12		40	45		21	14	32	22		11		25	590		59
07/20/2004			170	28	26		68	41		69	36		20		21		250	470		
08/03/2004			480	29	20		140	190		34	20		25		15		34	390		
08/23/2004			260	22	14		57	120		42	29		16		13		34	130		

Table 4a. Continued.

South Broward Drainage District	C110.0TS1	C1100.8TS	C1101.0TS	C1101.3TS	C1102.0TS	C1102.1TS	C1102.8TS	C1103.3TS	C1103.5TS	C1104.3TS	C1104.6TS	C1104.9TS	C111.3TS1	C112.0TS1	C112.0TS2	C112.8TS1	C112.8TS2	C113.3TS1	C114.3TS1	C114.9TS1
09/27/2004			140	16	10		46	65		21	12		15		10		11	72		
03/04/2005			140	12	15		14	14		12			12		9		56	73		16
03/18/2005			410	29	7		74	98		24			5		2		90	59		
04/08/2005			280	11	17		25	21		34			10		9		99	300		
05/04/2005			330	21	34		42	14		33			15		15		92	40		
06/01/2005			150	16	15		23	14		16			12		16		60	71		
06/17/2005			64	34	20		41	54		34	27		16		15		83	350		39
08/08/2005			130	14	11		33	100		12	14		15		13		55	130		35
10/03/2005			220	22	14		63	250		27	18		14		16		43	280		64
07/12/2006			210	54	20	1300	180	150		43	25	120	22		22		45	590		100
08/17/2006			54	12	12	19	21	25		12			15		13		18	17		27
06/07/2007					17		218	201		72			17		18		36	101		86
07/17/2007					3	59	3	12		3			15		3		3	34		58
09/10/2007					13	45	65	20		17	16				11		23	497		
10/30/2007					7	197	25	39		3	8				9		91	27		
Average	17	6	320	28	19	356	65	103	93	33	19	50	16	15	14	9	55	233	16	59
<i>N</i>	8	10	27	33	38	10	40	40	5	32	26	17	25	9	26	9	28	27	6	18
Water Years(May 1 to April 30)																				
<i>N: number of sample for WY</i>																				
WY 01	13	8		18	23		62	120		22	27	40		20		13				
<i>N</i>	1	2		2	3		4	2		2	1	1		1		2				
WY 02	15	6	388	18	23	377	47	131	51	49	17	47		14		8			12	
<i>N</i>	5	6	5	6	6	3	6	8	1	5	6	6		6		5			4	
WY 03	24	3	420	56	14	270	38	107	125	20	19	34	14	15	14	9	34	260	24	34
<i>N</i>	2	2	3	7	7	1	7	7	2	3	5	5	5	2	4	2	5	4	2	5
WY 04			480	20	30	540	130	132	83	48	17	59	21		19		49	326		95
<i>N</i>			5	4	4	1	5	5	2	4	4	4	4		4		5	5		5

Table 4a. Continued.

<u>South Broward Drainage District</u>	C110.0TS1	C1100.8TS	C1101.0TS	C1101.3TS	C1102.0TS	C1102.1TS	C1102.8TS	C1103.3TS	C1103.5TS	C1104.3TS	C1104.6TS	C1104.9TS	C111.3TS1	C112.0TS1	C112.0TS2	C112.8TS1	C112.8TS2	C113.3TS1	C114.3TS1	C114.9TS1
WY 05			269	21	16		61	78		34	24		15		11		82	213		16
<i>N</i>			7	7	7		7	7		7	4		7		7		7	7		1
WY 06			179	21	19		40	86		24	20		14		15		67	174		46
<i>N</i>			5	5	5		5	5		5	3		5		5		5	5		3
WY 07			132	33	16	660	101	88		28	25	120	19		18		32	304		64
<i>N</i>			2	2	2	2	2	2		2	1	1	2		2		2	2		2
WY 08					10	100	78	68		24	12		16		10		38	165		72
<i>N</i>					4	3	4	4		4	2		2		4		4	4		2

Table 4b. Central Broward Water Control District (CBWCD) upstream monitoring sites: summary of TP data (ppb).

<u>Central Broward Water Control District</u>	C1105.40TN	C1106.30TN	C1106.3TN1	C1107.50TN	C1107.50TS	C1108.50TN	C1108.50TS	C1109.00TN	C1109.00TS	C1109.0TN1	C1109.30TS	C1109.60TN	C1110.10TN	C1110.60TS
03/21/2000		46		29							15		24	23
03/28/2000	18				25	24	29	23	26			16		
07/27/2000	35	94		113		48		59				28	25	42
07/28/2000					17		28		195		16			
10/04/2000	59	151		94		164		312	94					172
03/20/2001		99		38									11	
05/04/2001	16	78		92	12	35	16	66	15			98	16	17
05/24/2001		101						89				27	23	
05/25/2001	16			35	12	54	18		28		14			18
06/29/2001	12	84		18	21	41	11		22		8	17	19	14
07/11/2001	24	93		30	14	57	28		59		17	21	14	17
08/03/2001	22	83		61	17	81	120	22	23		20	39	42	17
09/07/2001	5	16		9	2		11	11	7		6	2	2	2
10/23/2001	42	75		41	15	54	9	120	8		87	53	29	37
05/20/2002	11	40		21	4	27	20	19	23		13	4	8	22
07/19/2002	2	44		13	6	6	15	16	6		5	13	43	23
08/27/2002	19	13		32	14		22	22	19		12	20	19	9
09/13/2002	18	28		19	17		24	24	19		12	22	19	28
12/10/2002	13	52		13	8	23	13	18	9		44	16	10	13
03/28/2003	9	37	13	14		14	14	18	12	28		16	13	11
05/23/2003	15	69	50	34		27	18	27	25	56		29	11	15
08/21/2003	16	79	23	30		52	18	62		65		43	22	21
09/30/2003	10	71	16	15		23	7	30	65	30		17	25	31
11/07/2003	8	85	19	20		56	14	18				24	13	43
05/04/2004		90	29	20		33	24	26	29	64		20	24	
07/20/2004	29	23	120	57		42	50	47	63	32		42	34	30
05/05/2005	31	68	27	12		14	13	22	29	42		15	14	14

Table 4b. Continued.

Central Broward Water Control District	C1105.40TN	C1106.30TN	C1106.3TN1	C1107.50TN	C1107.50TS	C1108.50TN	C1108.50TS	C1109.00TN	C1109.00TS	C1109.0TN1	C1109.30TS	C1109.60TN	C1110.10TN	C1110.60TS
06/17/2005	13	20	36	16		21	16	23	22	24		17	14	44
08/09/2005	13	100	42	23		28	20	87	36	72		28	40	20
09/29/2006	22	56	40	29		16	19	30	17	44		36	35	18
02/14/2008	21		59	57		25		28	7	73		13	1	23
Average	19	66	39	35	13	40	23	49	34	48	21	26	20	28
<i>N</i>	26	27	12	28	14	24	25	25	25	11	13	26	27	26
Water Years(May 1 to April 30)														
<i>N: number of sample for WY</i>														
WY 00	18	46		29	25	24	29	23	26		15	16	24	23
<i>N</i>	1	1		1	1	1	1	1	1		1	1	1	1
WY 01	47	115		82	17	106	28	186	145		16	28	18	107
<i>N</i>	2	3		3	1	2	1	2	2		1	1	2	2
WY 02	20	76		41	13	54	30	62	23		25	37	21	17
<i>N</i>	7	7		7	7	6	7	5	7		6	7	7	7
WY 03	12	36	13	19	10	17	18	20	15	28	17	15	19	18
<i>N</i>	6	6	1	6	5	4	6	6	6	1	5	6	6	6
WY 04	12	76	27	25		40	14	34	45	50		28	18	28
<i>N</i>	4	4	4	4		4	4	4	2	3		4	4	4
WY 05	29	57	75	39		38	37	37	46	48		31	29	30
<i>N</i>	1	2	2	2		2	2	2	2	2		2	2	1
WY 06	19	63	35	17		21	16	44	29	46		20	23	26
<i>N</i>	3	3	3	3		3	3	3	3	3		3	3	3
WY 07	22	56	40	29		16	19	30	17	44		36	35	18
<i>N</i>	1	1	1	1		1	1	1	1	1		1	1	1
WY 08	21		59	57		25		28	7	73		13	1	23
<i>N</i>	1		1	1		1		1	1	1		1	1	1

Table 4c. Indian Trace Development District (ITDD) upstream monitoring sites: summary of TP data (ppb).

<u>Indian Trace Drainage District</u>	C1101.0TN	C1101.5TN	C1102.1TN	C1102.7TN	C1104.3TN	C111.7TN1
10/04/2000			53	29	23	
05/24/2001				21	21	
08/02/2001	25	9	21	26	15	
09/14/2001	20	12	16	18	13	11
10/23/2001	14	8	19	21	14	9
02/12/2002	7	7	8	14	11	7
05/20/2002	11	12	14	21	18	11
08/05/2002	6	8	57	31	14	9
09/12/2002			28	19	17	
10/16/2002			35	21		
11/18/2002	8	9	31	41	16	12
03/17/2003			15	13	18	
03/19/2003	7	7	16	18	14	11
04/28/2003			21	18	12	
05/23/2003	9	7	27	25	16	10
06/10/2003			58	39	15	
08/14/2003	6	7	23	19	12	11
08/21/2003	8	7	16	14	9	15
09/26/2003			6	14	5	
09/29/2003	37	16	36	26	15	8
11/06/2003	30	9	21	15	14	9
02/02/2004	13	8	20	13	14	11
04/13/2004			15		21	
04/14/2004	14	12	21	14	13	9
07/20/2004			18	13	27	
08/02/2004	12	7	15	50	16	9
06/17/2005			27	41	9	
07/13/2006			32	23	14	
09/08/2006			15	20	15	
Average	14	9	24	23	15	10
<i>N</i>	16	16	28	28	28	15
Water Years(May 1 to April 30)						
<i>N: number of samples for WY</i>						
WY 01			53	29	23	
<i>N</i>			1	1	1	
WY 02	17	9	16	20	15	9
<i>N</i>	4	4	4	5	5	3
WY 03	8	9	27	23	16	11
<i>N</i>	4	4	8	8	7	4

Table 4c. Continued.

<u>Indian Trace Drainage District</u>	C1101.0TN	C1101.5TN	C1102.1TN	C1102.7TN	C1104.3TN	C111.7TN1
WY 04	17	9	24	20	13	10
<i>N</i>	7	7	10	9	10	7
WY 05	12	7	17	32	22	9
<i>N</i>	1	1	2	2	2	1
WY 06			27	41	9	
<i>N</i>			1	1	1	
WY 07			24	22	15	
<i>N</i>			2	2	2	

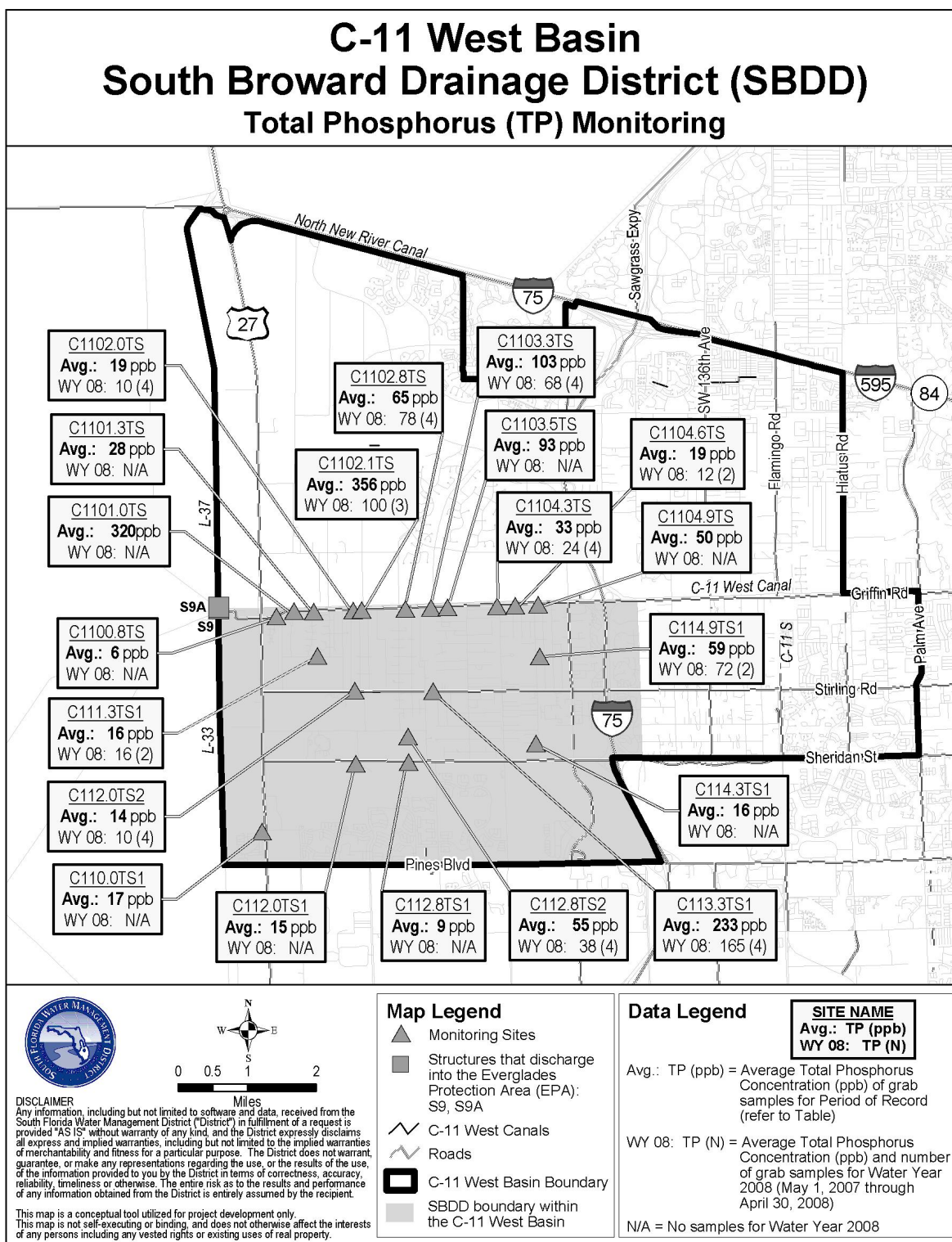


Figure 10. SBDD upstream monitoring sites: summary of TP data (ppb).

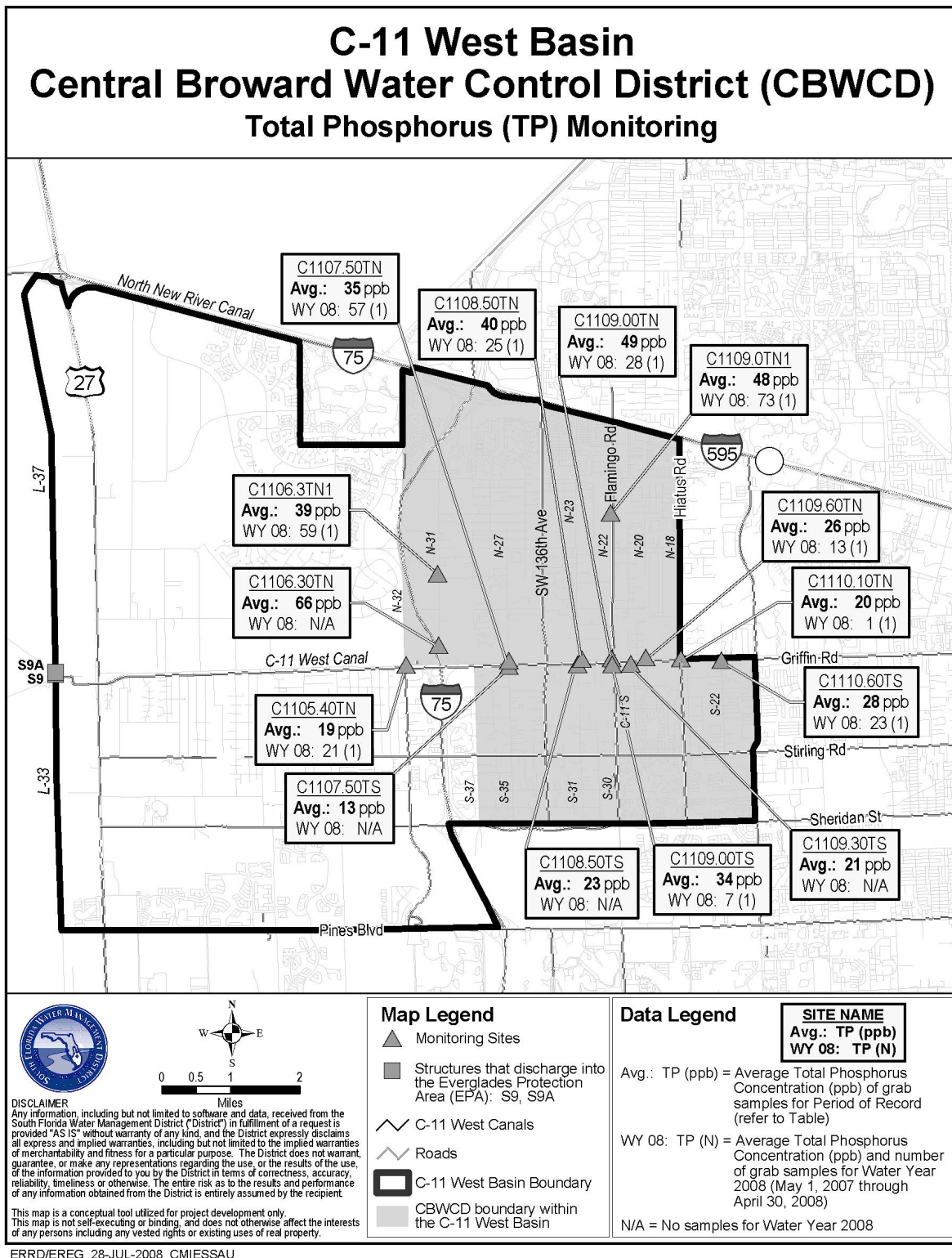


Figure 11. CBWCD upstream monitoring sites: summary of TP data (ppb).

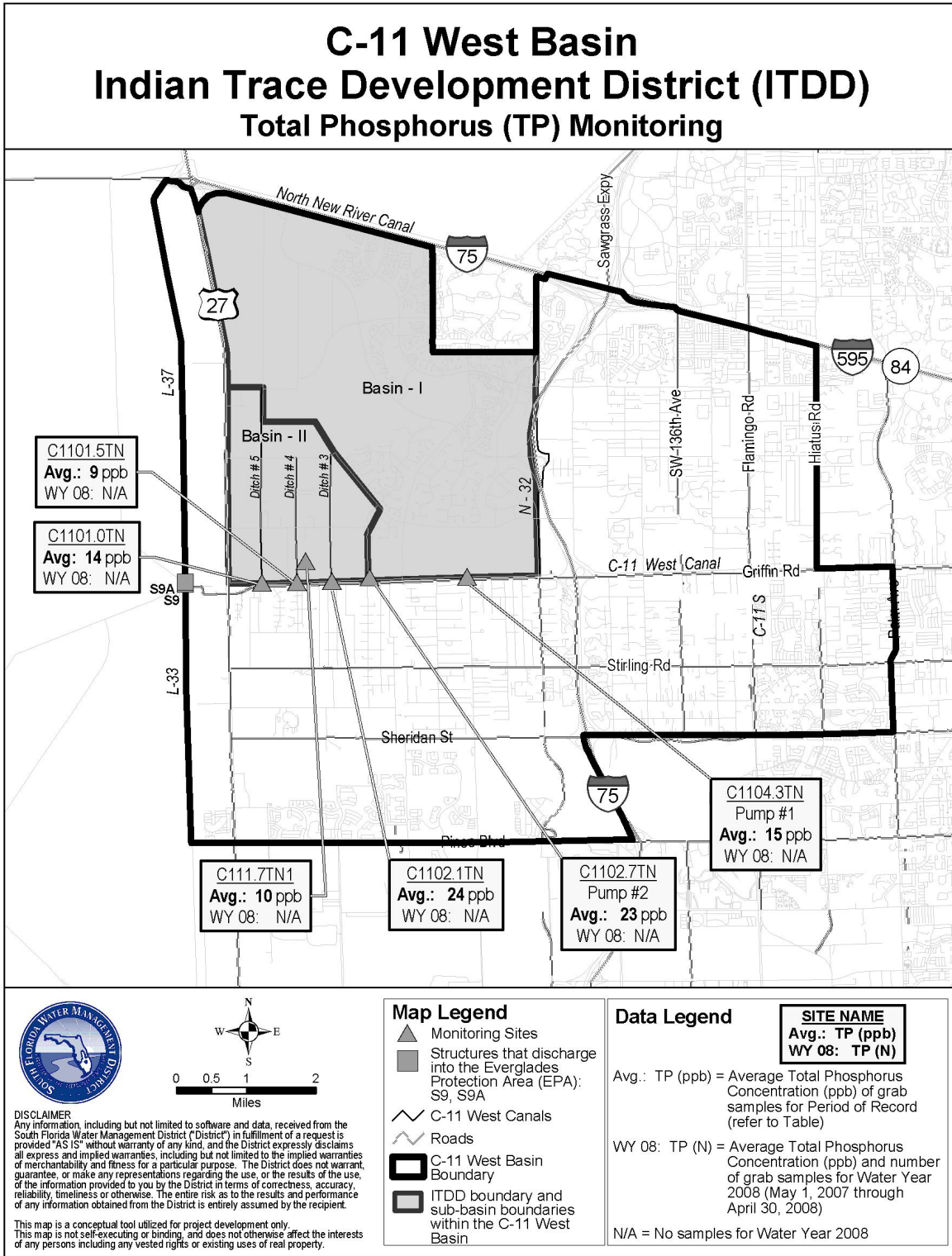


Figure 12. ITDD upstream monitoring sites: summary of TP data (ppb).

Table 5. NNRC basin upstream monitoring sites: summary of TP data (ppb).

<u>North New River Canal</u>	NNRCPLA1	NNRCSUN1	NNRLMCC1	NNROPLA2	NNROPLA3	NNROPLF1	NNROUTF2	NNROUTF4	NNRPACR1	NNRPACR2	NNRPACR3	NNRPACR4	NNRPACR5	NNRPACR6	NNRPACRA	NNRPARK1	NNRWLAU1	NNRWLAU2
05/24/2001		103	75			18									30	15		
07/24/2001	130	27	43			34									18	14		
08/02/2001	25			59	48				62						25		24	54
09/13/2001		27	47	58	50	66		29	76						45	10	18	64
10/22/2001		40					74	59							31	13	24	81
03/08/2002		19				18	17								45	16		
06/24/2002		32	100	80	43	52		38								16		
06/25/2002				51	93	32												
07/02/2002									64	28		46	25	17				
08/21/2002	17					22	15		34						36	7		
09/04/2002									35	24	22	21	28	40				
09/12/2002	20	23						23							23	6	23	59
10/16/2002																		40
12/10/2002																	19	64
02/20/2003									66	18		15	13	220				
03/17/2003		29					79	34							37		24	32
04/28/2003																	17	36
05/23/2003																	27	76
05/28/2003	28	38	94	109	43	35	82	48	160						82		31	77
06/17/2003																	17	19
08/21/2003	26	24				34									34	9	17	7
09/26/2003																	5	16
11/06/2003																	27	8
02/02/2004	21	21	116			28	29	37								21	25	
04/14/2004	17	21				14		22								18		
07/20/2004																	25	60
08/03/2004		32	137	45				48	153						78	13	27	69

Table 5. Continued.

<u>North New River Canal</u>	NNRCPLA1	NNRCSUN1	NNRLMCC1	NNROPLA2	NNROPLA3	NNROPLF1	NNROUTF2	NNROUTF4	NNRPACR1	NNRPACR2	NNRPACR3	NNRPACR4	NNRPACR5	NNRPACR6	NNRPACRA	NNRPARK1	NNRWLAU1	NNRWLAU2
04/08/2005									17	8				24				
05/05/2005									110	22	29	46	98	29				
06/10/2005	30	22	33				32	73							35		12	31
06/17/2005									72	36	39	24	48	79				
06/24/2005																		
08/26/2005	32	26	25				20	62							76			
09/21/2005	35	24	41				21	33							38			
10/04/2005									23	12	21	20	22	44				
10/06/2005	29	20	34				26	44							20			
07/13/2006																	26	68
09/06/2006	15	18	32				25	25							27		35	43
09/08/2006																		
06/05/2007	17	43	24				19	17							15			
09/27/2007	19	18	34				26	15							38			
02/14/2008	18	23	36				20	21							57			
Average	30	30	58	67	55	32	35	37	73	21	28	29	39	65	40	13	22	48
<i>N</i>	16	21	15	6	5	11	14	17	12	7	4	6	6	7	20	12	19	19
Water Years(May 1 to April 30)																		
<i>N: number of sample for WY</i>																		
WY 02	78	43	55	59	49	34	46	44	69						32	14	22	66
<i>N</i>	2	5	3	2	2	4	2	2	2						6	5	3	3
WY 03	19	28	100	66	68	35	47	32	50	23	22	27	22	92	32	10	21	46
<i>N</i>	2	3	1	2	2	3	2	3	4	3	1	3	3	3	3	3	4	5
WY 04	23	26	105	109	43	28	56	36	160						58	16	21	34
<i>N</i>	4	4	2	1	1	4	2	3	1						2	3	7	6
WY 05		32	137	45				48	85	8				24	78	13	26	65

Table 5. Continued.

<u>North New River Canal</u>	NNRCPLA1	NNRCSUN1	NNRLMCC1	NNROPLA2	NNROPLA3	NNROPLF1	NNROUTF2	NNROUTF4	NNRPACR1	NNRPACR2	NNRPACR3	NNRPACR4	NNRPACR5	NNRPACR6	NNRPACRA	NNRPARK1	NNRWLAU1	NNRWLAU2
<i>N</i>		1	1	1				1	2	1				1	1	1	2	2
WY 06	32	23	33				25	53	68	23	30	30	56	51	42		12	31
<i>N</i>	4	4	4				4	4	3	3	3	3	3	3	4		1	1
WY 07	15	18	32				25	25							27		31	56
<i>N</i>	1	1	1				1	1							1		2	2
WY 08	18	28	31				22	18							37			
<i>N</i>	3	3	3				3	3							3			

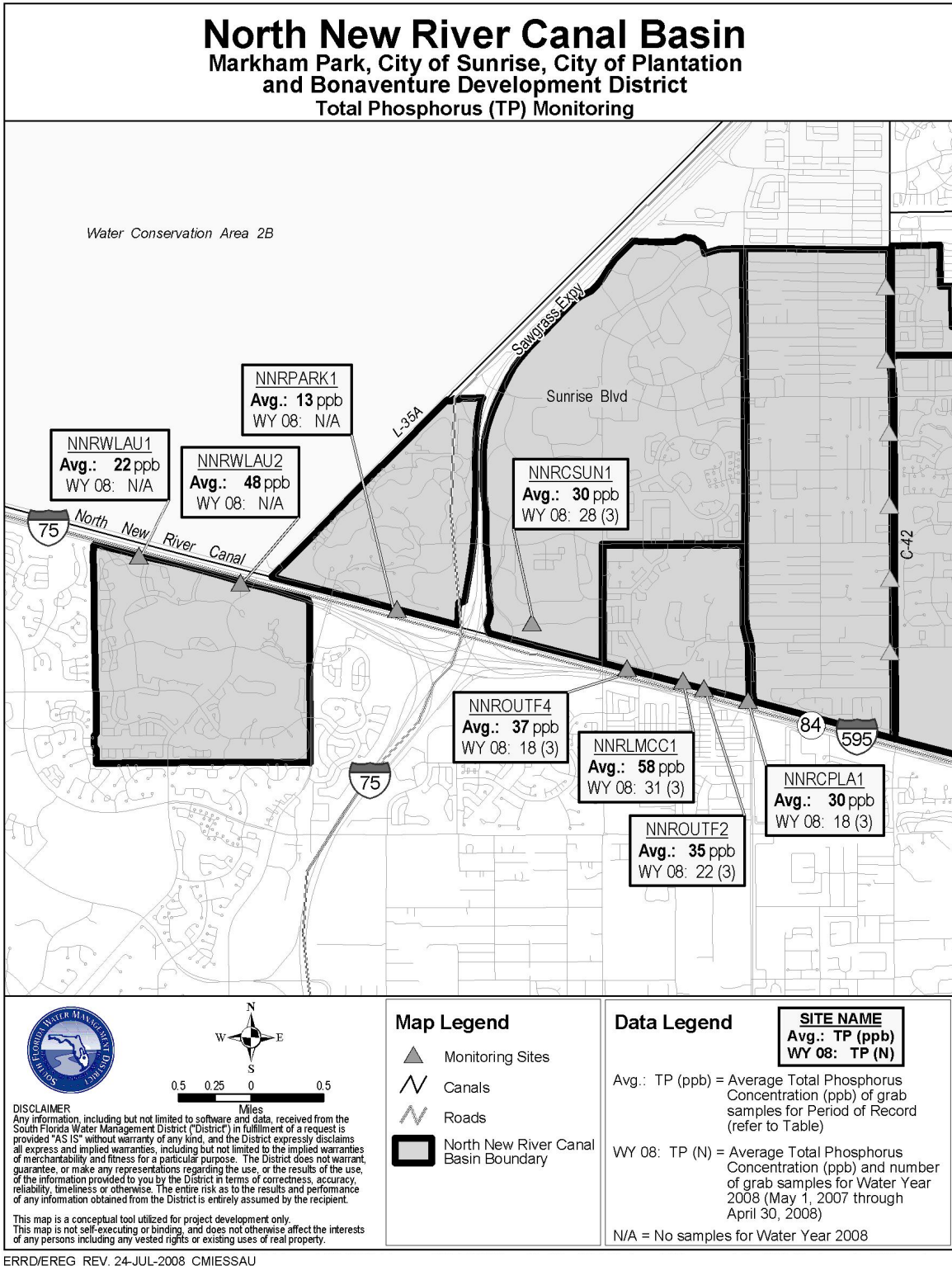


Figure 13a. NNRC basin (west) upstream monitoring sites: summary of TP data (ppb).

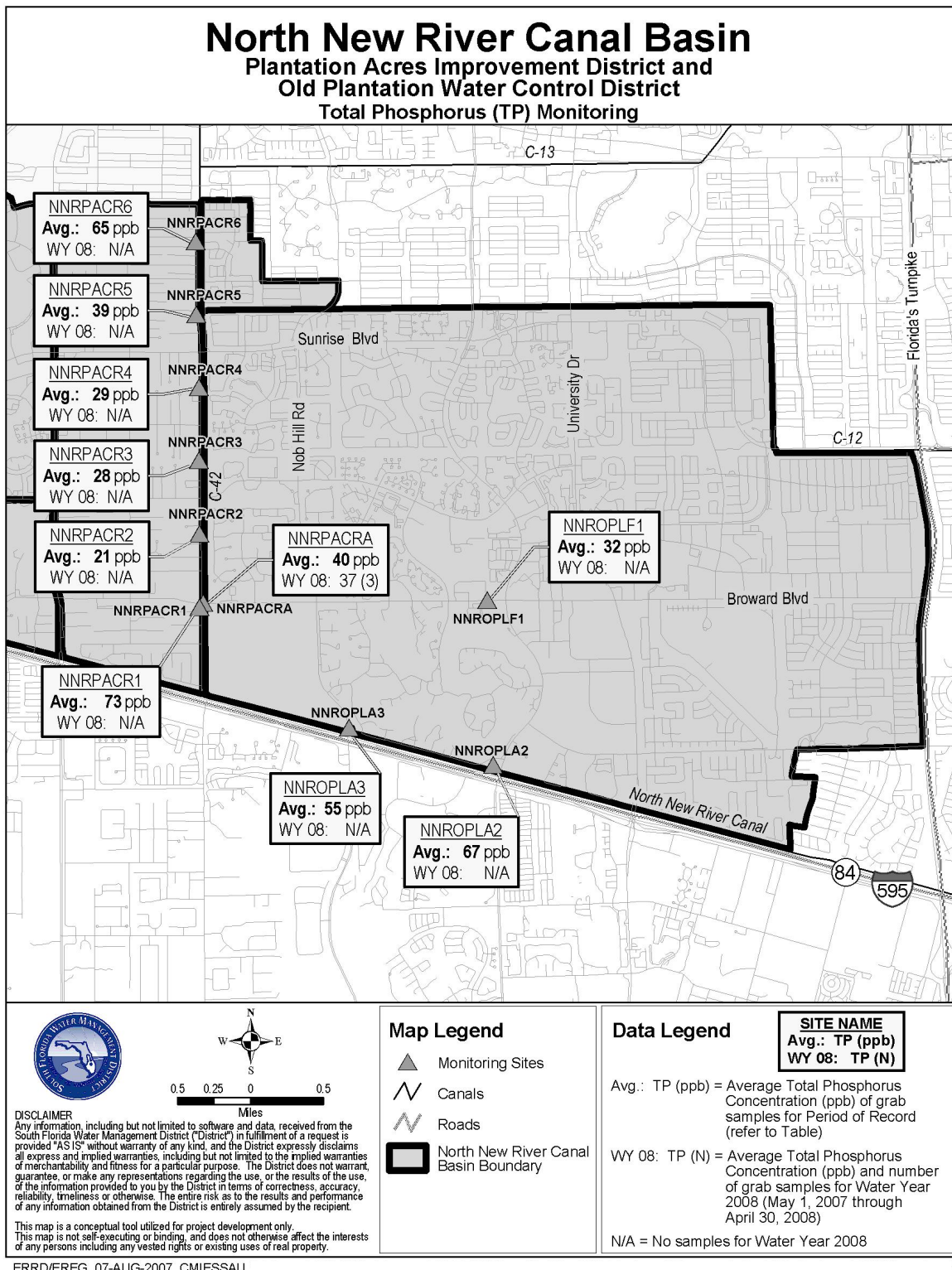


Figure 13b. NNRC basin (east) upstream monitoring sites: summary of TP data (ppb).

Table 6. Feeder Canal basin upstream monitoring sites: summary of TP data (ppb).
 Note: Synoptic survey data available in the 2006 SFER – Volume I, Appendix 3-2f.

<u>West Feeder Canal</u>	LC01.7TN	LC02.9TN	LC02.9TW	LC02.9TW01	LC03.0TN	LC03.0TN01	LC03.0TN03	WC01.11TN
08/13/2003		105					115	
09/03/2003		34					262	
09/18/2003		23		17			367	
10/02/2003				21			275	
10/23/2003				25				
09/29/2005	41		34	37	65	99		25
10/05/2005				38		188		
10/12/2005				33		293		
10/19/2005	74		28	27	169	167		
11/09/2005			41	33	181	205		
04/05/2006	39		293	40	27	47		
04/12/2006	23			51		40		21
04/19/2006	27			111	25	66		23
04/26/2006	41			91	32	102		24
05/03/2006	31			94	22	39		25
05/10/2006	34				31	72		29
05/17/2006	29				44	139		30
05/24/2006	42				45	112		28
05/31/2006	36				46	62		24
06/07/2006	40				44	66		27
06/14/2006	40				44	73		21
06/21/2006	36				51	70		20
06/28/2006	32				41	38		24
07/05/2006	22			168	43	43		23
07/12/2006	31		45	124	45	31		84
07/19/2006	53		75	60	35	37		19
07/26/2006			41	58		44		59
08/02/2006	28		28			32		22
08/09/2006	24		22			26		19
08/16/2006			31			21		
08/23/2006			245	56	124	267		21
09/06/2006			197	61	481	551		34
09/13/2006			103	51	200	238		69
09/20/2006			61	39	141	173		42
09/27/2006			55	38	193			29
10/04/2006			32	40	110	116		25
10/25/2006	61		54	40	80	457		28
04/04/2007	47				114	82		
04/11/2007	47				74	83		22
04/18/2007	44				35	42		19
04/25/2007	49				56	71		20

Table 6. Continued.

<u>West Feeder Canal</u>	LC01.7TN	LC02.9TN	LC02.9TW	LC02.9TW01	LC03.0TN	LC03.0TN01	LC03.0TN03	WC01.11TN
05/02/2007	51				45			22
05/09/2007	48				48	61		26
05/16/2007	53				57	143		31
05/23/2007	55				59	73		
05/30/2007	46				47	81		37
06/06/2007	41				142	108		39
06/13/2007	41				88	82		25
06/20/2007	32			41	46	55		21
06/27/2007	45				82	45		22
07/05/2007	35				67	42		26
07/11/2007	29				80	38		19
07/18/2007	33		164	131	69	26		24
07/25/2007	28		101	41	81	18		17
08/01/2007	28		102	24	86	19		12
08/08/2007	26		72	35	89	16		14
08/15/2007	25		85	20	50	45		18
08/22/2007	34		22	21	68	14		20
08/29/2007	32		22	26	61	12		17
09/05/2007	26		25	32	52	12		19
09/12/2007	27		22	28	47			20
09/19/2007	29		23	19	34	81		20
09/26/2007	56		32	24	159	229		20
10/03/2007	54		22	23	128	382		18
10/10/2007	164		27	21	219	270		17
10/17/2007	37		18	17	79	157		19
10/24/2007	44		17	16	88	145		25
10/31/2007	35		18	14	64	139		17
04/02/2008	24		20	11	98	34		9
04/09/2008	43		14	10	36	41		12
04/16/2008	36		23	9	22	15		10
04/23/2008	25		21	10	25	27		13
Average	40	54	60	43	82	103	255	25
<i>N</i>	56	3	37	45	60	64	4	59
Water Years(May 1 to April 30)								
<i>N: number of sample for WY</i>								
WY 04		54		21			255	
<i>N</i>		3		3			4	
WY 06	41		99	51	83	134		23
<i>N</i>	6		4	9	6	9		4
WY 07	38		76	69	91	115		31

Table 6. Continued.

<u>West Feeder Canal</u>	LC01.7TN	LC02.9TN	LC02.9TW	LC02.9TW01	LC03.0TN	LC03.0TN01	LC03.0TN03	WC01.11TN
<i>N</i>	19		13	12	23	26		25
WY 08	41		43	27	75	83		20
<i>N</i>	31		20	21	31	29		30

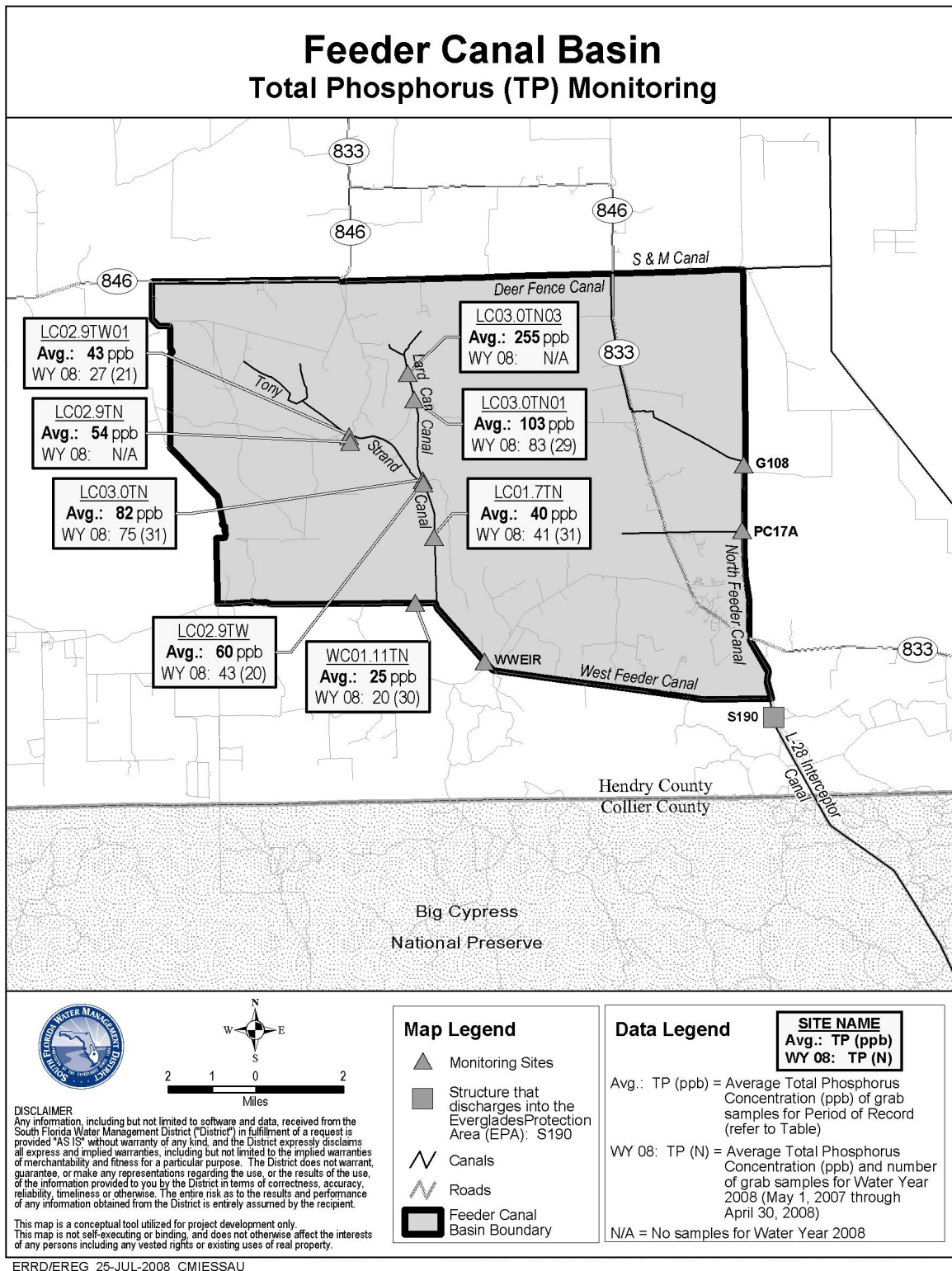


Figure 14a. Feeder Canal basin upstream monitoring sites: summary of TP data (ppb).
Note: Synoptic survey data available in the 2006 SFER – Volume I, Appendix 3-2f.

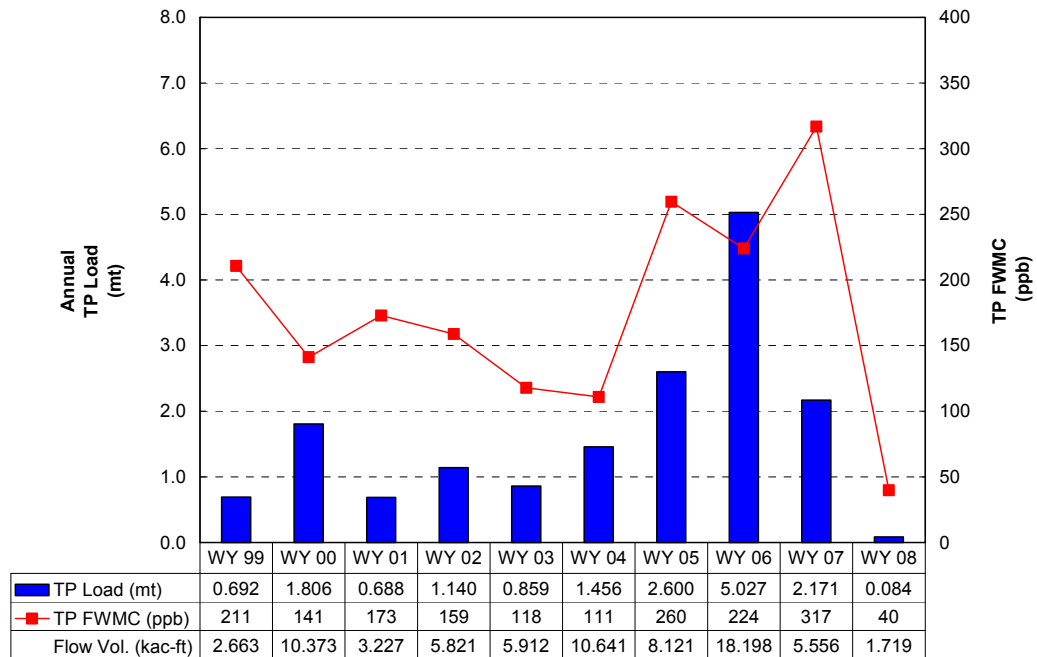


Figure 14b. Upstream structure PC-17A (Feeder Canal Basin) WY1999 through WY2008 - TP load, TP FWMC, and flow volume.

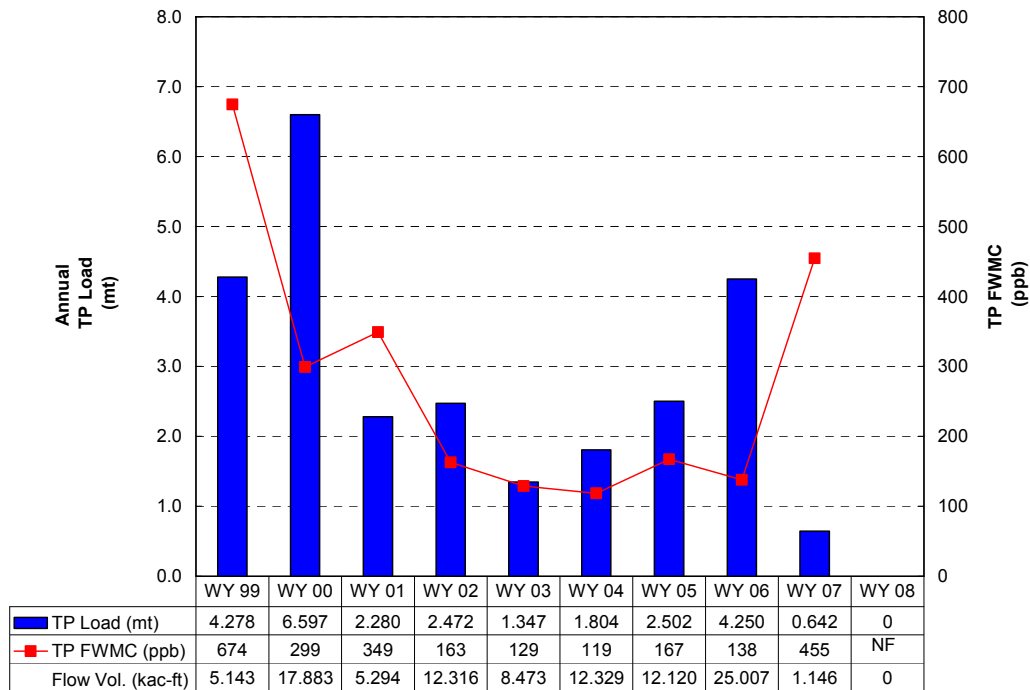


Figure 14c. Upstream structure G-108 (Feeder Canal Basin) WY1999 through WY2008 - TP load, TP FWMC, and flow volume (NF = no flow for period).

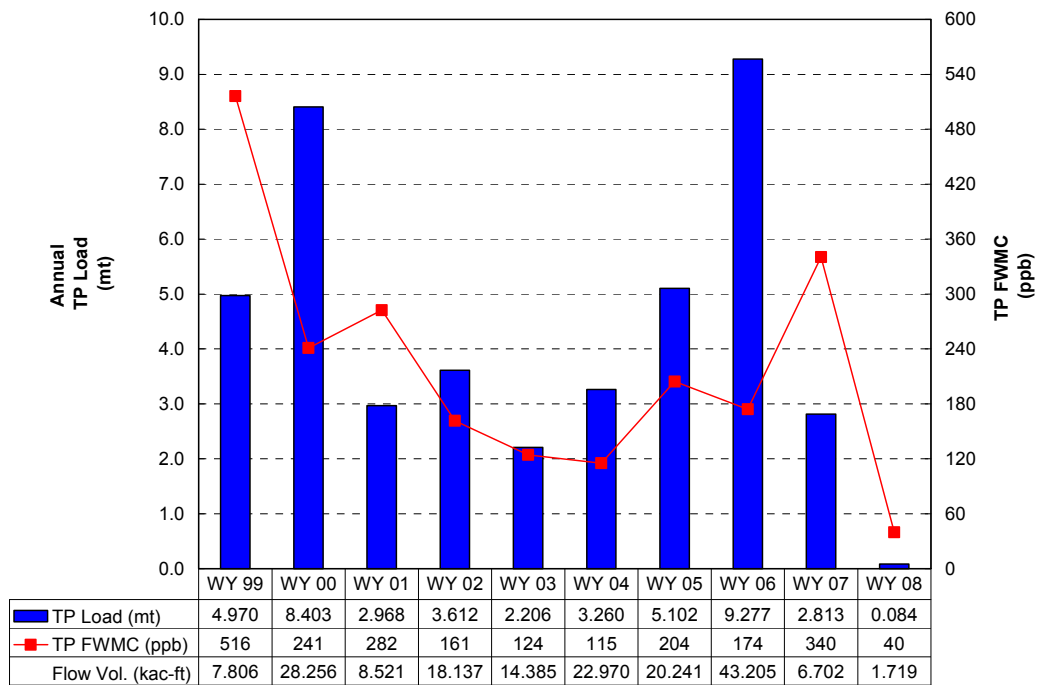


Figure 14d. Upstream combined structures PC-17A and G-108 (Feeder Canal Basin) WY1999 through WY2008 - TP Load, TP FWMC, and flow volume.

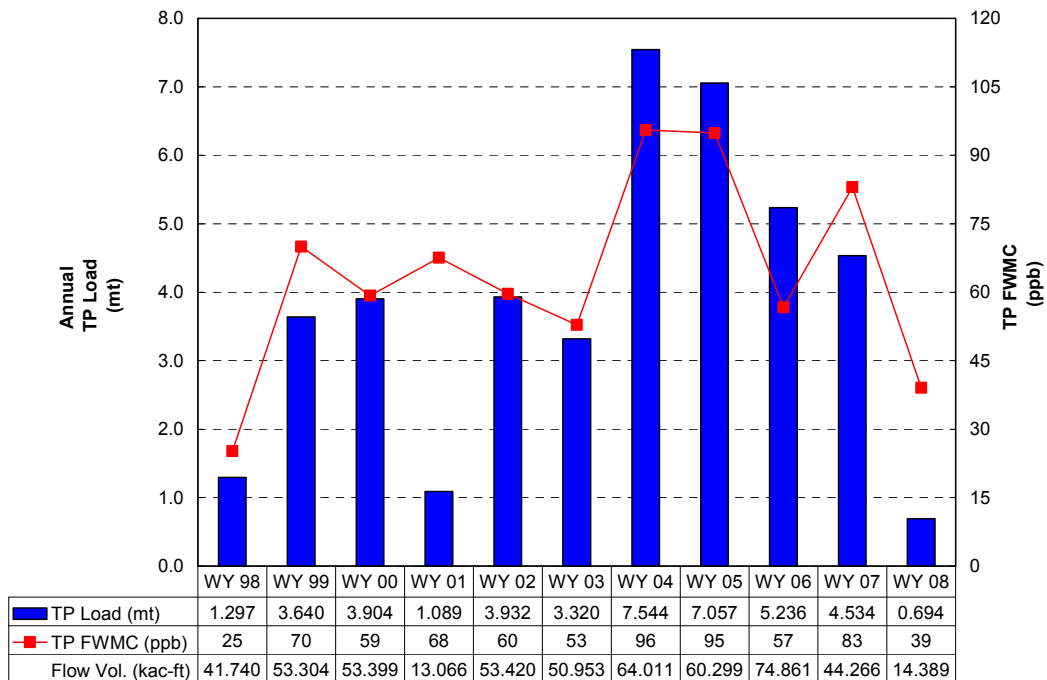


Figure 14e. Upstream dtructures WWEIR (Feeder Canal Basin) WY1998 through WY2008 - TP Load, TP FWMC, and flow volume.

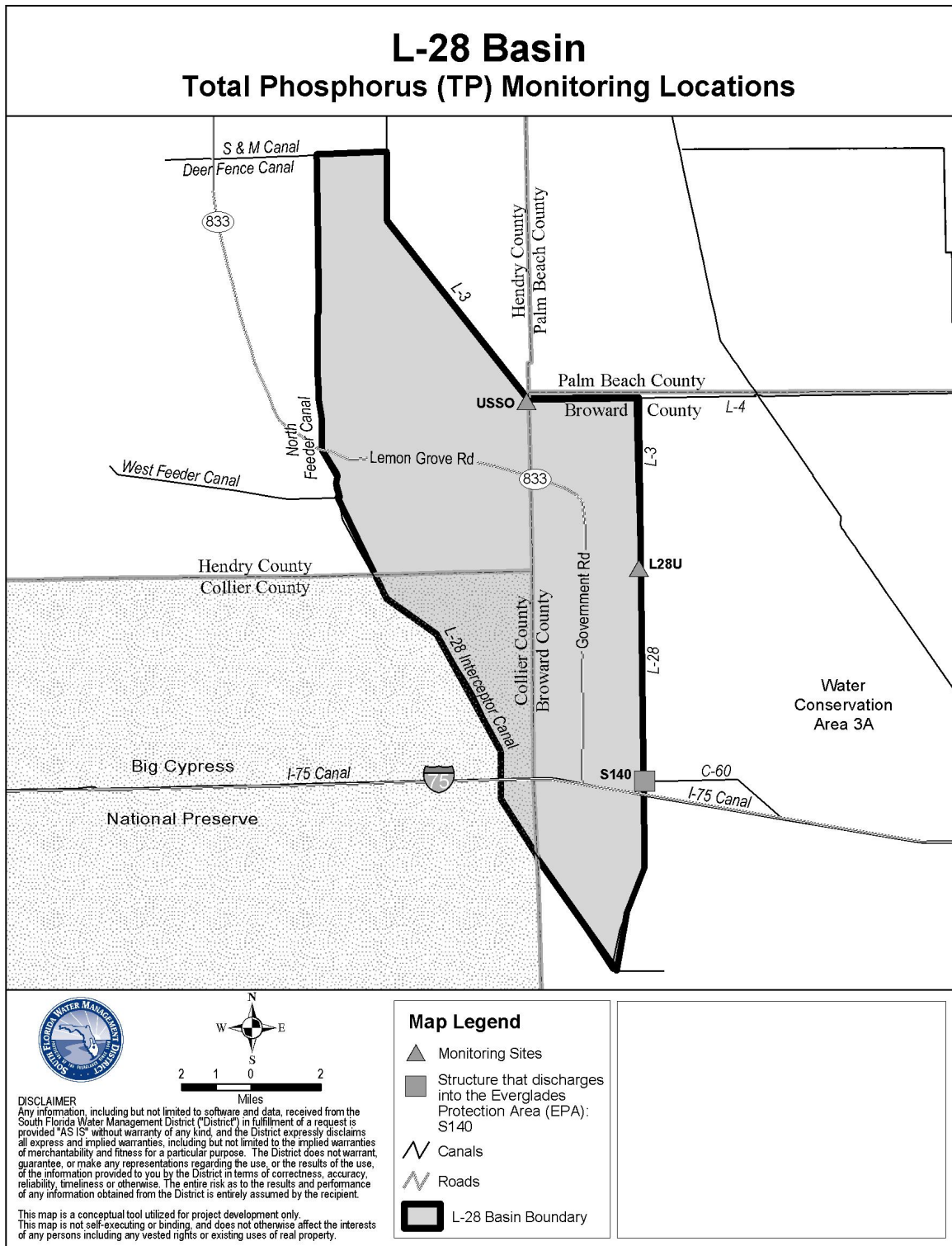


Figure 15a. L-28 basin upstream monitoring sites: location map.

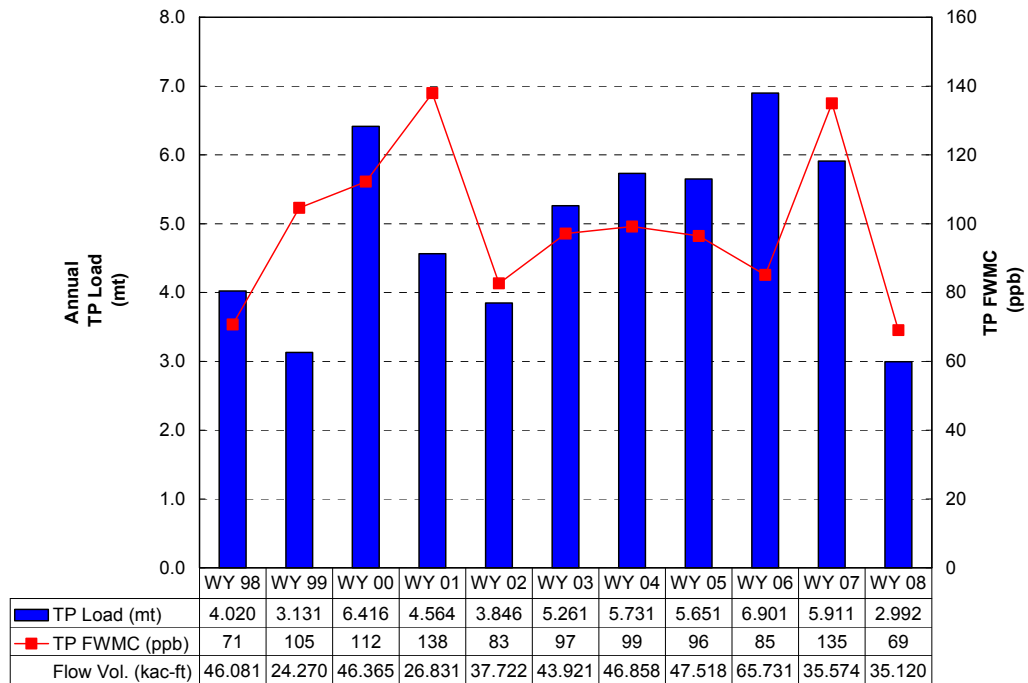


Figure 15b. Upstream structures USSO (L-28 basin)
WY1998 through WY2008 - TP load, TP FWMC, and flow volume.

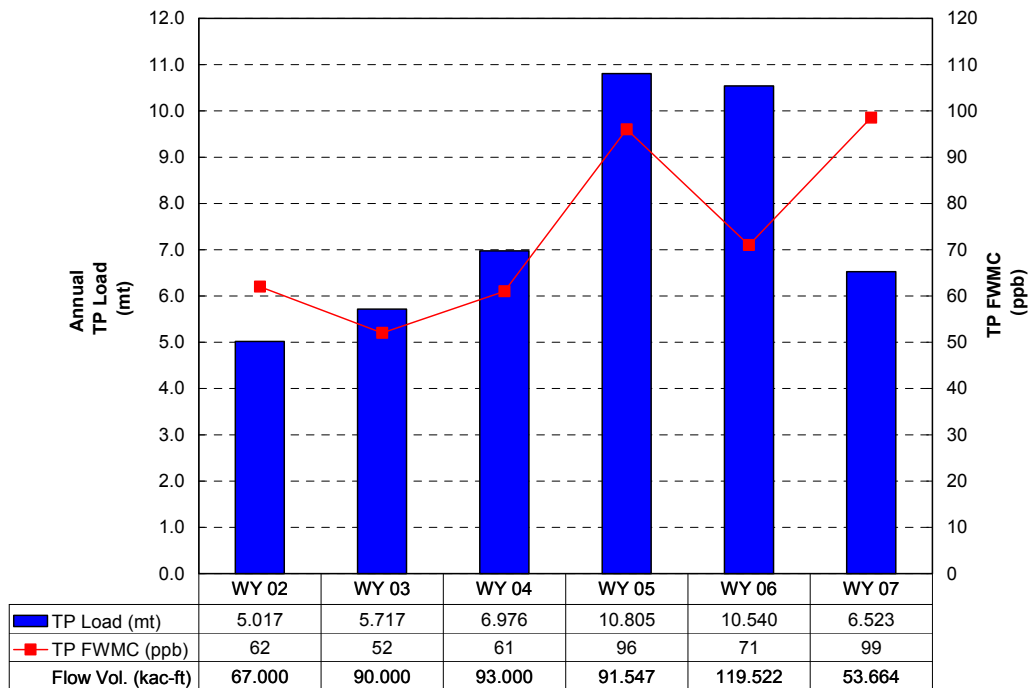


Figure 15c. Upstream structures L-28U (L-28 basin) WY2002 through
WY2007 - TP load, TP FWMC, and flow volume.

Table 8. Boynton Farms Basin upstream monitoring sites: summary of TP data (ppb).

Boynton Farms	BFBAFCP	BFBAFNP	BFBAFSP	BFBDFCP	BFBDFNP	BFBDFSP	BFBDFWP	BFBMFCP	BFBMFNP	BFBMFSP	BFBWNCP
04/26/2000		1651	1013								252
05/11/2000		1073	381								398
09/18/2000		389	710								294
10/05/2000											344
11/28/2000											303
03/21/2001	1045	1144	690								270
09/17/2001	1372		1901		1171	807	1476			1749	339
10/22/2001	2926	1624	1723								357
11/06/2001											287
02/11/2002			822	1115				1086	1419		254
09/09/2002								1336	1428		
12/09/2002			1273					1289			
12/10/2002	2595		1591					1760			
03/17/2003		754	581	1114		928		579	720		
04/28/2003		483	827								
05/23/2003	343	559	448	2193	1330	1173	965	957	355	798	
09/29/2003					1000						
11/06/2003	1160	1200						973	976	1140	
09/06/2006	1610	1650	1540	1340	1690	1290	1720			1610	
12/15/2006	1250	995	609	1435	1804	1303	1729			1345	
06/05/2007	129	209	135	1094	1302	819	858			1072	
09/27/2007	976	1150	597	2116	1531	2034	2024			1542	
Average	1341	991	928	1487	1404	1193	1462	1140	980	1322	310
<i>N</i>	<i>10</i>	<i>13</i>	<i>16</i>	<i>7</i>	<i>7</i>	<i>7</i>	<i>6</i>	<i>7</i>	<i>5</i>	<i>7</i>	<i>10</i>
Water Years(May 1 to April 30)											
<i>N: number of sample for WY</i>											
WY 00		1651	1013								252
<i>N</i>		<i>1</i>	<i>1</i>								<i>1</i>
WY 01	1045	869	594								322
<i>N</i>	<i>1</i>	<i>3</i>	<i>3</i>								<i>5</i>
WY 02	2149	1624	1482	1115	1171	807	1476	1086	1419	1749	309
<i>N</i>	<i>2</i>	<i>1</i>	<i>3</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>4</i>
WY 03	2595	619	1068	1114		928		1241	1074		
<i>N</i>	<i>1</i>	<i>2</i>	<i>4</i>	<i>1</i>		<i>1</i>		<i>4</i>	<i>2</i>		
WY 04	752	880	448	2193	1165	1173	965	965	666	969	
<i>N</i>	<i>2</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>2</i>	<i>2</i>	<i>2</i>	
WY 07	1430	1323	1075	1388	1747	1297	1725			1478	
<i>N</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>			<i>2</i>	
WY 08	553	680	366	1605	1417	1427	1441			1307	
<i>N</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>			<i>2</i>	

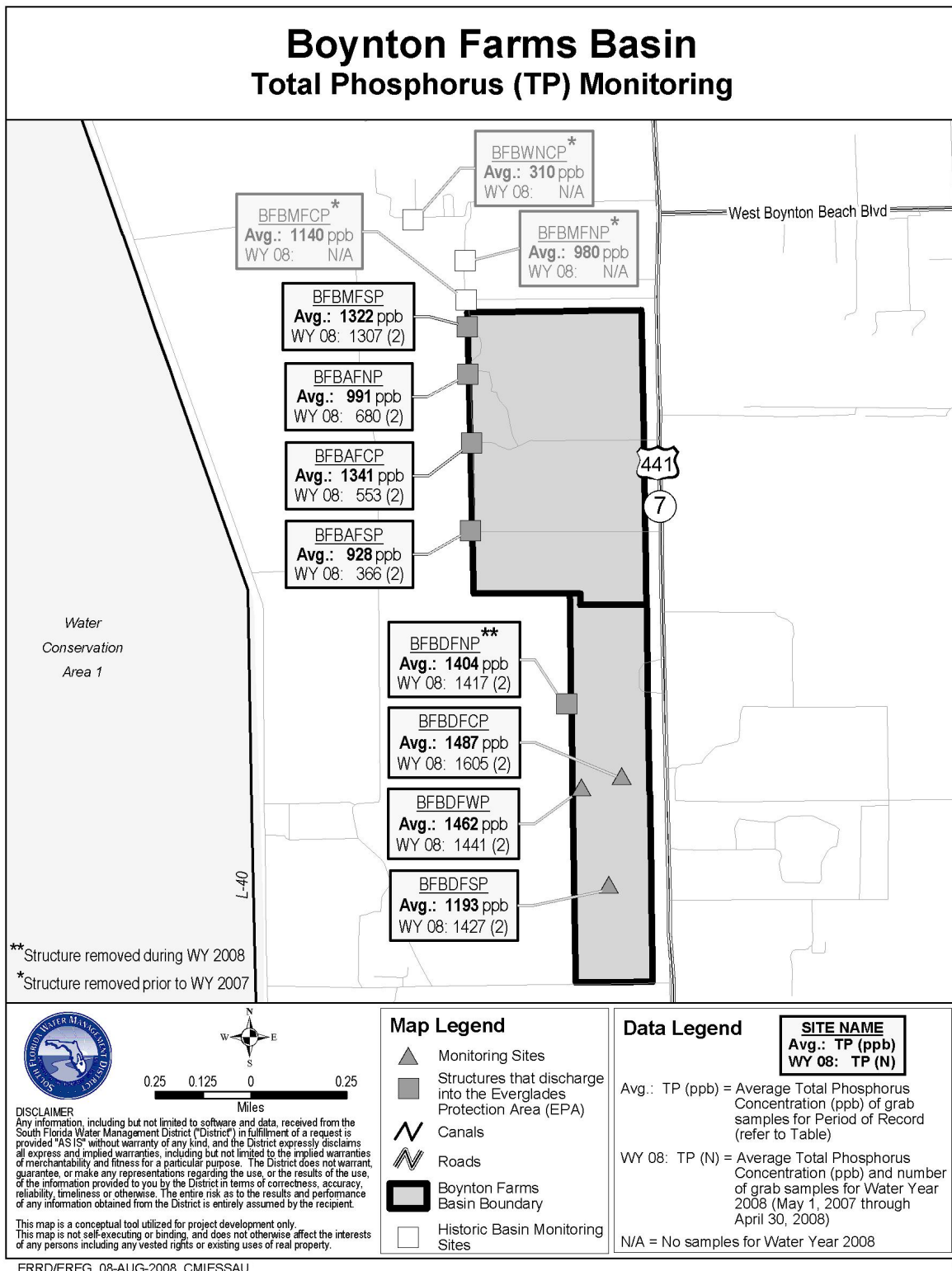


Figure 16. Boynton Farms basin monitoring sites: summary of TP data (ppb).

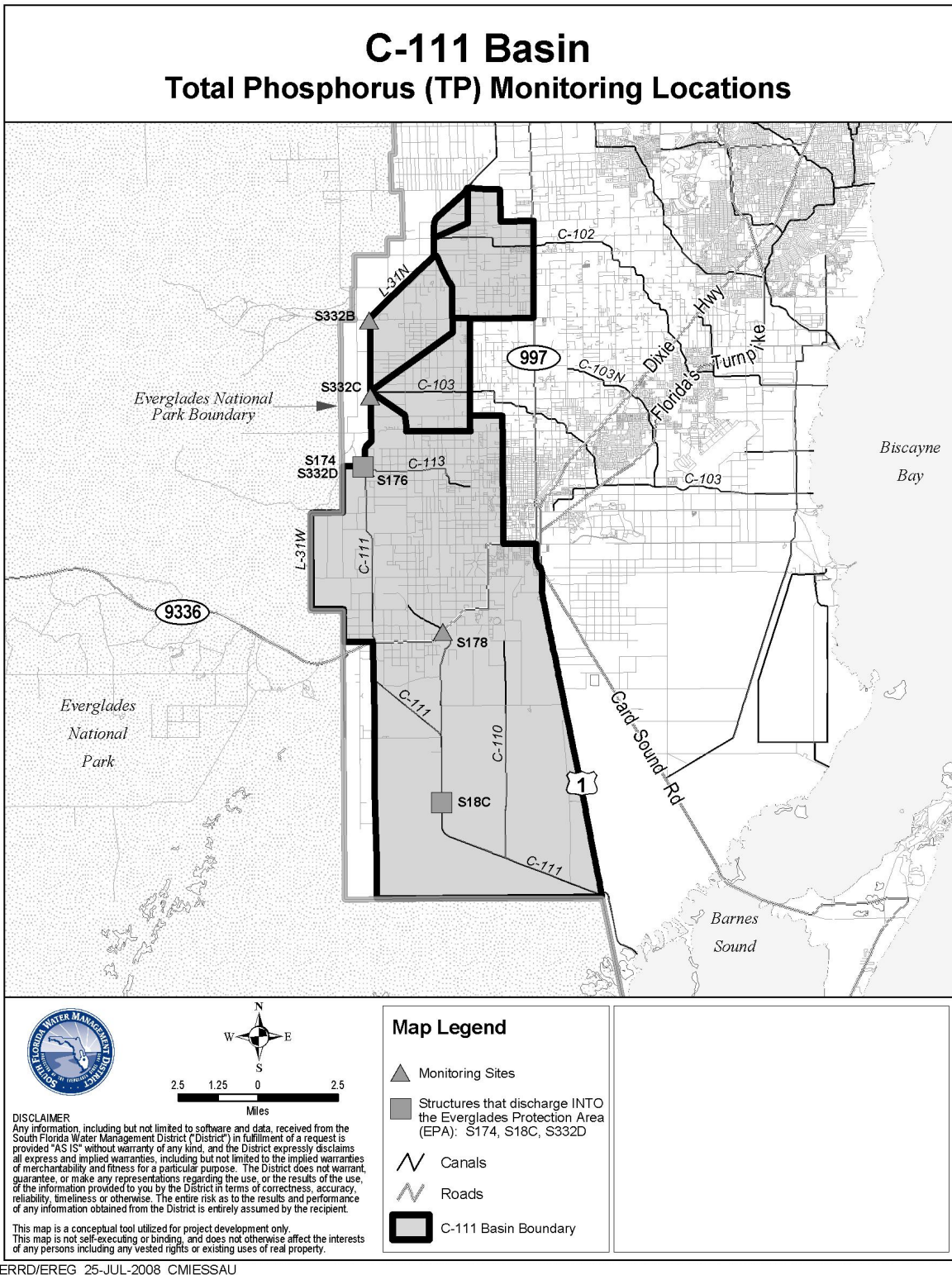


Figure 17. C-111 basin monitoring sites
(see Appendix 3A-4 of this volume for upstream data).