# Appendix B

# Total Phosphorus Water Quality Data for ESP Basins

## B.1. ACME Improvement District Basin

### Table B.1.a. Historic Summary of Total Phosphorus (ppb) at Into Structures

**Note**: Sampling locations changed from L40-1, L40-2 in WY98 to Acme1DS, G94D in WY99-WY00 and are currently VOW1, VOW2.

| Period of Record | L40-1 ACME1DS VOW1 arithmetic ave.(grabs) | L40-1 ACME1DS VOW1 flow-weighted mean conc. | L40-2 G94D VOW2 arithmetic ave.(grabs) | L40-2 G94D VOW2 flow-weighted mean conc. |
|---|---|---|---|---|
| Water Year 98 (May 97-April 98) Grab | 62 | 79 | 82 | 104 |
| Water Year 99 (May 98-April 99) Grab | 100 | 138 | 121 | 144 |
| Water Year 00 (May 99-April 00) Grab | 105 | 130 | 109 | 122 |
| Water Year 01 (May 00-April 01) Grab/Comp | 57 | 65 | 87 | 104 |
| Water Year 02 (May 01-April 02) Grab/Comp | 80 | 90 | 142 | 155 |
| Water Year 03 (May 02-April 03) Grab/Comp | 69 | 83 | 143 | 108 |
| Water Year 04 (May 03-April 04) Grab/Comp | 78 | 76 | 94 | 98 |

## Table B.1.b. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)

| ***Village of Wellington*** | VOW1 | VOW1A | VOW2 | VOW3 | VOW4 | VOWPS6 | VOW117 | VOW152 | VOW35 | VOW40 | VOW42 | VOW43 | VOW44 | VOW45 | VOW46 | VOW63P | VOW63R | VOW70 | VOW72 | VOW85 | VOWB2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/10/2000 | | | | 29 | | | | | | | | | | | | | | | | | |
| 7/11/2000 | 110 | | 110 | 39 | 48 | | | | 34 | | | | | | | | | | | 51 | |
| 7/25/2000 | 55 | | 130 | 42 | | | | | | | | | | | | | | | | 14 | |
| 8/1/2000 | 49 | | 68 | | | | | | | | | | | | | | | | | | |
| 8/3/2000 | 59 | | 62 | 46 | | | | | 36 | | | | | | | | | | | 49 | |
| 8/7/2000 | 34 | | 62 | | | | | | | | | | | | | | | | | | |
| 8/10/2000 | 42 | | 69 | | | | | | | | | | | | | | | | | | |
| 8/16/2000 | 34 | | 56 | 30 | | | | | 30 | | | | | | | | | | | 4 | |
| 8/17/2000 | 60 | | 74 | | | | | | | | | | | | | | | | | | |
| 8/24/2000 | 51 | | 88 | | | | | | | | | | | | | | | | | | |
| 8/25/2000 | 49 | | 120 | | | | | | | | | | | | | | | | | | |
| 8/31/2000 | 55 | | 95 | | | | | | | | | | | | | | | | | | |
| 9/15/2000 | 4 | | 14 | | | | | | | | | | | | | | | | | | |
| 9/19/2000 | | | 40 | 22 | 29 | | | | 15 | | | | | | | | | | | 4 | |
| 9/21/2000 | 63 | | 89 | | | | | | | | | | | | | | | | | | |
| 9/28/2000 | 54 | | 70 | 52 | 36 | | | | 43 | | | | | | | | | | | 52 | |
| 9/29/2000 | 51 | | 83 | 44 | 47 | | | | 63 | | | | | | | | | | | 28 | |
| 10/4/2000 | 78 | | 160 | | | | | | | | | | | | | | | | | | |
| 10/9/2000 | 100 | | 150 | 82 | 95 | | | | 80 | | | | | | | | 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 | | 110 | |
| 12/11/2000 | 46 | | 57 | 69 | 35 | | | | 62 | | | | | | | | | | | | |
| 12/14/2000 | 22 | | 30 | | | | | | | | | | | | | | | | | | |

## Table B.1.b. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb) - Continued

| ***Village of Wellington*** | VOW1 | VOW1A | VOW2 | VOW3 | VOW4 | VOWPS6 | VOW117 | VOW152 | VOW35 | VOW40 | VOW42 | VOW43 | VOW44 | VOW45 | VOW46 | VOW63P | VOW63R | VOW70 | VOW72 | VOW85 | VOWB2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/21/2000 | 23 | | 41 | | | | | | | | | | | | | | | | | | |
| 3/20/2001 | 170 | 40 | 380 | 24 | 4 | | 280 | 28 | 28 | 37 | 110 | 290 | 460 | 53 | | 300 | 370 | | 4 | 26 | |
| 3/21/2001 | | | | | | | | | | | | | | | 13 | | | 95 | | | |
| 3/22/2001 | 120 | | 27 | | | | | | | | | | | | | | | | | | |
| 3/29/2001 | 35 | | | | | | | | | | | | | | | | | | | | |
| 6/2/2001 | 140 | | 140 | 43 | | | | | 56 | | | | | | | | | | | 33 | |
| 6/8/2001 | 37 | | 120 | | | | | | | | | | | | | | | | | | |
| 6/13/2001 | 67 | | 240 | 43 | 68 | | | | 46 | | | | | | | | | | | 44 | |
| 6/22/2001 | 48 | | 120 | | | | | | | | | | | | | | | | | | |
| 7/9/2001 | 58 | | | | | | | | | | | | | | | | | | | | |
| 7/13/2001 | 58 | | 200 | 56 | 68 | | | | 75 | | | | | | | | | | | 65 | |
| 7/20/2001 | 240 | | 240 | | | | | | | | | | | | | | | | | | |
| 7/24/2001 | | | | | | | | | | | | | | | 56 | 490 | 330 | 210 | | | |
| 7/27/2001 | 97 | | 250 | 94 | 160 | | | | 140 | | | | | | | | | | | 100 | |
| 8/2/2001 | 82 | | 190 | | | | | | | | | | | | | | | | | | |
| 8/10/2001 | | | 140 | | | | | | | | | | | | | | | | | | |
| 8/21/2001 | 71 | | 120 | | | | | | | | | | | | | | | | | | |
| 9/7/2001 | 81 | | 120 | | | | | | | | | | | | | | | | | | |
| 9/10/2001 | 48 | | 130 | 99 | | | | | 98 | | | | | | 23 | | 110 | 120 | | 61 | |
| 9/13/2001 | | | | | 38 | | | | | | | | | | | | | | | | |
| 9/25/2001 | 90 | | 130 | 74 | 75 | | | | 76 | | | | | | 19 | | 110 | | | 42 | |
| 10/3/2001 | 120 | | 160 | | | | | | | | | | | | | | | | | | |
| 10/9/2001 | 77 | | 100 | | | | | | | | | | | | | | | | | | |
| 10/22/2001 | 87 | | 150 | 75 | 62 | | | | 89 | | | | | | 23 | | 190 | | | 76 | |
| 11/1/2001 | 57 | | 110 | | | | | | | | | | | | | | | | | | |

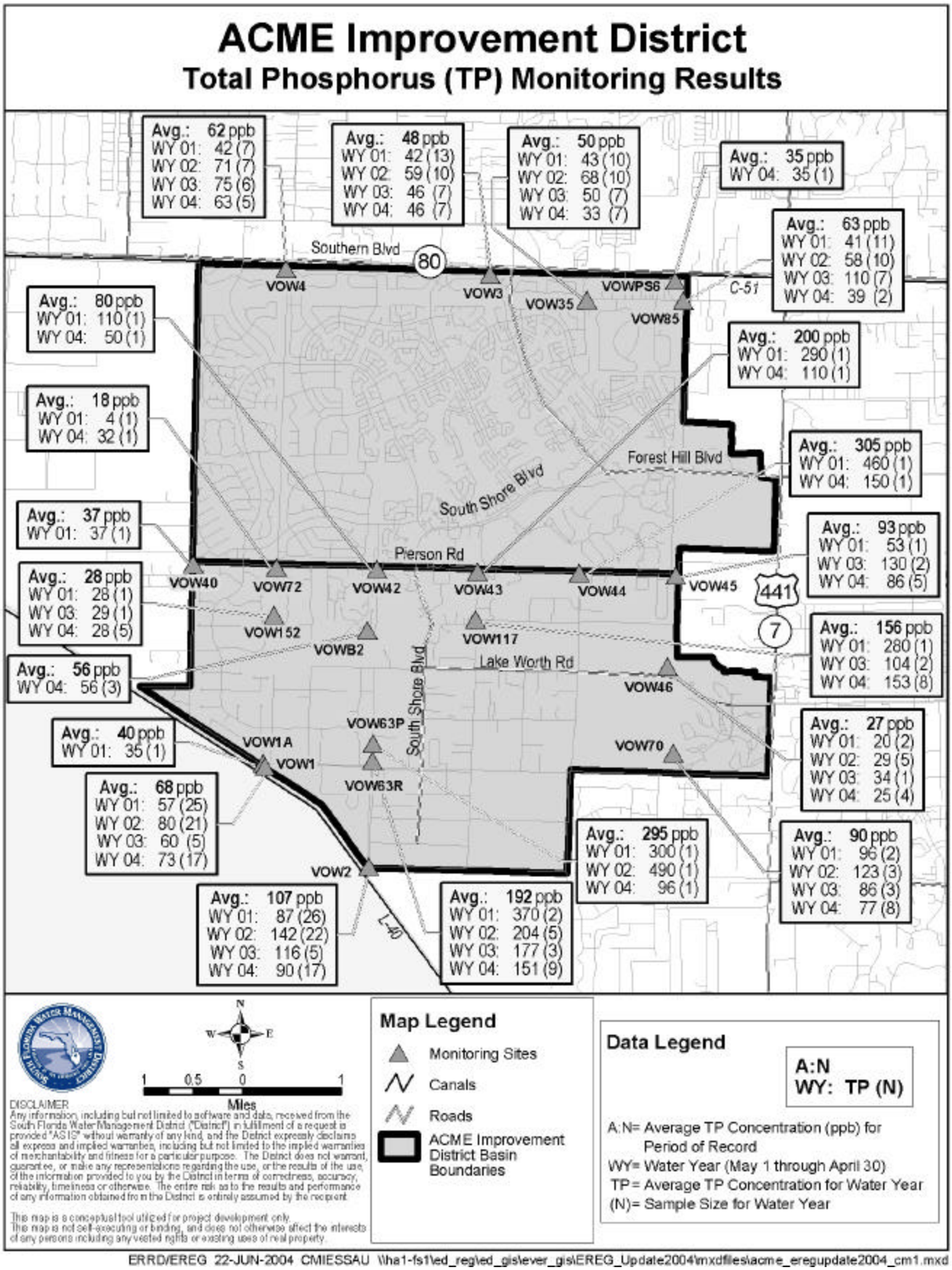
## Table B.1.b. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb) - Continued

| ***Village of Wellington*** | VOW1 | VOW1A | VOW2 | VOW3 | VOW4 | VOWPS6 | VOW117 | VOW152 | VOW35 | VOW40 | VOW42 | VOW43 | VOW44 | VOW45 | VOW46 | VOW63P | VOW63R | VOW70 | VOW72 | VOW85 | VOWE2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/7/2001 | 55 | | 79 | 28 | 24 | | | | 28 | | | | | | | | | | | 48 | |
| 12/31/2001 | 43 | | 62 | 25 | | | | | 32 | | | | | | | | | | | 43 | |
| 1/3/2002 | | | 99 | | | | | | | | | | | | | | | | | | |
| 2/11/2002 | 69 | | 120 | 53 | | | | | 44 | | | | | | 25 | | 280 | 40 | | 68 | |
| 2/20/2002 | 46 | | 94 | | | | | | | | | | | | | | | | | | |
| 6/14/2002 | | | | 21 | 73 | | | | 21 | | | | | | | | | | | 72 | |
| 6/28/2002 | | | | 72 | 98 | | | | 53 | | | | | | | | | | | 61 | |
| 7/15/2002 | 100 | | 240 | 63 | 130 | | | | 82 | | | | | | | | | | | 110 | |
| 8/19/2002 | 52 | | 100 | 46 | | | | | 59 | | | | | | | | | | | 51 | |
| 9/3/2002 | | | | 51 | | | | | 74 | | | | | | | | | | | 400 | |
| 12/10/2002 | 54 | | 89 | 39 | 26 | | | | 26 | | | | | | | | 180 | 110 | | 36 | |
| 3/24/2003 | 54 | | 75 | | | | 120 | | | | | | | 130 | 34 | | 180 | 75 | | | |
| 3/28/2003 | | | | | 82 | | | | | | | | | | | | | | | | |
| 4/28/2003 | | | | 28 | 38 | | | | 38 | | | | | | | | | 73 | | 37 | |
| 4/29/2003 | 41 | | 76 | | | | 88 | 29 | | | | | | 130 | | | 170 | | | | |
| 5/23/2003 | | | | 90 | | | | | 25 | | | | | | | | | | | 21 | |
| 5/27/2003 | 59 | | 84 | | | | 210 | | | | | | | 110 | 32 | | 210 | 60 | | | |
| 5/28/2003 | | | | | 86 | | | | | | | | | | | | | | | | |
| 6/7/2003 | | | | 37 | | | | | 33 | | | | | | | | | | | 57 | |
| 6/12/2003 | 120 | | 76 | | | | 190 | | | | | | | | 22 | | 190 | 71 | | | |
| 7/31/2003 | 57 | | 69 | 51 | 57 | | 110 | 27 | 50 | | | | | | 23 | | 92 | 37 | | | |
| 8/14/2003 | 96 | | 150 | | | | | | | | | | | | | | | | | | |
| 8/21/2003 | 57 | | 150 | 62 | | | | | 60 | | | | | 92 | 24 | | 140 | 155 | | | |
| 8/28/2003 | 84 | | 150 | | 86 | | | | | | | | | | | | | | | | |
| 9/11/2003 | 78 | | 160 | | | | | | | | | | | | | | | | | | |

## Table B.1.b. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb) - Continued

| ***Village of Wellington*** | VOW1 | VOW1A | VOW2 | VOW3 | VOW4 | VOWPS6 | VOW117 | VOW152 | VOW35 | VOW40 | VOW42 | VOW43 | VOW44 | VOW45 | VOW46 | VOW63P | VOW63R | VOW70 | VOW72 | VOW85 | VOWB2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/26/2003 | 73 | | 100 | 36 | | | 120 | | 25 | | | | | 75 | | | 130 | 83 | | | |
| 11/5/2003 | 220 | | 71 | 33 | | | 130 | | 22 | | | | | 57 | | | 220 | | | | |
| 11/6/2003 | 63 | | 69 | | 49 | | | 43 | | | | | | | | | | | | | |
| 12/11/2003 | 34 | | 40 | 16 | | | 64 | 20 | 18 | | | | | | | | 99 | 41 | | | 54 |
| 12/19/2003 | 62 | | 100 | | | | | | | | | | | | | | | | | | |
| 12/31/2003 | 54 | | 59 | | | | | | | | | | | | | | | | | | |
| 1/30/2004 | 38 | | 40 | | | | | | | | | | | | | | | | | | |
| 2/1/2004 | 49 | | 61 | | 37 | 35 | 210 | 23 | | | 50 | 110 | 150 | 95 | | 96 | 110 | 58 | 32 | | 60 |
| 2/17/2004 | 34 | | 56 | | | | | | | | | | | | | | | | | | |
| 2/26/2004 | 64 | | 92 | | | | 190 | 27 | | | | | | | | | 170 | 110 | | | 53 |
| **Average** | **68** | **40** | **107** | **48** | **62** | **35** | **156** | **28** | **50** | **37** | **80** | **200** | **305** | **93** | **27** | **295** | **192** | **90** | **18** | **63** | **56** |
| **N** | 68 | 1 | 70 | 37 | 25 | 1 | 11 | 7 | 34 | 1 | 2 | 2 | 2 | 8 | 12 | 3 | 19 | 16 | 2 | 30 | 3 |
| **Water Years (May 1 to April 30)** | | | | | | | | | | | | | | | | | | | | | |
| **WY 01** | **57** | **40** | **87** | **42** | **42** | | **280** | **28** | **43** | **37** | **110** | **290** | **460** | **53** | **20** | **300** | **370** | **96** | **4** | **41** | |
| **N** | 25 | 1 | 26 | 13 | 7 | 0 | 1 | 1 | 10 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 11 | 0 |
| **WY 02** | **80** | | **142** | **59** | **71** | | | | **68** | | | | | | **29** | **490** | **204** | **123** | | **58** | |
| **N** | 21 | 0 | 22 | 10 | 7 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 5 | 3 | 0 | 10 | 0 |
| **WY 03** | **60** | | **116** | **46** | **75** | | **104** | **29** | **50** | | | | | **130** | **34** | | **177** | **86** | | **110** | |
| **N** | 5 | 0 | 5 | 7 | 6 | 0 | 2 | 1 | 7 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 | 3 | 0 | 7 | 0 |
| **WY 04** | **73** | | **90** | **46** | **63** | **35** | **153** | **28** | **33** | | **50** | **110** | **150** | **86** | **25** | **96** | **151** | **77** | **32** | **39** | **56** |
| **N** | 17 | 0 | 17 | 7 | 5 | 1 | 8 | 5 | 7 | 0 | 1 | 1 | 1 | 5 | 4 | 1 | 9 | 8 | 1 | 2 | 3 |

**Figure B.1. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)**



## B.2. North Springs Improvement District Basin

### Table B.2.a. Historic Summary of Total Phosphorus (ppb) at Into Structure

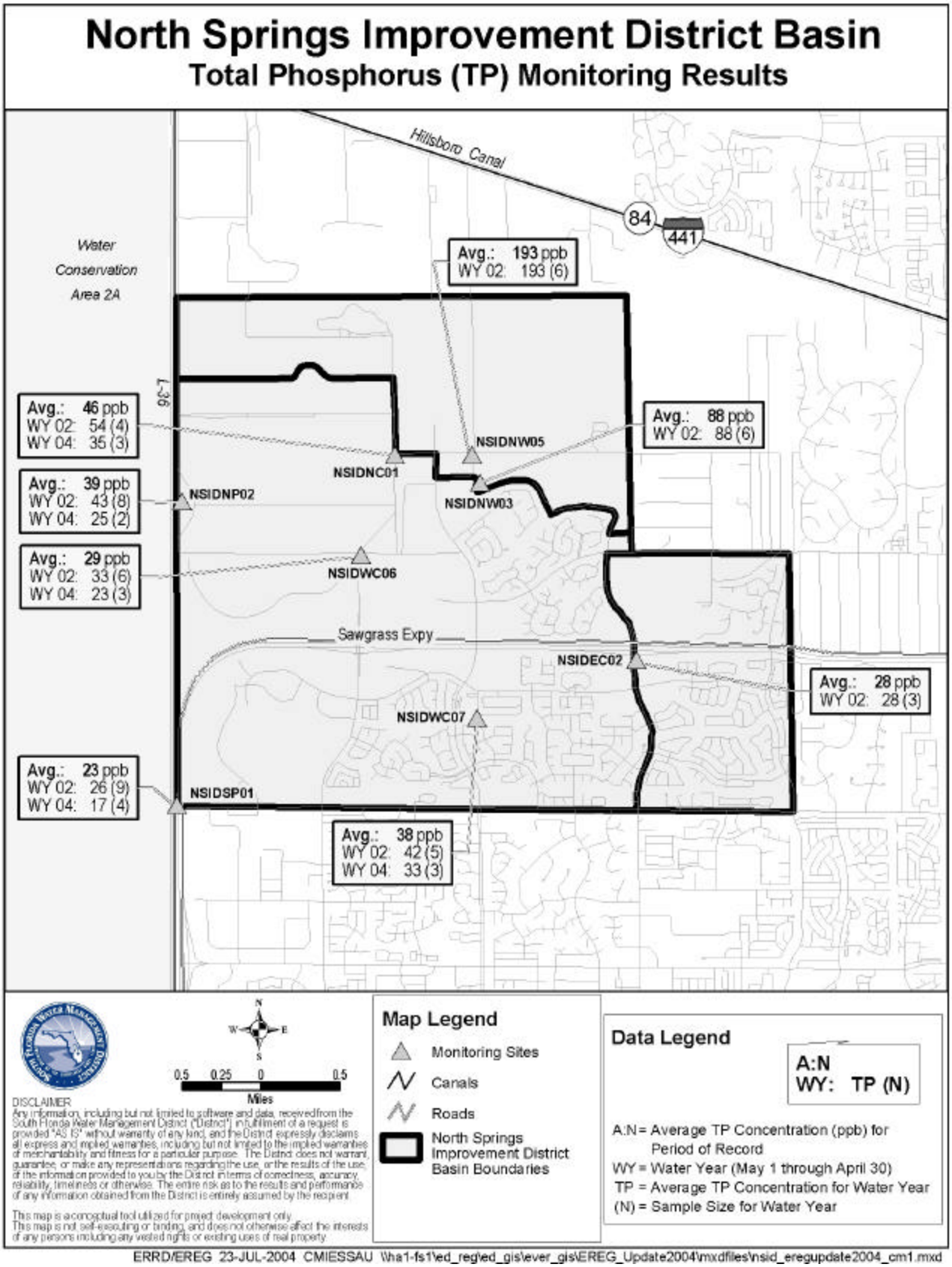
**Note:** ND= No TP Data NF= No Flow Data

| Period of Record | NSID1 (NSIDSP01) arithmetic ave. (grabs) | NSID1 (NSIDSP01) flow-weighted mean conc. |
|---|---|---|
| Water Year 98 (May 97-April 98) Grab | 24 | 28 |
| Water Year 99 (May 98-April 99) Grab | 18 | 18 |
| Water Year 00 (May 99-April 00) Grab | 32 | 36 |
| Water Year 01 (May 00-April 01) Grab | 14 | 16 |
| Water Year 02 (May 01-April 02) Grab | 20 | ND |
| Water Year 03 (May 02-April 03) Grab/Comp | 29 | ND |
| Water Year 04 (May 03-April 04) Grab/Comp | 18 | NF |

## Table B.2.b. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)

| ***North Springs Improvement District*** | NSIDEC02 | NSIDNC01 | NSIDNP02 | NSIDNW03 | NSIDNW05 | NSIDSP01 | NSIDWC06 | NSIDWC07 |
|---|---|---|---|---|---|---|---|---|
| 6/26/2001 | | | 32 | 27 | 122 | | 30 | 38 |
| 7/25/2001 | | | 48 | 26 | 172 | 22 | 35 | 48 |
| 8/3/2001 | | | | | | 29 | | |
| 9/12/2001 | | | | | | 25 | | |
| 9/13/2001 | 27 | 35 | 42 | 130 | 91 | 24 | 28 | 39 |
| 9/14/2001 | | | | | | 34 | | |
| 9/27/2001 | | | 42 | | | 29 | | |
| 9/28/2001 | 31 | 75 | 41 | 74 | 271 | 24 | 33 | 41 |
| 10/22/2001 | | 33 | 49 | 135 | 265 | 21 | 39 | |
| 11/6/2001 | 25 | 73 | 54 | 135 | 235 | 24 | 31 | 43 |
| 3/8/2002 | | | 36 | | | | | |
| 8/11/2003 | | 42 | | | | 19 | 28 | 40 |
| 8/27/2003 | | 34 | 27 | | | | 23 | 34 |
| 9/26/2003 | | 28 | 22 | | | 12 | 18 | 24 |
| 1/12/2004 | | | | | | 19 | | |
| 4/26/2004 | | | | | | 16 | | |
| **Average** | **28** | **46** | **39** | **88** | **193** | **23** | **29** | **38** |
| **N** | 3 | 7 | 10 | 6 | 6 | 13 | 9 | 8 |
| **Water Years (May 1 to April 30)** | | | | | | | | |
| **WY 02** | **28** | **54** | **43** | **88** | **193** | **26** | **33** | **42** |
| **N** | 3 | 4 | 8 | 6 | 6 | 9 | 6 | 5 |
| **WY 04** | | **35** | **25** | | | **17** | **23** | **33** |
| **N** | 0 | 3 | 2 | 0 | 0 | 4 | 3 | 3 |

**Figure B.2. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)**



## B.3. C-11 West Basin

### Table B.3.a. Historic Summary of Total Phosphorus (ppb) at Into Structures

| Period of Record | S-9 arithmetic ave. (grabs) | S-9 flow-weighted mean conc. | S-9A arithmetic ave. (grabs) | S-9A flow-weighted mean conc. |
|---|---|---|---|---|
| Water Year 98 (May 97-April 98) Grab/Comp | 13 | 17 | | |
| Water Year 99 (May 98-April 99) Grab/Comp | 14 | 19 | | |
| Water Year 00 (May 99-April 00) Grab/Comp | 16 | 26 | | |
| Water Year 01 (May 00-April 01) Grab/Comp | 18 | 23 | | |
| Water Year 02 (May 01-April 02) Grab/Comp | 17 | 19 | | |
| Water Year 03 (May 02-April 03) Grab/ Comp | 17 | 17 | | |
| Water Year 04 (May 03-April 04) Grab/ Comp | 15 | 18 | 14 | 13 |

## Table B.3.b. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)

| ***South Broward*** ***Drainage District*** | C1100TS1 | C1100ST5 | C1101OTS | C1101.3TS | C1102OTS | C1102.1TS | C1102.9TS | C1103.3TS | C1103.5TS | C1104.3TS | C1104.6TS | C1104.9TS | C111.3TS1 | C1120TS1 | C1120TS2 | C1128TS1 | C1128TS2 | C113.3TS1 | C1143TS1 | C1149TS1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/14/2000 | | 7 | | 15 | 19 | | 108 | 119 | | | 27 | 40 | | | | | | | | |
| 7/28/2000 | | | | | | | 22 | | | 24 | | | | | | 13 | | | | |
| 8/3/2000 | 13 | 8 | | 21 | 17 | | 29 | 121 | | 20 | | | | 20 | | 12 | | | | |
| 3/20/2001 | | | | | 34 | | 90 | | | | | | | | | | | | | |
| 5/25/2001 | | 7 | 648 | 46 | 50 | 630 | 139 | 138 | | 111 | 23 | 101 | | | | | | | | |
| 6/26/2001 | | 8 | | 15 | 33 | | 35 | 190 | | | 19 | 50 | | | | | | | | |
| 7/11/2001 | 22 | 8 | 170 | 17 | 27 | 200 | 45 | 220 | 51 | 34 | 23 | 73 | | 14 | | 11 | | | 13 | |
| 8/2/2001 | 18 | | 280 | | | | | 160 | | 28 | | | | 20 | | 12 | | | | |
| 9/10/2001 | | | | | | | | | | | | | | 31 | | | | | | |
| 10/1/2001 | | | | | | | | 130 | | | | | | | | | | | | |
| 10/22/2001 | 20 | 2 | 660 | 13 | 11 | 300 | 33 | 140 | | 32 | 13 | 26 | | 2 | | 2 | | | 13 | |
| 11/5/2001 | 14 | 6 | 180 | 8 | 10 | | 13 | 54 | | 39 | 13 | 18 | | 10 | | 6 | | | 10 | |
| 2/11/2002 | 2 | 5 | | 10 | 10 | | 19 | 14 | | | 9 | 16 | | 10 | | 10 | | | 13 | |
| 5/20/2002 | 27 | 3 | | 25 | 16 | | 22 | 24 | 20 | | | | | 18 | | 11 | | | 21 | |
| 6/14/2002 | 20 | 2 | 310 | 290 | 2 | | 51 | 87 | 230 | | | | | 12 | | 6 | | | 26 | |
| 7/18/2002 | | | | 13 | 8 | | 30 | 100 | | | 23 | 51 | 8 | | 13 | | 19 | 170 | | 41 |
| 8/23/2002 | | | | 11 | 12 | 270 | 33 | 110 | | | 16 | 33 | 15 | | 16 | | 10 | 320 | | 44 |
| 9/12/2002 | | | | 16 | 15 | | 22 | 71 | | 17 | 16 | 37 | 15 | | 13 | | 38 | 250 | | 23 |
| 12/9/2002 | | | 540 | 17 | 26 | | 23 | 250 | | 15 | 15 | 17 | 20 | | 14 | | 56 | | | 39 |
| 5/14/2003 | | | 120 | | | | 180 | 92 | | | | | | | | | 95 | 370 | | 56 |
| 5/28/2003 | | | 630 | 33 | 88 | 540 | 210 | 300 | 140 | 120 | 30 | 140 | 26 | | 45 | | 65 | 120 | | 210 |
| 8/21/2003 | | | 440 | 22 | 17 | | 110 | 190 | | 25 | 18 | 45 | 25 | | 14 | | 16 | 210 | | 130 |
| 9/26/2003 | | | 110 | 9 | 4 | | 110 | 32 | 26 | 24 | 5 | 17 | 10 | | 4 | | 42 | 340 | | 20 |
| 11/3/2003 | | | 1100 | 16 | 12 | | 40 | 45 | | 21 | 14 | 32 | 22 | | 11 | | 25 | 590 | | 59 |
| **Average** | **17** | **6** | **432** | **33** | **22** | **388** | **65** | **123** | **93** | **39** | **18** | **46** | **18** | **15** | **16** | **9** | **41** | **296** | **16** | **69** |
| **N** | 8 | 10 | 12 | 18 | 19 | 5 | 21 | 21 | 5 | 13 | 15 | 15 | 8 | 9 | 8 | 9 | 9 | 8 | 6 | 9 |
| **Water Years (May 1 to April 30)** | | | | | | | | | | | | | | | | | | | | |
| **WY01** | **13** | **8** | | **18** | **23** | | **62** | **120** | | **22** | **27** | **40** | | **20** | | **13** | | | | |
| **N** | 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** | |
| **N** | 5 | 6 | 5 | 6 | 6 | 3 | 6 | 8 | 1 | 5 | 6 | 6 | | 6 | | 5 | | | 4 | |
| **WY 03** | **24** | **3** | **425** | **62** | **13** | **270** | **30** | **107** | **125** | **16** | **18** | **35** | **14** | **15** | **14** | **9** | **31** | **247** | **24** | **37** |
| **N** | 2 | 2 | 2 | 6 | 6 | 1 | 6 | 6 | 2 | 2 | 4 | 4 | 4 | 2 | 4 | 2 | 4 | 3 | 2 | 4 |
| **WY 04** | | | **480** | **20** | **30** | **540** | **130** | **132** | **83** | **48** | **17** | **59** | **21** | | **19** | | **49** | **326** | | **95** |
| **N** | | | 5 | 4 | 4 | 1 | 5 | 5 | 2 | 4 | 4 | 4 | 4 | | 4 | | 5 | 5 | | 5 |

## Table B.3.c. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)

| ***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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/27/2000 | 35 | 94 | | 113 | | 48 | | 59 | | | | 28 | 25 | 42 |
| 7/28/2000 | | | | | 17 | | 28 | | 195 | | 16 | | | |
| 10/4/2000 | 59 | 151 | | 94 | | 164 | | 312 | 94 | | | | | 172 |
| 3/20/2001 | | 99 | | 38 | | | | | | | | | 11 | |
| 5/4/2001 | 16 | 78 | | 92 | 12 | 35 | 16 | 66 | 15 | | | 98 | 16 | 17 |
| 5/24/2001 | | 101 | | | | | | 89 | | | | 27 | 23 | |
| 5/25/2001 | 16 | | | 35 | 12 | 54 | 18 | | 28 | | 14 | | | 18 |
| 6/29/2001 | 12 | 84 | | 18 | 21 | 41 | 11 | | 22 | | 8 | 17 | 19 | 14 |
| 7/11/2001 | 24 | 93 | | 30 | 14 | 57 | 28 | | 59 | | 17 | 21 | 14 | 17 |
| 8/3/2001 | 22 | 83 | | 61 | 17 | 81 | 120 | 22 | 23 | | 20 | 39 | 42 | 17 |
| 9/7/2001 | 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 |
| 5/20/2002 | 11 | 40 | | 21 | 4 | 27 | 20 | 19 | 23 | | 13 | 4 | 8 | 22 |
| 7/19/2002 | 2 | 44 | | 13 | 6 | 6 | 15 | 16 | 6 | | 5 | 13 | 43 | 23 |
| 8/27/2002 | 19 | 13 | | 32 | 14 | | 22 | 22 | 19 | | 12 | 20 | 19 | 9 |
| 9/13/2002 | 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 |
| 3/28/2003 | 9 | 37 | 13 | 14 | | 14 | 14 | 18 | 12 | 28 | | 16 | 13 | 11 |
| 5/23/2003 | 15 | 69 | 50 | 34 | | 27 | 18 | 27 | 25 | 56 | | 29 | 11 | 15 |
| 8/21/2003 | 16 | 79 | 23 | 30 | | 52 | 18 | 62 | | 65 | | 43 | 22 | 21 |
| 9/30/2003 | 10 | 71 | 16 | 15 | | 23 | 7 | 30 | 65 | 30 | | 17 | 25 | 31 |
| 11/7/2003 | 8 | 85 | 19 | 20 | | 56 | 14 | 18 | | | | 24 | 13 | 43 |
| **Average** | **19** | **70** | **24** | **37** | **12** | **48** | **23** | **55** | **37** | **45** | **21** | **27** | **19** | **29** |
| **N** | 19 | 20 | 5 | 20 | 13 | 16 | 18 | 17 | 17 | 4 | 12 | 18 | 19 | 19 |
| **Water Years (May 1 to April 30)** | | | | | | | | | | | | | | |
| **WY 01** | **47** | **115** | | **82** | **17** | **106** | **28** | **186** | **145** | | **16** | **28** | **18** | **107** |
| **N** | 2 | 3 | 0 | 3 | 1 | 2 | 1 | 2 | 2 | 0 | 1 | 1 | 2 | 2 |
| **WY 02** | **20** | **76** | | **41** | **13** | **54** | **30** | **62** | **23** | | **25** | **37** | **21** | **17** |
| **N** | 7 | 7 | 0 | 7 | 7 | 6 | 7 | 5 | 7 | 0 | 6 | 7 | 7 | 7 |
| **WY 03** | **12** | **36** | **13** | **19** | **10** | **17** | **18** | **20** | **15** | **28** | **17** | **15** | **19** | **18** |
| **N** | 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** |
| **N** | 4 | 4 | 4 | 4 | 0 | 4 | 4 | 4 | 2 | 3 | 0 | 4 | 4 | 4 |

# Table B.3.d. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)

| ***Indian Trace Drainage District*** | C10010TN | C10015TN | C10021TN | C10027TN | C10043TN | C11177N1 |
|---|---|---|---|---|---|---|
| 10/4/2000 | | | 53 | 29 | 23 | |
| 5/24/2001 | | | | 21 | 21 | |
| 8/2/2001 | 25 | 9 | 21 | 26 | 15 | |
| 9/14/2001 | 20 | 12 | 16 | 18 | 13 | 11 |
| 10/23/2001 | 14 | 8 | 19 | 21 | 14 | 9 |
| 2/12/2002 | 7 | 7 | 8 | 14 | 11 | 7 |
| 5/20/2002 | 11 | 12 | 14 | 21 | 18 | 11 |
| 8/5/2002 | 6 | 8 | 57 | 31 | 14 | 9 |
| 9/12/2002 | | | 28 | 19 | 17 | |
| 10/16/2002 | | | 35 | 21 | | |
| 11/18/2002 | 8 | 9 | 31 | 41 | 16 | 12 |
| 3/17/2003 | | | 15 | 13 | 18 | |
| 3/19/2003 | 7 | 7 | 16 | 18 | 14 | 11 |
| 4/28/2003 | | | 21 | 18 | 12 | |
| 5/23/2003 | 9 | 7 | 27 | 25 | 16 | 10 |
| 6/10/2003 | | | 58 | 39 | 15 | |
| 8/14/2003 | 6 | 7 | 23 | 19 | 12 | 11 |
| 8/21/2003 | 8 | 7 | 16 | 14 | 9 | 15 |
| 9/26/2003 | | | 6 | 14 | 5 | |
| 9/29/2003 | 37 | 16 | 36 | 26 | 15 | 8 |
| 11/6/2003 | 30 | 9 | 21 | 15 | 14 | 9 |
| 2/2/2004 | 13 | 8 | 20 | 13 | 14 | 11 |
| 4/13/2004 | | | 15 | | 21 | |
| 4/14/2004 | 14 | 12 | 21 | 14 | 13 | 9 |
| **Average** | **14** | **9** | **25** | **21** | **15** | **10** |
| **N** | 15 | 15 | 23 | 23 | 23 | 14 |
| **Water Years (May 1 to April 30)** | | | | | | |
| **WY 01** | | | **53** | **29** | **23** | |
| **N** | | | 1 | 1 | 1 | |
| **WY 02** | **17** | **9** | **16** | **20** | **15** | **9** |
| **N** | 4 | 4 | 4 | 5 | 5 | 3 |
| **WY 03** | **8** | **9** | **27** | **23** | **16** | **11** |
| **N** | 4 | 4 | 8 | 8 | 7 | 4 |
| **WY 04** | **17** | **9** | **24** | **20** | **13** | **10** |
| **N** | 7 | 7 | 10 | 9 | 10 | 7 |

**Figure B.3.a. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)**

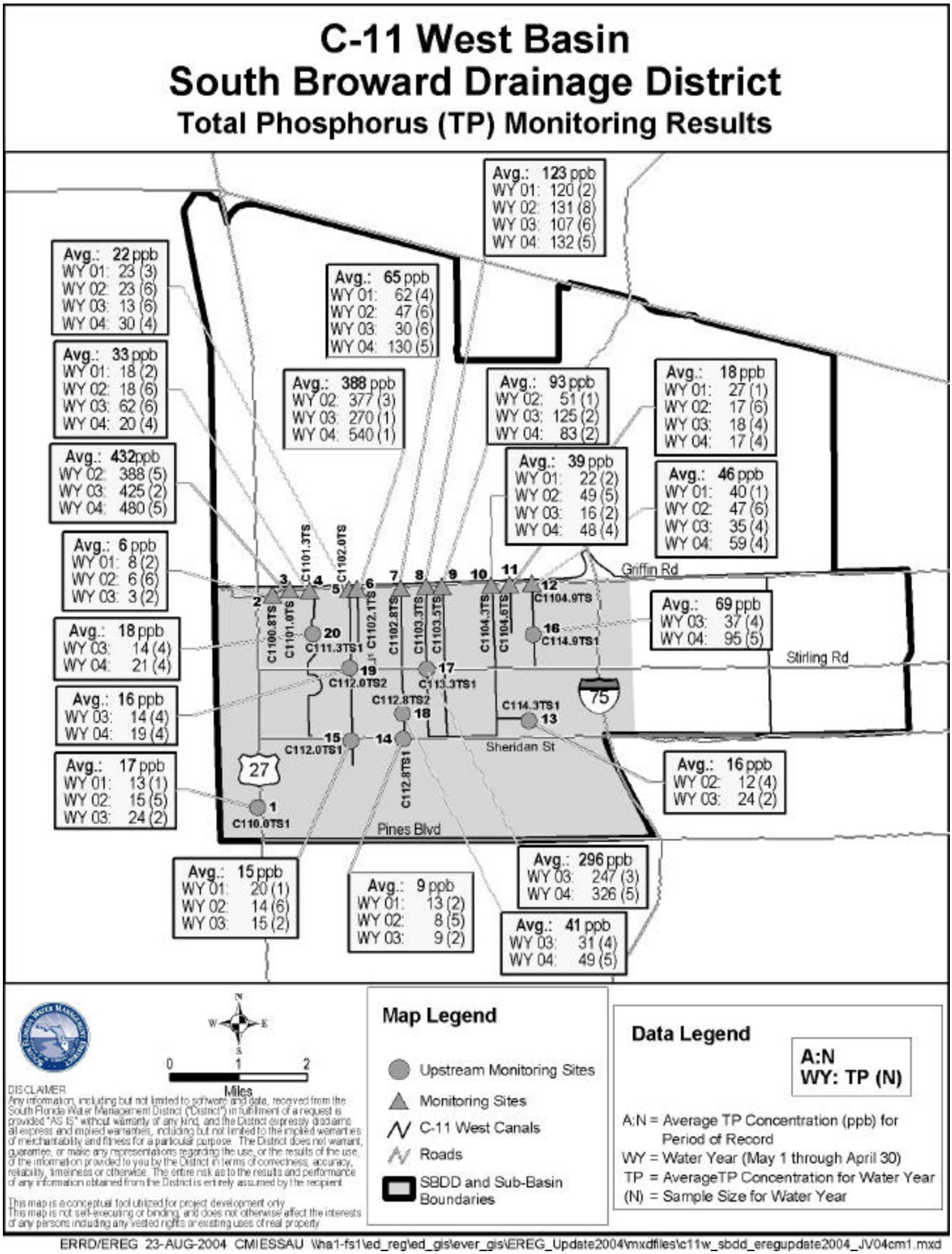


**Figure B.3.b. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)**

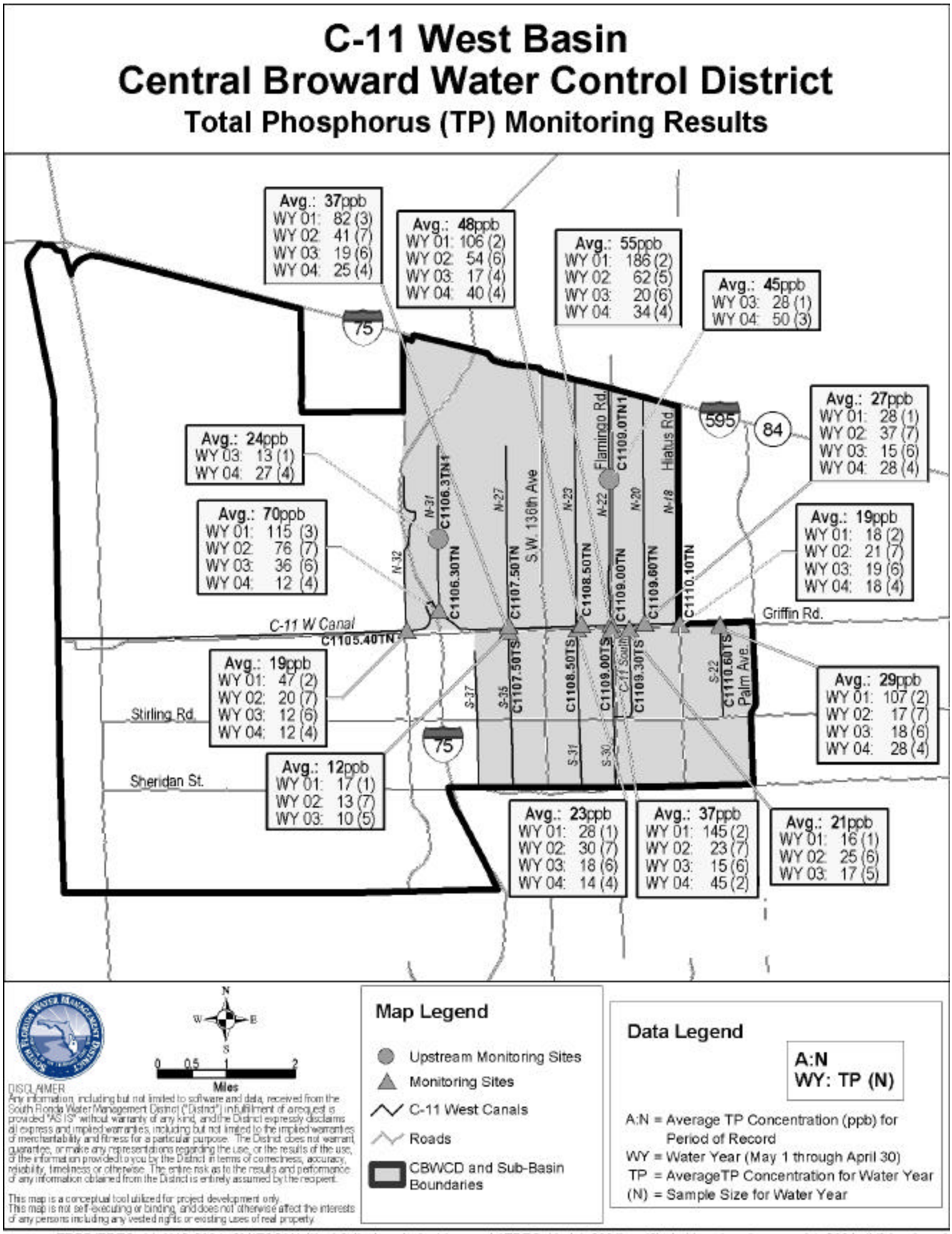
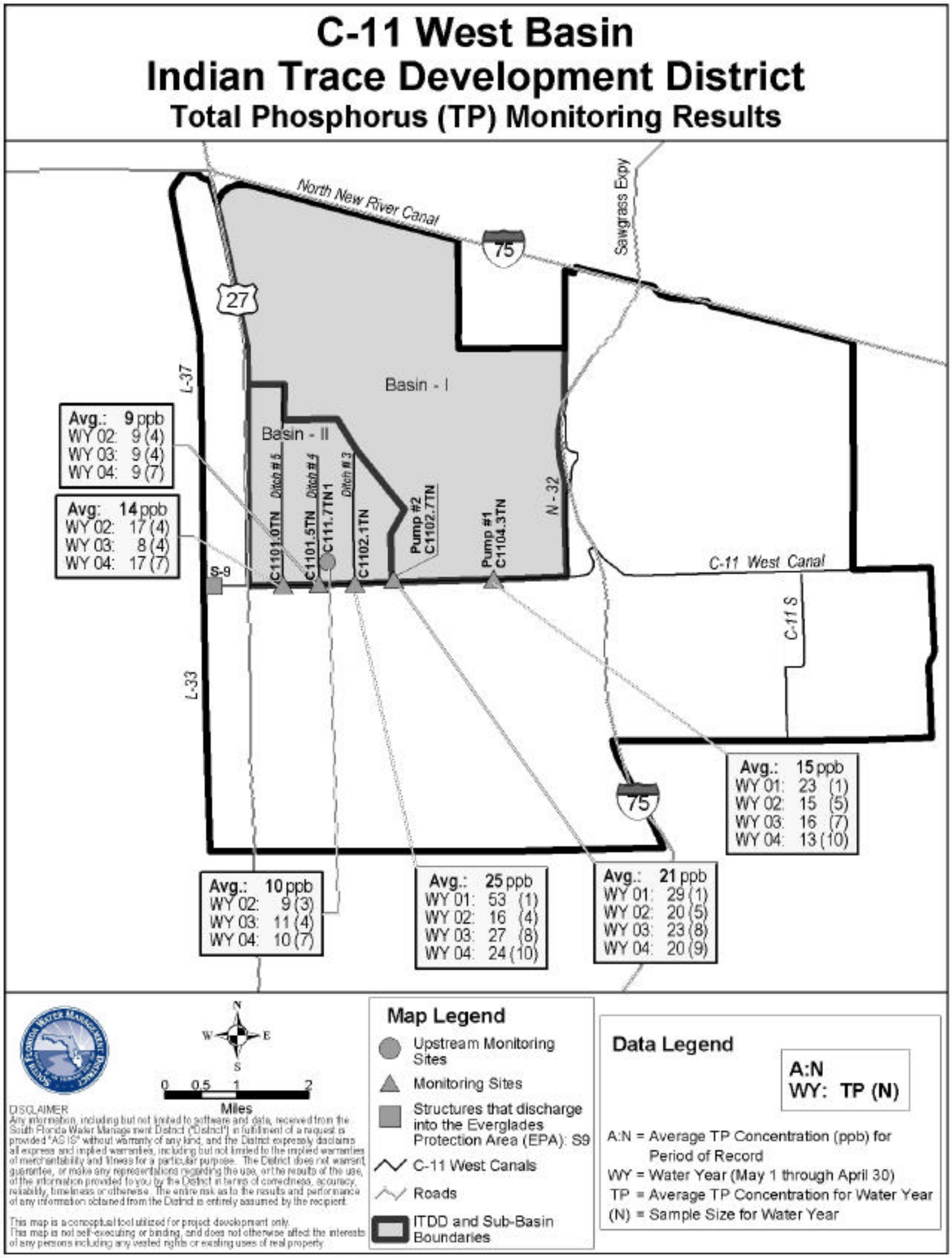


**Figure B.3.c. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)**



## B.4. North New River Canal Basin

### Table B.4.a. Historic Summary of Total Phosphorus (ppb) at Into Structure

**Note**: ND= No TP Data NF= No Flow Data

| Period of Record | G-123 arithmetic ave. (grabs) | G-123 flow-weighted mean conc. |
|---|---|---|
| Water Year 98 (May 97-April 98) Grab | 16 | 16 |
| Water Year 99 (May 98-April 99) Grab | 20 | ND |
| Water Year 00 (May 99-April 00) Grab | 17 | ND |
| Water Year 01 (May 00-April 01) Grab/Comp | 12 | 13 |
| Water Year 02 (May 01-April 02) Grab/Comp | 17 | 16 |
| Water Year 03 (May 02-April 03) Grab/Comp | 23 | NF |
| Water Year 04 (May 03-April 04) Grab/Comp | 20 | 17 |

# Table B.4.b. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)

| *North New River* | NNRWLAU1 | NNRWLAU2 | NNRPARK1 | NNRCSUN1 | NNROUTF4 | NNRLMOC1 | NNROUTF2 | NNROPLA1 | NNRPAOR4 | NNRPAOR1 | NNRPAOR2 | NNRPAOR3 | NNRPAOR4 | NNRPAOR5 | NNRPAOR6 | NNROPLF1 | NNROPLA2 | NNROPLA3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/24/2001 | | | 15 | 103 | | 75 | | | 30 | | | | | | | 18 | | |
| 7/24/2001 | | | 14 | 27 | | 43 | | 130 | 18 | | | | | | | 34 | | |
| 8/2/2001 | 24 | 54 | | | | | | 25 | 25 | 62 | | | | | | | 59 | 48 |
| 9/13/2001 | 18 | 64 | 10 | 27 | 29 | 47 | | | 45 | 76 | | | | | | 66 | 58 | 50 |
| 10/22/2001 | 24 | 81 | 13 | 40 | 59 | | 74 | | 31 | | | | | | | | | |
| 3/8/2002 | | | 16 | 19 | | | 17 | | 45 | | | | | | | 18 | | |
| 6/24/2002 | | | 16 | 32 | 38 | 100 | | | | | | | | | | 52 | 80 | 43 |
| 6/25/2002 | | | | | | | | | | | | | | | | 32 | 51 | 93 |
| 7/2/2002 | | | | | | | | | | 64 | 28 | | 46 | 25 | 17 | | | |
| 8/21/2002 | | | 7 | | | | 15 | 17 | 36 | 34 | | | | | | 22 | | |
| 9/4/2002 | | | | | | | | | | 35 | 24 | 22 | 21 | 28 | 40 | | | |
| 9/12/2002 | 23 | 59 | 6 | 23 | 23 | | | 20 | 23 | | | | | | | | | |
| 10/16/2002 | | 40 | | | | | | | | | | | | | | | | |
| 12/10/2002 | 19 | 64 | | | | | | | | | | | | | | | | |
| 2/20/2003 | | | | | | | | | | 66 | 18 | | 15 | 13 | 220 | | | |
| 3/17/2003 | 20 | 32 | | 29 | 34 | | 79 | | 37 | | | | | | | | | |
| 4/28/2003 | 17 | 36 | | | | | | | | | | | | | | | | |
| 5/23/2003 | 27 | 76 | | | | | | | | | | | | | | | | |
| 5/28/2003 | | | | 38 | 48 | 94 | 82 | 28 | 82 | 160 | | | | | | 35 | 109 | 43 |
| 6/17/2003 | 17 | 19 | | | | | | | | | | | | | | | | |
| 8/21/2003 | 8 | 7 | 9 | 24 | | | | 26 | 34 | | | | | | | 34 | | |
| 9/26/2003 | 5 | 16 | | | | | | | | | | | | | | | | |
| 11/6/2003 | 27 | 8 | | | | | | | | | | | | | | | | |
| 2/2/2004 | 25 | | 21 | 21 | 37 | 116 | 29 | 21 | | | | | | | | 28 | | |
| 4/14/2004 | | | 18 | 21 | 22 | | | 17 | | | | | | | | 14 | | |
| **Average** | **19** | **43** | **13** | **34** | **36** | **79** | **49** | **36** | **37** | **71** | **23** | **22** | **27** | **22** | **92** | **32** | **71** | **55** |
| **N** | 13 | 13 | 11 | 12 | 8 | 6 | 6 | 8 | 11 | 7 | 3 | 1 | 3 | 3 | 3 | 11 | 5 | 5 |
| **Water Years (May 1 to April 30)** | | | | | | | | | | | | | | | | | | |
| **WY 02** | **22** | **66** | **14** | **43** | **44** | **55** | **46** | **78** | **32** | **69** | | | | | | **34** | **59** | **49** |
| **N** | 3 | 3 | 5 | 5 | 2 | 3 | 2 | 2 | 6 | 2 | | | | | | 4 | 2 | 2 |
| **WY 03** | **20** | **46** | **10** | **28** | **32** | **100** | **47** | **19** | **32** | **50** | **23** | **22** | **27** | **22** | **92** | **35** | **66** | **68** |
| **N** | 4 | 5 | 3 | 3 | 3 | 1 | 2 | 2 | 3 | 4 | 3 | 1 | 3 | 3 | 3 | 3 | 2 | 2 |
| **WY 04** | **18** | **25** | **16** | **26** | **36** | **105** | **56** | **23** | **58** | **160** | | | | | | **28** | **109** | **43** |
| **N** | 6 | 5 | 3 | 4 | 3 | 2 | 2 | 4 | 2 | 1 | | | | | | 4 | 1 | 1 |

**Figure B.4.a. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)**

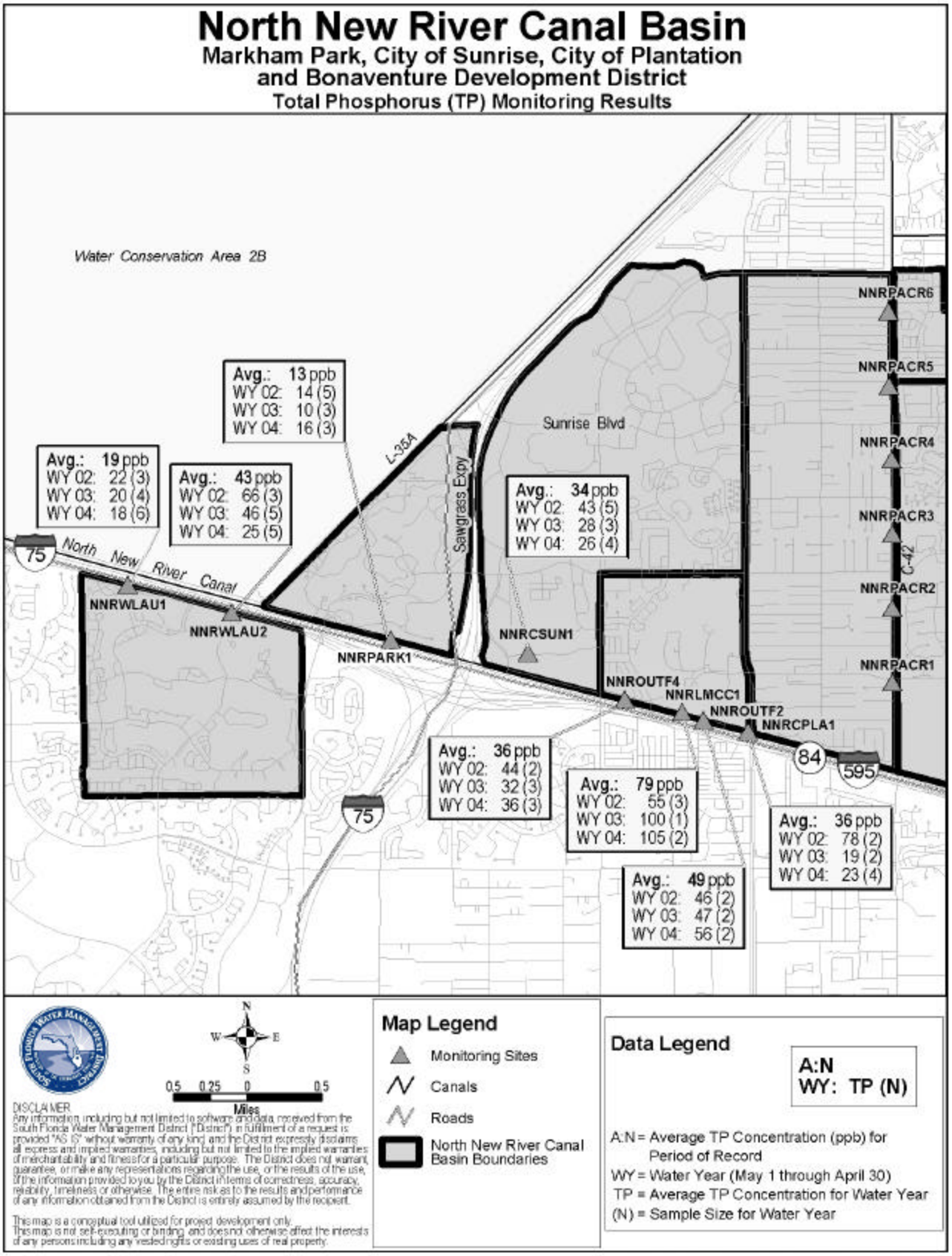
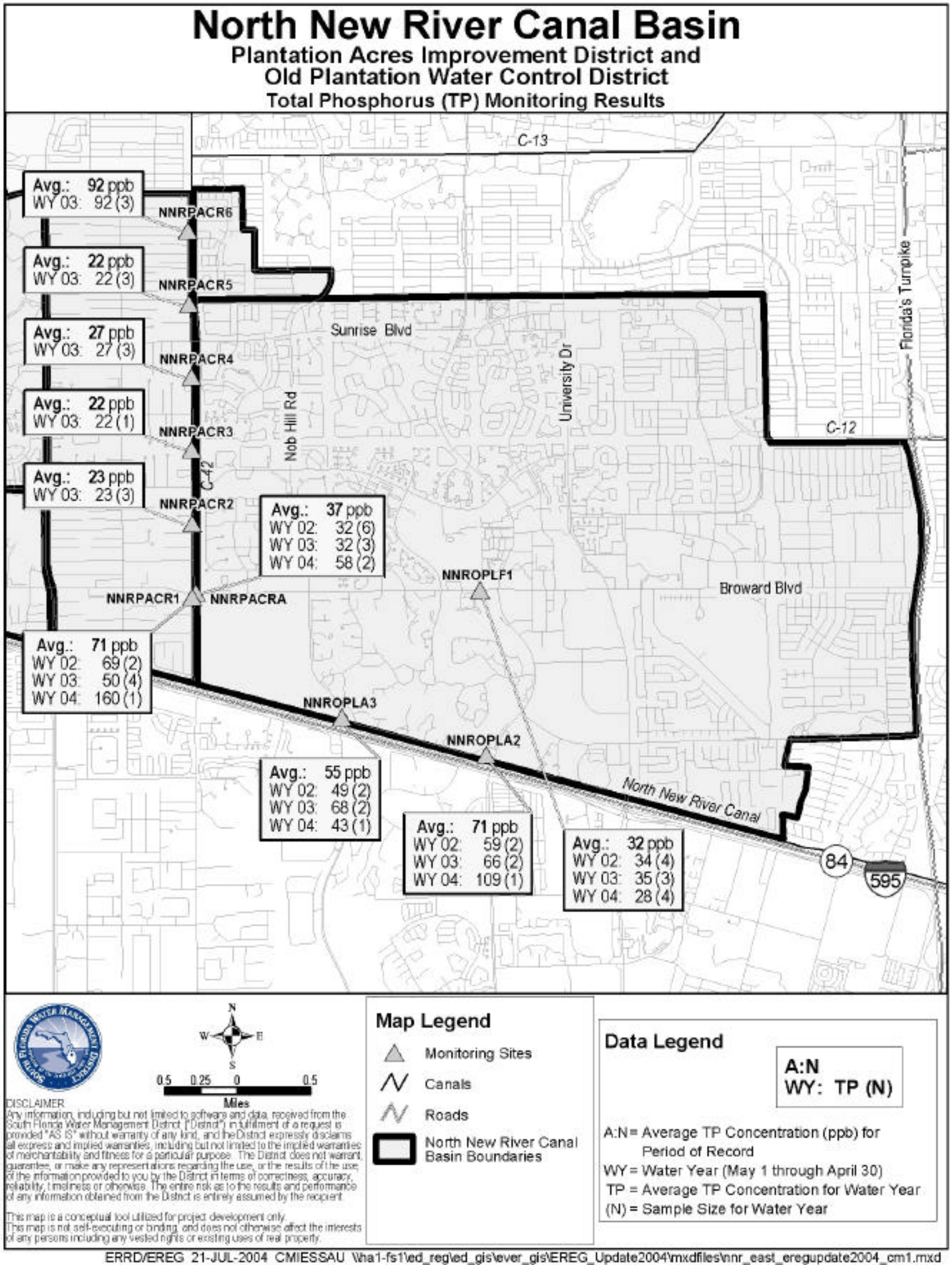


**Figure B.4.b. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)**

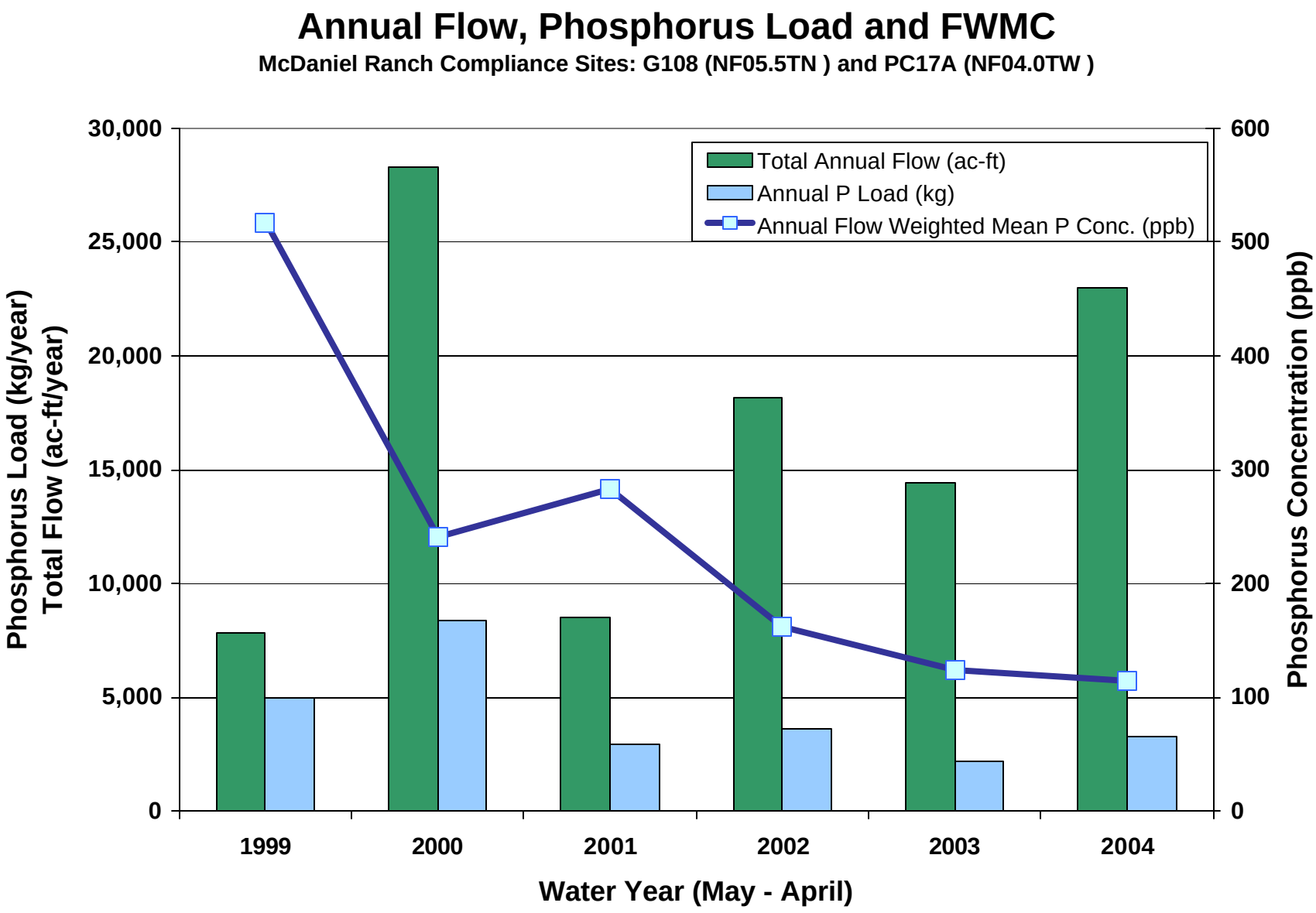


## B.5. Feeder Canal Basin

### Table B.5.a. Historic Summary of Total Phosphorus (ppb) at Into Structure

| Period of Record | S190 arithmetic ave. (grabs) | S190 flow-weighted mean conc. |
|---|---|---|
| Water Year 98 (May 97-April 98) Grab | 78 | 85 |
| Water Year 99 (May 98-April 99) Grab | 55 | 73 |
| Water Year 00 (May 99-April 00) Grab | 71 | 111 |
| Water Year 01 (May 00-April 01) Grab/Comp | 50 | 156 |
| Water Year 02 (May 01-April 02) Grab/Comp | 60 | 90 |
| Water Year 03 (May 02-April 03) Grab/Comp | 58 | 84 |
| Water Year 04 (May 03-April 04) Grab/Comp | 53 | 103 |

**Figure B.5.a. Historic Summary of Total Phosphorus, Flows and Loads at McDaniel Ranch Compliance Points**



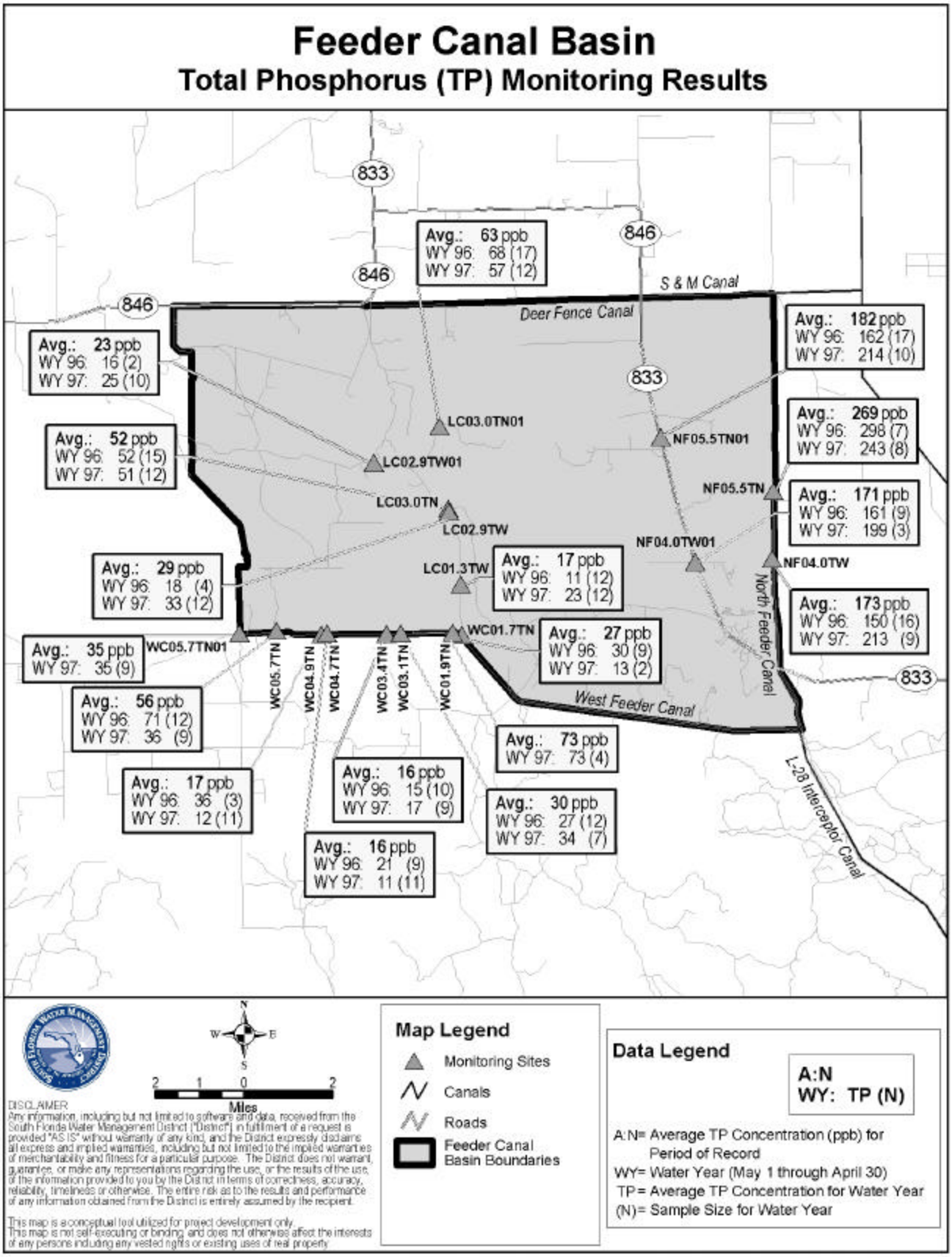
## Table B.5.b. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)

| ***West Feeder Basin Synoptic Survey*** | LC013TW | LC029TW01 | LC030TN | LC030TN01 | LC029TW | NF040TW | NF040TW01 | NF055TN | NF055TN01 | WC017TN | WC019TN | WC031TN | WC034TN | WC047TN | WC049TN | WC057TN | WC057TN01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/26/1996 | | | | | | 348 | 349 | 493 | 284 | 45 | | 46 | 31 | | | | |
| 7/10/1996 | | | | | | 269 | 237 | 296 | 230 | | | | | | | | |
| 7/25/1996 | 12 | | | 146 | | | | | 162 | | | 85 | 24 | | | 56 | |
| 8/8/1996 | 15 | | | 91 | | 143 | | | 153 | | | | | | | 318 | |
| 8/22/1996 | 12 | | 82 | 81 | | 355 | 177 | | 122 | 27 | | 20 | 12 | | | 42 | |
| 9/5/1996 | 12 | | | 43 | | 140 | 103 | 163 | 176 | 35 | | 23 | 10 | 13 | | 34 | |
| 9/19/1996 | 17 | | 77 | 103 | | 121 | 141 | 165 | 100 | 17 | | 20 | 11 | 11 | | 48 | |
| 10/3/1996 | | | 138 | 132 | | 310 | 138 | 206 | 155 | | | | | 10 | | 41 | |
| 10/17/1996 | 16 | | 110 | 131 | | 135 | 131 | 336 | 135 | 73 | | 24 | 14 | 10 | | 90 | |
| 10/31/1996 | 14 | | 68 | 44 | | | | | 94 | | | | 12 | 11 | | 65 | |
| 11/14/1996 | 7 | | 40 | 42 | | 118 | 47 | 426 | 66 | 32 | | 14 | | 12 | | 49 | |
| 11/26/1996 | | | 30 | 29 | | | | | | | | | | | | 62 | |
| 12/12/1996 | 9 | 15 | 37 | 39 | 24 | 170 | | | 75 | 19 | | 26 | 10 | 82 | 10 | 20 | |
| 12/31/1996 | | | | | 19 | | | | | 17 | | | | | | | |
| 1/16/1997 | 5 | 16 | 19 | 23 | 14 | | 130 | | | 4 | | 13 | 4 | 15 | 5 | 21 | |
| 2/13/1997 | 9 | | 36 | 58 | 15 | 99 | | | 126 | | | 18 | 22 | | | | |
| 2/27/1997 | 7 | | 26 | 52 | | 73 | | | 268 | | | 17 | | | | | |
| 3/13/1997 | | | 36 | 46 | | 18 | | | 301 | | | 23 | | 28 | | | |
| 3/27/1997 | | | 25 | 56 | | 43 | | | 144 | | | | | | 94 | | |
| 4/10/1997 | | | 34 | | | 33 | | | 170 | | | | | | | | |
| 4/24/1997 | | | 28 | 38 | | 25 | | | | | | | | | | | |
| 5/8/1997 | | | 28 | 38 | | | | | | | | | | | | | |

## Table B.5.b. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb) - Continued

| ***West Feeder Basin Synoptic Survey*** | LC013TW | LC029TW01 | LC030TN | LC030TN01 | LC029TW | NF040TW | NF040TW01 | NF055TN | NF055TN01 | WC017TN | WC019TN | WC031TN | WC034TN | WC047TN | WC049TN | WC057TN | WC057TN01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/22/1997 | 12 | 19 | 43 | 61 | 15 | 41 | | | 65 | | | 14 | 7 | 12 | 13 | | |
| 6/5/1997 | 15 | 25 | 60 | 55 | 23 | 188 | | 301 | 76 | 13 | 22 | 120 | 15 | 20 | 22 | 21 | 26 |
| 6/19/1997 | 8 | 22 | 60 | 61 | 54 | | | | | | | | | 11 | 17 | 39 | 20 |
| 7/3/1997 | 35 | | 54 | 46 | 28 | 435 | | 415 | 390 | | 210 | 34 | 35 | 6 | 9 | 15 | 22 |
| 7/17/1997 | 36 | 12 | 64 | 75 | 15 | 280 | 174 | 236 | 216 | | | | | 9 | 12 | 25 | 31 |
| 7/31/1997 | 8 | 22 | 45 | 72 | 23 | 155 | | | 311 | 13 | | 15 | 23 | 9 | 9 | 18 | 33 |
| 8/14/1997 | 17 | 38 | 49 | 46 | 42 | 299 | 257 | 294 | 335 | | | 11 | 9 | 8 | 10 | 41 | 58 |
| 8/27/1997 | 17 | 35 | 67 | 75 | 33 | 182 | | 134 | 158 | | 16 | 14 | 12 | 10 | 11 | 29 | 36 |
| 9/11/1997 | 50 | 27 | 47 | 48 | 35 | 194 | 165 | 215 | 217 | | 45 | 27 | 16 | 11 | 12 | 98 | 46 |
| 9/26/1997 | 29 | | 57 | 47 | 55 | 139 | | 162 | 222 | | | | | | | | |
| 10/9/1997 | 22 | 19 | 39 | 55 | 27 | | | 187 | 150 | | | | 16 | 7 | 8 | 37 | 45 |
| 10/23/1997 | 26 | 27 | | | 46 | | | | | | | | 17 | 22 | 10 | | |
| **Average** | **17** | **23** | **52** | **63** | **29** | **173** | **171** | **269** | **182** | **27** | **73** | **30** | **16** | **16** | **17** | **56** | **35** |
| **N** | 24 | 12 | 27 | 29 | 16 | 25 | 12 | 15 | 27 | 11 | 4 | 19 | 19 | 20 | 14 | 21 | 9 |
| **Water Years (May 1 to April 30)** | | | | | | | | | | | | | | | | | |
| **WY 96** | **11** | **16** | **52** | **68** | **18** | **150** | **161** | **298** | **162** | **30** | | **27** | **15** | **21** | **36** | **71** | |
| **N** | 12 | 2 | 15 | 17 | 4 | 16 | 9 | 7 | 17 | 9 | | 12 | 10 | 9 | 3 | 12 | |
| **WY 97** | **23** | **25** | **51** | **57** | **33** | **213** | **199** | **243** | **214** | **13** | **73** | **34** | **17** | **11** | **12** | **36** | **35** |
| **N** | 12 | 10 | 12 | 12 | 12 | 9 | 3 | 8 | 10 | 2 | 4 | 7 | 9 | 11 | 11 | 9 | 9 |

**Figure B.5.b. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)**



## B.6. L-28 Basin

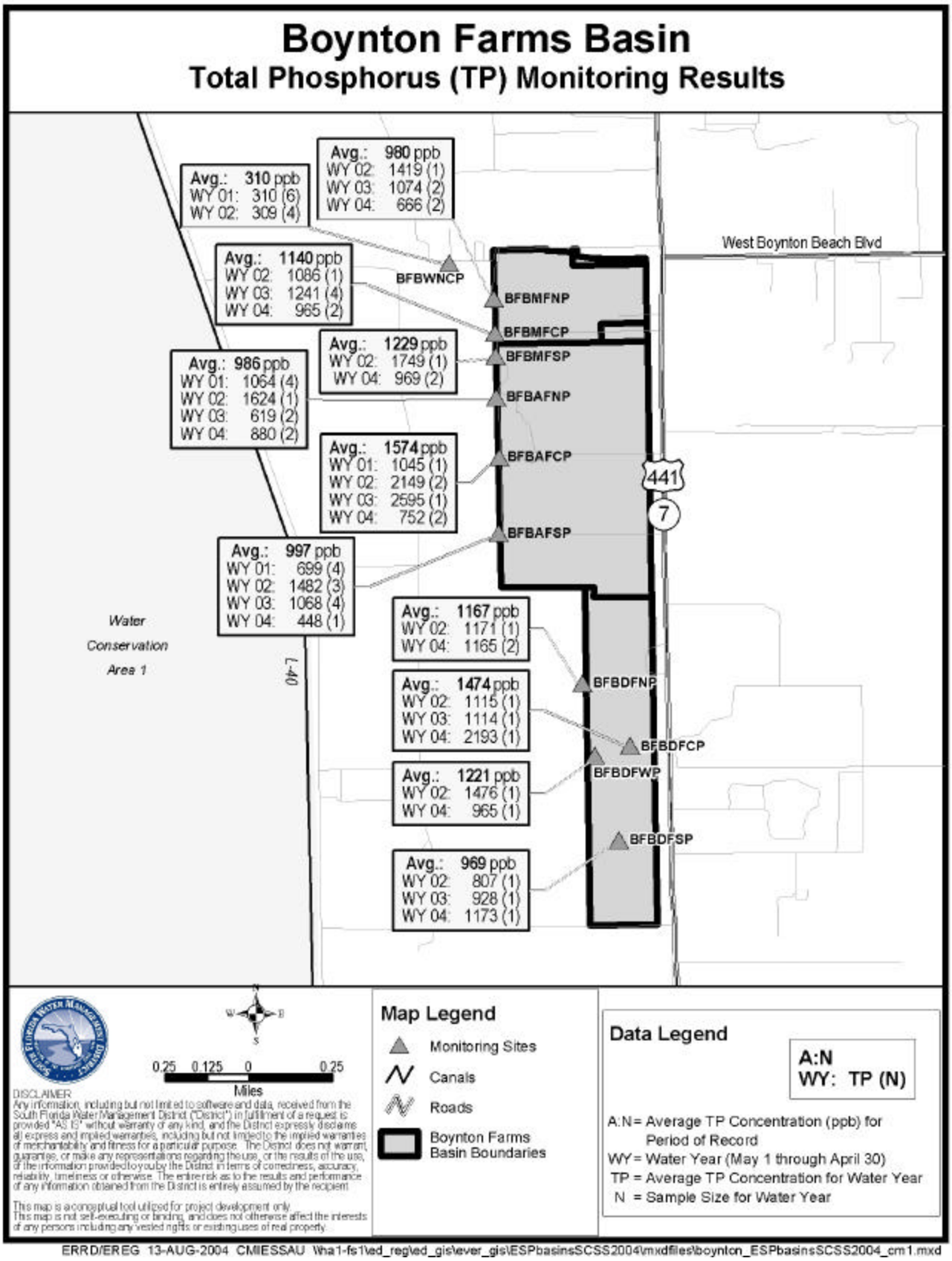
### Table B.6. Historic Summary of Total Phosphorus (ppb) at Into Structure

| Period of Record | S140 arithmetic ave. (grabs) | S140 flow-weighted mean conc. |
|---|---|---|
| Water Year 98 (May 97-April 98) Grab | 36 | 37 |
| Water Year 99 (May 98-April 99) Grab | 44 | 52 |
| Water Year 00 (May 99-April 00) Grab | 60 | 67 |
| Water Year 01 (May 00-April 01) Grab/Comp | 61 | 113 |
| Water Year 02 (May 01-April 02) Grab/Comp | 46 | 47 |
| Water Year 03 (May 02-April 03) Grab/Comp | 42 | 65 |
| Water Year 04 (May 03-April 04) Grab/Comp | 35 | 42 |

## Table B.7. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)

| ***Boynton Farms*** | BFBAFCP | BFBAFNP | BFBAFSP | BFBDFCP | BFBDFNP | BFBDFSP | BFBDFWP | BFBMFCP | BFBMFNP | BFBMFSP | BFBMNCP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/26/2000 | | 1651 | 1013 | | | | | | | | 252 |
| 5/10/2000 | | 1073 | 381 | | | | | | | | 398 |
| 9/17/2000 | | 389 | 710 | | | | | | | | 294 |
| 10/5/2000 | | | | | | | | | | | 344 |
| 11/28/2000 | | | | | | | | | | | 303 |
| 3/20/2001 | 1045 | 1144 | 690 | | | | | | | | 270 |
| 9/16/2001 | 1372 | | 1901 | | 1171 | 807 | 1476 | | | 1749 | 339 |
| 10/22/2001 | 2926 | 1624 | 1723 | | | | | | | | 357 |
| 11/5/2001 | | | | | | | | | | | 287 |
| 2/11/2002 | | | 822 | 1115 | | | | 1086 | 1419 | | 254 |
| 9/9/2002 | | | | | | | | 1336 | 1428 | | |
| 12/8/2002 | | | 1273 | | | | | 1289 | | | |
| 12/10/2002 | 2595 | | 1591 | | | | | 1760 | | | |
| 3/16/2003 | | 754 | 581 | 1114 | | 928 | | 579 | 720 | | |
| 4/27/2003 | | 483 | 827 | | | | | | | | |
| 5/23/2003 | 343 | 559 | 448 | 2193 | 1330 | 1173 | 965 | 957 | 355 | 798 | |
| 9/28/2003 | | | | | 1000 | | | | | | |
| 11/5/2003 | 1160 | 1200 | | | | | | 973 | 976 | 1140 | |
| **Average** | **1574** | **986** | **997** | **1474** | **1167** | **969** | **1221** | **1140** | **980** | **1229** | **310** |
| **N** | 6 | 9 | 12 | 3 | 3 | 3 | 2 | 7 | 5 | 3 | 10 |
| **Water Years (May 1 to April 30)** | | | | | | | | | | | |
| **WY 01** | **1045** | **1064** | **699** | | | | | | | | **310** |
| **N** | 1 | 4 | 4 | | | | | | | | 6 |
| **WY 02** | **2149** | **1624** | **1482** | **1115** | **1171** | **807** | **1476** | **1086** | **1419** | **1749** | **309** |
| **N** | 2 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 |
| **WY 03** | **2595** | **619** | **1068** | **1114** | | **928** | | **1241** | **1074** | | |
| **N** | 1 | 2 | 4 | 1 | | 1 | | 4 | 2 | | |
| **WY 04** | **752** | **880** | **448** | **2193** | **1165** | **1173** | **965** | **965** | **666** | **969** | |
| **N** | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | |

**Figure B.7. Summary of Total Phosphorus Data (ppb)**



## B.8. C-111 Basin

### Table B.8.a. Historic Summary of Total Phosphorus (ppb) at Into Structures

**Note**: ND= No TP Data NF= No Flow Data

| Period of Record | S-18C arithmetic ave. (grabs) | S-18C flow-weighted mean conc. | S-332 arithmetic ave. (grabs) | S-332 flow-weighted mean conc. | S-175 arithmetic ave. (grabs) | S-175 flow-weighted mean conc. |
|---|---|---|---|---|---|---|
| Water Year 98 (May 97-April 98)Grab | 8 | | 7 | | 7 | |
| Water Year 99 (May 98-April 99)Grab | 8 | 13 | 8 | 7 | 7 | 5 |
| Water Year 00 (May 99-April 00)Grab | 8 | 9 | 8 | 8 | 7 | 8 |
| Water Year 01 (May 00-April 01)Grab | 8 | 9 | 9 | 16 | 9 | ND |
| Water Year 02 (May 01-April 02)Grab | 6 | 5 | 6 | NF | 7 | 7 |
| Water Year 03 (May 02-April 03)Grab/Comp (S-18C) | 5 | 6 | 8 | ND | 10 | 10 |
| Water Year 04 (May 03-April 04)Grab/Comp (S-18C) | 4 | 9 | 7 | 13 | 7 | 5 |

## Table B.8.b. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)

| C-111 | S176 | S178 | S332D |
|---|---|---|---|
| 5/11/1999 | 27 | | |
| 5/26/1999 | | 13 | |
| 6/16/1999 | | | 5 |
| 6/22/1999 | 12 | | 6 |
| 6/23/1999 | | 10 | |
| 6/29/1999 | | | 4 |
| 7/8/1999 | | | 2 |
| 7/13/1999 | | | 5 |
| 7/20/1999 | 12 | | |
| 7/21/1999 | | 16 | |
| 7/22/1999 | | | 5 |
| 7/27/1999 | 6 | | |
| 7/28/1999 | | | 5 |
| 8/2/1999 | 11 | | |
| 8/4/1999 | | | 7 |
| 8/11/1999 | 9 | | 4 |
| 8/17/1999 | 8 | 36 | |
| 8/18/1999 | | | 4 |
| 8/25/1999 | 6 | | 5 |
| 8/30/1999 | 5 | | |
| 8/31/1999 | 7 | | 5 |
| 9/1/1999 | 5 | | |
| 9/2/1999 | 6 | | |
| 9/3/1999 | 6 | | |

| C-111 (cont.) | S176 | S178 | S332D |
|---|---|---|---|
| 9/6/1999 | 9 | | |
| 9/7/1999 | 11 | | |
| 9/8/1999 | 9 | | 5 |
| 9/9/1999 | 6 | | |
| 9/10/1999 | 12 | | |
| 9/13/1999 | 7 | | |
| 9/20/1999 | 8 | | |
| 9/21/1999 | | | 7 |
| 9/22/1999 | 12 | | |
| 9/29/1999 | 4 | 27 | |
| 9/30/1999 | | | 5 |
| 10/6/1999 | | | 5 |
| 10/13/1999 | | | 4 |
| 10/19/1999 | | | 56 |
| 10/21/1999 | 18 | | |
| 10/27/1999 | 12 | 93 | 6 |
| 10/29/1999 | 7 | | |
| 11/3/1999 | 7 | | 8 |
| 11/4/1999 | 6 | | |
| 11/9/1999 | 8 | | |
| 11/10/1999 | | | 5 |
| 11/16/1999 | 5 | | |
| 11/18/1999 | 9 | | |
| 11/23/1999 | 11 | 28 | |

| C-111 (cont.) | S176 | S178 | S332D |
|---|---|---|---|
| 12/8/1999 | 7 | | |
| 12/21/1999 | | 26 | |
| 1/5/2000 | 7 | | |
| 1/19/2000 | 9 | 22 | |
| 2/2/2000 | 12 | | 8 |
| 2/8/2000 | | | 8 |
| 2/16/2000 | 7 | | 7 |
| 2/22/2000 | | | 9 |
| 2/29/2000 | 7 | 33 | 6 |
| 3/8/2000 | | | 8 |
| 3/15/2000 | 6 | | 6 |
| 3/21/2000 | | | 6 |
| 3/29/2000 | 9 | 33 | 5 |
| 4/4/2000 | | | 16 |
| 4/12/2000 | 17 | | 29 |
| 4/18/2000 | | | 12 |
| 4/26/2000 | | 74 | 9 |
| 5/4/2000 | 6 | | |
| 5/10/2000 | 11 | | 11 |
| 5/17/2000 | 12 | | 12 |
| 5/24/2000 | 11 | 40 | 12 |
| 6/1/2000 | 16 | | 15 |
| 6/7/2000 | 16 | | 14 |
| 6/14/2000 | | | 10 |

| C-111 (cont.) | S176 | S178 | S332D |
|---|---|---|---|
| 6/21/2000 | 6 | 20 | 4 |
| 6/28/2000 | | | 8 |
| 7/6/2000 | | | 6 |
| 7/12/2000 | | | 8 |
| 7/19/2000 | 6 | 16 | 5 |
| 7/25/2000 | | | 8 |
| 7/31/2000 | | | 7 |
| 8/2/2000 | 8 | | 6 |
| 8/8/2000 | | | 7 |
| 8/15/2000 | | | 7 |
| 8/16/2000 | 6 | | 6 |
| 8/23/2000 | | | 6 |
| 8/30/2000 | | 16 | 6 |
| 9/5/2000 | | | 6 |
| 9/13/2000 | 7 | 123 | 6 |
| 9/19/2000 | | | 6 |
| 9/27/2000 | | | 6 |
| 10/3/2000 | | | 9 |
| 10/11/2000 | 9 | 92 | 7 |
| 10/18/2000 | | | 6 |
| 10/25/2000 | 6 | | 6 |
| 10/31/2000 | | | 9 |
| 11/8/2000 | 6 | | 6 |
| 11/15/2000 | | | 6 |

## Table B.8.b. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb) - Continued

| C-111 (cont.) | S176 | S178 | S332D | | |
|---|---|---|---|---|---|
| 11/21/2000 | | 30 | 7 | | |
| 11/29/2000 | | | 6 | | |
| 12/6/2000 | | | 7 | | |
| 12/14/2000 | | | 6 | | |
| 12/20/2000 | 7 | 20 | 6 | | |
| 12/28/2000 | | | 5 | | |
| 1/3/2001 | | | 7 | | |
| 1/11/2001 | | | 8 | | |
| 1/17/2001 | 7 | | 5 | | |
| 1/25/2001 | | | 5 | | |
| 1/31/2001 | 5 | 39 | 5 | | |
| 2/8/2001 | | | 6 | | |
| 2/14/2001 | 11 | 54 | 10 | | |
| 2/22/2001 | | | 7 | | |
| 2/28/2001 | 14 | | 8 | | |
| 3/8/2001 | | | 10 | | |
| 3/14/2001 | 7 | 32 | 7 | | |
| 3/22/2001 | | | 11 | | |
| 3/28/2001 | 11 | | 11 | | |
| 4/5/2001 | | | 8 | | |
| 4/11/2001 | 7 | 46 | 8 | | |
| 4/25/2001 | 9 | | 10 | | |
| 5/3/2001 | | | 10 | | |
| 5/9/2001 | | | 10 | | |

| C-111 (cont.) | S176 | S178 | S332D | | |
|---|---|---|---|---|---|
| 5/17/2001 | | | 11 | | |
| 5/23/2001 | 13 | 168 | 14 | | |
| 5/31/2001 | | | 8 | | |
| 6/6/2001 | | 24 | 5 | | |
| 6/14/2001 | | | 5 | | |
| 6/20/2001 | 5 | | 5 | | |
| 6/28/2001 | | | 8 | | |
| 7/5/2001 | | | 7 | | |
| 7/12/2001 | | | 7 | | |
| 7/18/2001 | 6 | | 6 | | |
| 7/26/2001 | | | 6 | | |
| 7/31/2001 | | 17 | 4 | | |
| 8/9/2001 | | | 5 | | |
| 8/15/2001 | | | 5 | | |
| 8/23/2001 | | | 6 | | |
| 8/29/2001 | 7 | 45 | 7 | | |
| 9/6/2001 | | | 5 | | |
| 9/12/2001 | | 94 | 6 | | |
| 9/20/2001 | | | 4 | | |
| 9/26/2001 | 16 | | 5 | | |
| 10/4/2001 | | | 4 | | |
| 10/10/2001 | | | 5 | | |
| 10/18/2001 | | | 5 | | |
| 10/24/2001 | 6 | 87 | 5 | | |

| C-111 (cont.) | S176 | S178 | S332D | | |
|---|---|---|---|---|---|
| 11/1/2001 | | | 7 | | |
| 11/7/2001 | 6 | | 5 | | |
| 11/15/2001 | | | 5 | | |
| 11/20/2001 | | 54 | 6 | | |
| 11/29/2001 | | | 5 | | |
| 12/5/2001 | 6 | 35 | 5 | | |
| 12/13/2001 | | | 6 | | |
| 12/19/2001 | 6 | | 6 | | |
| 12/27/2001 | | | 6 | | |
| 1/2/2002 | 6 | | 5 | | |
| 1/10/2002 | | | 4 | | |
| 1/16/2002 | | 35 | 6 | | |
| 1/24/2002 | | | 4 | | |
| 1/30/2002 | | | 4 | | |
| 2/7/2002 | | | 5 | | |
| 2/13/2002 | | 24 | 5 | | |
| 2/21/2002 | | | 4 | | |
| 2/27/2002 | 6 | | 5 | | |
| 3/7/2002 | | | 5 | | |
| 3/13/2002 | | 26 | 6 | | |
| 3/21/2002 | | | 6 | | |
| 3/27/2002 | 9 | | 9 | | |
| 4/4/2002 | | | 9 | | |
| 4/10/2002 | 8 | 31 | 8 | | |

| C-111 | S176 | S178 | S332D | | |
|---|---|---|---|---|---|
| 4/18/2002 | | | 7 | | |
| 4/24/2002 | 9 | | 8 | | |
| 5/2/2002 | | | 6 | | |
| 5/8/2002 | 5 | | 5 | | |
| 5/16/2002 | | | 17 | | |
| 5/22/2002 | 12 | 122 | 16 | | |
| 5/30/2002 | | | 14 | | |
| 6/5/2002 | | 43 | 11 | | |
| 6/13/2002 | | | 11 | | |
| 6/19/2002 | 8 | 40 | 9 | | |
| 6/26/2002 | | | 7 | | |
| 7/2/2002 | 7 | 19 | 6 | | |
| 7/11/2002 | | | 6 | | |
| 7/17/2002 | 5 | 27 | 6 | | |
| 7/24/2002 | | | 5 | | |
| 7/31/2002 | | | 6 | | |
| 8/7/2002 | | | 6 | | |
| 8/14/2002 | | | 8 | | |
| 8/21/2002 | | | 7 | | |
| 8/28/2002 | 9 | 25 | 7 | | |
| 9/4/2002 | | | 5 | | |
| 9/11/2002 | | | 5 | | |
| 9/18/2002 | | | 5 | | |
| 9/25/2002 | 6 | 11 | 6 | | |

## Table B.8.b. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb) - Continued

| C-111 (cont.) | S176 | S178 | S332D |
|---|---|---|---|
| 10/2/2002 | | | 6 |
| 10/9/2002 | | | 7 |
| 10/16/2002 | | | 7 |
| 10/23/2002 | 6 | 15 | 5 |
| 10/30/2002 | | | 5 |
| 11/6/2002 | | | 6 |
| 11/13/2002 | | | 7 |
| 11/20/2002 | 6 | 11 | 6 |
| 11/27/2002 | | | 5 |
| 12/4/2002 | | 19 | 4 |
| 12/11/2002 | | | 5 |
| 12/18/2002 | 5 | 6 | 5 |
| 12/26/2002 | | | 5 |
| 1/8/2003 | | | 5 |
| 1/15/2003 | 5 | 15 | 4 |
| 1/22/2003 | | | 5 |
| 1/29/2003 | | 19 | 7 |
| 2/10/2003 | | | 8 |
| 2/12/2003 | 7 | 28 | 7 |
| 2/19/2003 | | | 7 |
| 2/26/2003 | | | 7 |
| 3/5/2003 | | | 7 |
| 3/12/2003 | 6 | 34 | 10 |
| 3/20/2003 | | | 6 |

| C-111 (cont.) | S176 | S178 | S332D |
|---|---|---|---|
| 3/20/2003 | | | 6 |
| 3/26/2003 | | | 8 |
| 4/2/2003 | | | 7 |
| 4/9/2003 | | 22 | 7 |
| 4/16/2003 | | | 8 |
| 4/22/2003 | 7 | | 7 |
| 5/1/2003 | | | 6 |
| 5/6/2003 | | 20 | 6 |
| 5/14/2003 | | | 8 |
| 5/21/2003 | 8 | | 8 |
| 5/28/2003 | | | 7 |
| 6/4/2003 | 6 | | 6 |
| 6/11/2003 | | | 6 |
| 6/18/2003 | 7 | 15 | 6 |
| 6/25/2003 | | | 5 |
| 7/2/2003 | | | 6 |
| 7/9/2003 | | | 5 |
| 7/16/2003 | | 22 | 6 |
| 7/23/2003 | | | 6 |
| 7/30/2003 | 8 | | 8 |
| 8/6/2003 | | | 6 |
| 8/13/2003 | | 7 | 5 |
| 8/20/2003 | | | 5 |

| C-111 (cont.) | S176 | S178 | S332D |
|---|---|---|---|
| 8/27/2003 | 6 | | 5 |
| 9/3/2003 | | | 5 |
| 9/10/2003 | | | 5 |
| 9/17/2003 | | 17 | 4 |
| 9/24/2003 | 5 | 13 | 5 |
| 10/1/2003 | | 9 | 6 |
| 10/8/2003 | | 27 | 4 |
| 10/15/2003 | | 26 | 3 |
| 10/22/2003 | 5 | 26 | 5 |
| 10/29/2003 | | 24 | 7 |
| 11/5/2003 | | 145 | 6 |
| 11/12/2003 | | 14 | 5 |
| 11/19/2003 | 6 | 23 | 8 |
| 11/26/2003 | | 29 | 6 |
| 12/3/2003 | | 23 | 7 |
| 12/10/2003 | | 29 | 6 |
| 12/17/2003 | | 28 | 5 |
| 12/24/2003 | | 25 | |
| 12/29/2003 | 6 | 25 | 4 |
| 1/7/2004 | | 55 | 7 |
| 1/14/2004 | | 34 | 6 |
| 1/21/2004 | | 31 | 6 |
| 1/28/2004 | 6 | 43 | 6 |
| 2/4/2004 | | 11 | 6 |

| C-111 (cont.) | S176 | S178 | S332D |
|---|---|---|---|
| 2/11/2004 | | 23 | 6 |
| 2/19/2004 | | 31 | 22 |
| 2/25/2004 | 7 | 54 | 9 |
| 3/3/2004 | | 29 | 5 |
| 3/10/2004 | | 41 | 6 |
| 3/17/2004 | | 49 | |
| 3/24/2004 | 7 | 56 | 6 |
| 3/31/2004 | | 73 | |
| 4/7/2004 | 7 | 85 | 7 |
| 4/14/2004 | | 99 | |
| 4/21/2004 | 6 | 71 | 5 |
| 4/28/2004 | | 133 | |
| **Average** | **8** | **39** | **7** |
| **N** | 105 | 89 | 237 |
| **Water Years (May 1 to April 30)** | | | |
| **WY00** | **9** | **34** | **8** |
| **N** | 40 | 12 | 34 |
| **WY 01** | **9** | **44** | **8** |
| **N** | 23 | 12 | 52 |
| **WY 02** | **8** | **53** | **6** |
| **N** | 14 | 12 | 52 |
| **WY 03** | **7** | **29** | **7** |
| **N** | 14 | 16 | 51 |
| **WY 04** | **6** | **40** | **6** |

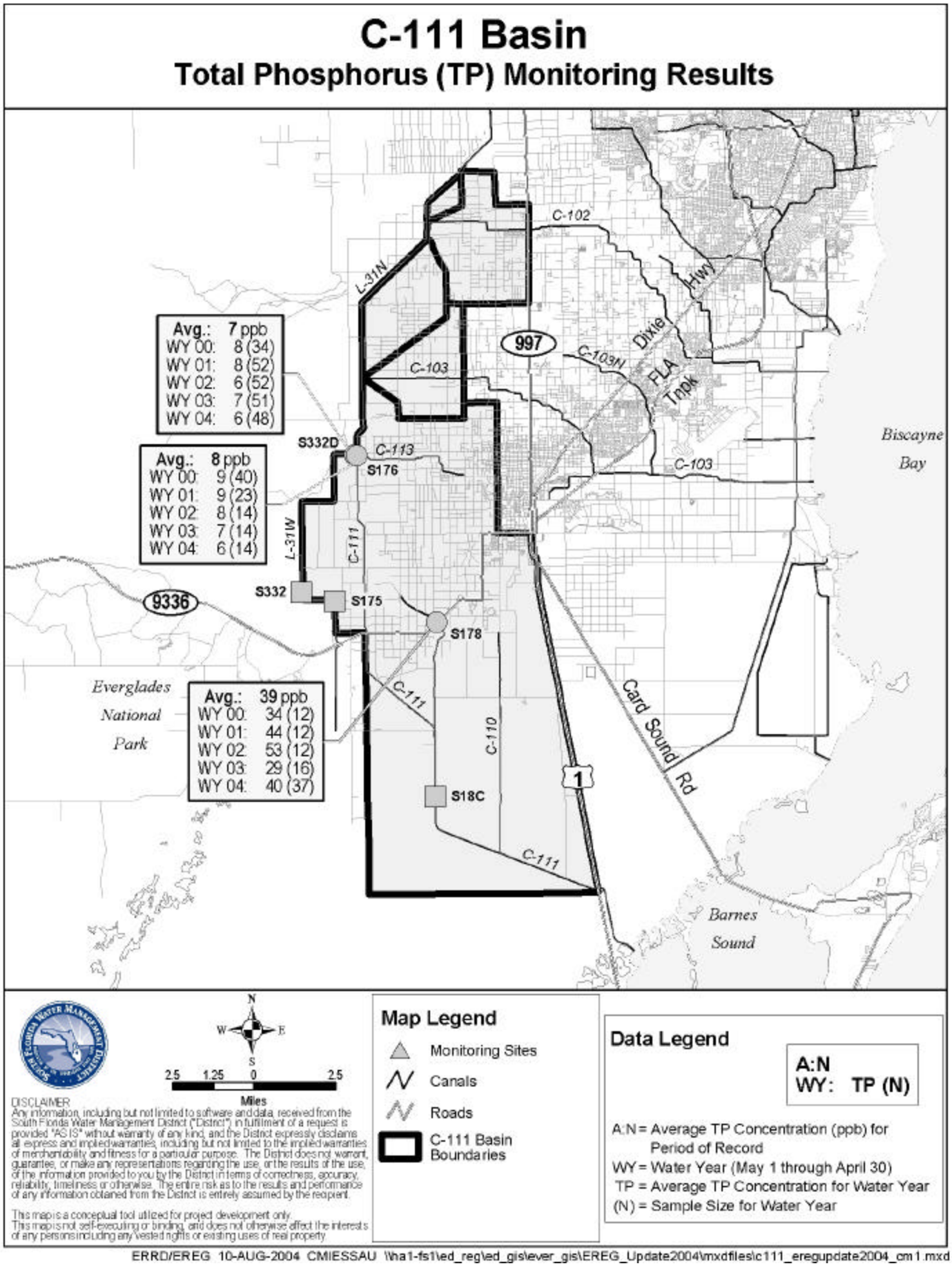



**Figure B.8. Upstream Monitoring Sites: Summary of Total Phosphorus Data (ppb)**