

**APPENDIX C: Impaired Waters Rule Criteria Summary Data (2004-2008)**

Total observations and violations of State water quality standards for open water strata



- part of stratum or site on the FDEP May 2009 verified list or both FDEP May 2009 verified list and the 303(d) list.



part of stratum or site on the 303(d) list.

Strata		Bottom DO	PH	TP	Chl-a annual	Turbidity	FC or Shellfish
E1	Violations	14	1	153	4	1	
	Total Obs	176	176	176	5	176	NC
E2	Violations	11	2	139	5	0	
	Total Obs	174	174	174	5	174	NC
E3	Violations	7	3	123	2	0	
	Total Obs	164	172	176	5	176	NC
E4	Violations	1	3	121	0	0	
	Total Obs	164	172	176	5	176	NC
E5	Violations	3	3	127	0	0	
	Total Obs	168	176	176	5	176	NC
E6	Violations	4	1	125	0	0	
	Total Obs	163	171	175	5	175	NC
E7	Violations	1	4	97	0	0	
	Total Obs	164	172	176	5	176	NC
RB	Violations	6	4	130	0	0	
	Total Obs	168	176	176	5	176	NC
W1	Violations	8	3	3	0	0	
	Total Obs	168	176	176	5	176	NC

Total observations and violations of State water quality standards for open water strata-cont

Strata		Bottom DO	PH	TP	Chl-a	Turbidity	FC or Shellfish
W2	Violations	4	7	1	0	0	
	Total Obs	168	171	175	5	175	NC
W3	Violations	6	0	6	0	1	
	Total Obs	168	172	176	5	176	NC
W4	Violations	7	0	20	0	0	
	Total Obs	162	170	174	5	174	NC
W5	Violations	52	3	134	4	0	
	Total Obs	158	174	174	5	174	NC
W6	Violations	1	1	11	0	0	
	Total Obs	164	172	176	5	175	NC
W7	Violations	4	2	6	0	0	
	Total Obs	164	176	176	5	176	NC
W8	Violations	4	7	11	0	0	
	Total Obs	164	176	176	5	176	NC

Open water strata Chl-a comparisons for strata E1 - E7 and W1 - W8 used annual means. Chl-a comparisons for strata E1-E7 were compared to TBEP Chl-a targets for Old Tampa Bay (9.3 g/L) and Middle Tampa Bay (8.5 g/L). Strata W1-W8 compared to the State of Florida's Chl-a standard of 11 g/L.

Stratum E1 does not meet FDEP DO standards north of Phillippe Point.

Stratum does not meet TBEP Chl-a targets..

Stratum E2 does not meet fecal coliform bacteria standards along Courtney Campbell Causeway beaches.

Total observations and violations of State water quality standards for fixed land sites

Land Sites		Bottom DO	PH	Cond.	Chl-a	TC	FC
01-01	Violations	9	0	41	0	0	1
	Total Obs	42	42	41	5	14	32
01-03	Violations	19	0	38	0	2	3
	Total Obs	43	43	42	5	14	33
02-07 (2003-06)	Violations	5	0	16	3	3	8
	Total Obs	23	23	22	3	13	14
02-09 (2007-08)	Violations	12	0	1	2	NC	4
	Total Obs	15	15	15	3	NC	14
04-02	Violations	11	11	0	1	2	2
	Total Obs	12	12	12	5	5	7
04-03	Violations	16	10	0	0	2	8
	Total Obs	26	28	28	5	11	21
05-05 (2004-06)	Violations	5	0	1	3	3	4
	Total Obs	8	9	9	3	4	5
05-07 (2007-08)	Violations	2	0	2	2	NC	2
	Total Obs	5	5	5	2	NC	5
06-03	Violations	1	0	0	0	5	12
	Total Obs	35	37	37	5	10	28
06-04	Violations	11	1	5	0	3	0
	Total Obs	33	35	34	5	14	27
08-03	Violations	0	4	1	0	14	31
	Total Obs	44	44	43	5	14	35

Total observations and violations of State water quality standards for fixed land sites-cont

Land Sites		Bottom DO	PH	Cond	Chl-a	TC	FC
09-03	Violations	2	0	1	0	10	25
	Total Obs	41	41	40	5	13	32
10-02	Violations	0	0	0	0	14	35
	Total Obs	44	44	43	5	14	35
11-05	Violations	1	0	2	0	11	25
	Total Obs	38	42	42	5	13	33
12-02	Violations	1	0	2	0	5	14
	Total Obs	27	30	30	5	9	25
12-03 (2004-06)	Violations	0	0	0	0	12	16
	Total Obs	24	27	27	3	14	18
12-04 (2006-08)	Violations	0	0	0	0	NC	8
	Total Obs	16	17	17	2	NC	17
13-02 (2004-06)	Violations	6	0	2	0	9	7
	Total Obs	21	24	24	3	12	15
13-05 (2007-08)	Violations	4	0	1	0	NC	4
	Total Obs	15	16	16	2	NC	16
14-02	Violations	1	0	0	0	2	2
	Total Obs	40	44	44	5	14	35
14-07	Violations	0	0	0	0	1	0
	Total Obs	40	44	44	5	14	35
14-09	Violations	1	0	0	1	NC	1
	Total Obs	8	8	8	2	NC	8
14-10	Violations	5	0	0	0	NC	0
	Total Obs	14	15	15	2	NC	15

Total observations and violations of State water quality standards for fixed land sites-cont

Land Sites		Bottom DO	PH	Cond	Chl-a	TC	FC
14-11	Violations	8	0	0	0	12	25
	Total Obs	38	42	42	5	13	33
14-12	Violations	0	0	0	0	NC	0
	Total Obs	3	3	3	1	NC	3
15-04	Violations	26	0	0	0	13	32
	Total Obs	40	42	41	5	14	34
17-01	Violations	0	0	0	0	13	29
	Total Obs	42	44	44	5	14	35
17-03	Violations	6	0	0	0	13	34
	Total Obs	42	44	44	5	14	35
18-03 (2004-06)	Violations	3	0	0	0	10	12
	Total Obs	22	24	23	3	12	15
18-06 (2007-08)	Violations	5	0	0	0	NC	7
	Total Obs	18	18	18	3	NC	18
19-02	Violations	19	0	44	2	3	3
	Total Obs	41	44	44	5	14	34
19-03	Violations	0	0	1	0	0	0
	Total Obs	1	1	1	1	0	0
19-07	Violations	0	1	0	0	7	5
	Total Obs	40	44	44	5	14	34
19-08	Violations	1	0	0	0	13	26
	Total Obs	39	43	43	5	13	34
19-09	Violations	4	0	3	0	10	27
	Total Obs	40	43	43	5	13	34

Total observations and violations of State water quality standards for fixed land sites-cont

Land Sites		Bottom DO	PH	Cond	Chl-a	TC	FC
19-10	Violations	13	0	2	0	12	29
	Total Obs	40	43	43	5	13	34
19-11	Violations	0	0	0	0	1	0
	Total Obs	7	7	7	2	1	1
22-01	Violations	15	0	14	0	7	16
	Total Obs	24	26	26	5	8	18
22-05	Violations	20	0	0	0	9	17
	Total Obs	38	40	40	5	14	31
22-07	Violations	26	0	0	0	6	11
	Total Obs	30	31	31	5	13	23
22-08	Violations	18	0	11	0	4	9
	Total Obs	37	39	39	5	14	30
22-12	Violations	2	0	0	0	NC	0
	Total Obs	2	2	2	1	NC	2
22-14	Violations	0	0	0	0	NC	1
	Total Obs	2	2	2	1	NC	2
22-15	Violations	2	0	0	0	NC	1
	Total Obs	2	2	2	1	NC	2
23-06	Violations	9	0	0	0	2	1
	Total Obs	15	16	16	5	6	13
23-07	Violations	10	0	2	0	3	5
	Total Obs	28	30	30	5	8	25
23-08	Violations	2	1	15	2	3	2
	Total Obs	34	35	35	5	12	27

Total observations and violations of State water quality standards for fixed land sites-cont

Land Sites		Bottom DO	PH	Cond	Chl-a	TC	FC
23-21	Violations	0	0	9	0	1	1
	Total Obs	8	9	9	3	3	3
23-22	Violations	0	0	8	0	0	1
	Total Obs	8	8	8	3	3	3
24-01	Violations	17	1	42	0	4	11
	Total Obs	41	43	42	5	14	35
24-02	Violations	14	1	39	0	3	12
	Total Obs	38	40	39	5	14	35
24-03	Violations	17	1	12	3	3	6
	Total Obs	27	28	27	5	11	21
25-02	Violations	3	1	0	3	0	1
	Total Obs	21	23	22	5	8	14
25-07	Violations	4	0	5	2	1	2
	Total Obs	23	26	25	5	7	18
27-03	Violations	18	0	0	0	3	3
	Total Obs	21	22	22	5	5	20
27-08	Violations	0	0	0	0	14	32
	Total Obs	39	43	43	5	14	35
27-09	Violations	2	2	0	0	13	29
	Total Obs	38	42	42	5	14	33
27-10	Violations	1	0	0	0	1	0
	Total Obs	23	23	23	5	5	18
32-03	Violations	0	0	8	0	0	0
	Total Obs	8	8	8	1	0	8

Total observations and violations of State water quality standards for fixed land sites-cont

Land Sites		Bottom DO	PH	Cond	Chl-a	TC	FC
35-01	Violations	1	0	0	0	0	3
	Total Obs	4	4	4	2	0	4
35-09	Violations	1	0	0	0	1	17
	Total Obs	41	43	42	5	14	35
35-10	Violations	4	2	0	0	8	16
	Total Obs	41	43	42	5	14	34
35-11	Violations	4	1	0	0	5	15
	Total Obs	41	43	42	5	14	35
35-12	Violations	3	2	0	0	9	22
	Total Obs	41	43	42	5	14	34
35-14	Violations	2	0	4	0	NC	6
	Total Obs	12	13	13	2	NC	12
39-02	Violations	7	0	0	0	NC	4
	Total Obs	8	8	8	1	NC	7
40-02	Violations	2	0	0	0	NC	4
	Total Obs	8	8	8	1	NC	7
44-02	Violations	0	0	8	0	NC	0
	Total Obs	8	8	8	1	NC	8
45-03	Violations	2	0	0	0	NC	5
	Total Obs	7	7	7	1	NC	7
46-03	Exceed	3	0	2	0	NC	2
	Obs	7	7	7	1	NC	6
48-03	Exceed	2	0	8	0	NC	0
	Obs	8	8	8	1	NC	8

Total observations and violations of State water quality standards for fixed land sites-cont

Land Sites		Bottom DO	PH	Cond	Chl-a	TC	FC
51-02	Violations	3	0	0	0	NC	4
	Total Obs	5	5	5	1	NC	5

Fixed land site Chl-a were compared to the State of Florida's Chl-a standard of 20 g/L.

Number of total observations and violations of State water quality standards for lakes

Lake		Bottom DO	PH	Cond	Chl-a *	TP	Turb
Lake Tarpon	Violations	31**	35	0	5**	0	0
	Total Obs	160	172	168	5	176	176
Lake Seminole SA	Violations	7	61	0	5**	41	4
	Total Obs	74	78	76	5	78	78
Lake Seminole SB	Violations	7	65	0	5**	19	3
	Total Obs	74	78	76	5	78	78

\* - used in TSI calculations

Number of total observations and violations of State water quality standards for bacteria on lakes

Lake		TC 1000	FC 400
Lake Tarpon	Violations	7	0
	Total Obs	51	140
Lake Seminole SA	Violations	2	2
	Total Obs	20	60
Lake Seminole SB	Violations	2	1
	Total Obs	20	60

NC = Not Collected