Appendix 3A-4: Water Year 2011 Total Phosphorus Concentrations at Individual Stations

Florida Department of Environmental Protection[1]

[1] Florida Department of Environmental Protection, Division of Environmental Assessment and Restoration, Environmental Assessment and Support Program, Tallahassee, FL

Table 1. Annual summary of total phosphorus concentrations [micrograms per liter (µg/L)] at the inflow, Rim Canal, interior marsh, and outflow monitoring stations in the Everglades Protection Area during Water Year 2011 (May 1, 2010–April 30, 2011).

Area	Class	Station	Count	Geometric Mean	Arithmetic Average	Standard Deviation	Min	25th Percentile	Median	75th Percentile	Max
ENP	Inflow	S12A	52	14.3	18.1	14.5	5.9	8.6	11.7	21.1	64.1
ENP	Inflow	S12B	16	6.7	6.9	2.2	5.0	5.3	6.0	7.8	13.0
ENP	Inflow	S12C	21	7.4	7.5	1.5	6.0	6.0	7.0	9.0	12.0
ENP	Inflow	S12D	32	8.8	8.9	1.5	6.0	8.0	9.0	9.8	13.0
ENP	Inflow	S18C	52	5.8	6.1	2.4	4.0	5.0	6.0	6.5	19.5
ENP	Inflow	S333	52	11.5	12.9	6.7	5.2	8.3	11.2	14.7	29.9
ENP	Inflow	S355A	12	12.2	17.3	18.6	6.0	6.5	9.5	16.0	62.0
ENP	Inflow	S355B	12	16.7	21.0	15.4	7.0	9.3	14.0	34.0	49.0
ENP	Inflow	US41-25	14	14.2	15.2	6.9	10.0	11.0	12.5	17.5	36.0
ENP	Interior	EP	9	2.4	2.4	0.5	2.0	2.0	2.0	3.0	3.0
ENP	Interior	NE1	10	3.8	4.0	1.4	2.0	3.0	4.0	5.0	7.0
ENP	Interior	NP201	10	3.8	5.2	5.9	2.0	2.8	3.0	4.5	21.0
ENP	Interior	P33	10	6.2	8.5	10.5	3.0	4.0	5.5	6.5	38.0
ENP	Interior	P34	8	5.3	12.0	23.1	2.0	3.0	4.0	5.8	69.0
ENP	Interior	P35	6	6.9	7.0	1.1	6.0	6.0	7.0	7.5	9.0
ENP	Interior	P36	10	4.9	5.1	1.6	3.0	3.8	5.0	6.3	8.0
ENP	Interior	P37	8	2.6	2.9	1.2	1.0	2.0	3.0	3.8	5.0
ENP	Interior	TSB	6	3.8	4.0	1.3	3.0	3.0	3.5	5.3	6.0
Refuge	Inflow	ENR012	52	24.4	25.2	7.2	15.5	21.0	24.0	27.4	60.0
Refuge	Inflow	G300	52	106.6	114.5	42.9	47.0	90.5	113.0	135.8	261.0
Refuge	Inflow	G301	52	110.9	117.8	40.3	50.0	97.5	112.5	142.3	226.0
Refuge	Inflow	G310	52	22.9	23.5	6.3	16.0	19.0	22.0	25.9	47.0
Refuge	Inflow	S362	52	19.9	21.2	8.7	11.5	15.1	19.0	24.4	58.0
Refuge	Interior	LOX10	8	5.7	5.8	1.0	4.0	5.0	6.0	6.8	7.0
Refuge	Interior	LOX11	12	6.0	6.3	2.0	3.0	5.0	6.0	7.0	10.0
Refuge	Interior	LOX12	12	6.4	6.5	1.0	5.0	6.0	6.5	7.0	8.0
Refuge	Interior	LOX13	11	5.8	5.9	1.1	4.0	5.0	6.0	7.0	7.0
Refuge	Interior	LOX14	12	6.0	6.3	2.2	4.0	5.0	6.0	7.0	12.0
Refuge	Interior	LOX15	12	6.1	6.3	1.8	4.0	4.3	7.0	7.0	10.0
Refuge	Interior	LOX16	12	7.3	7.7	2.3	4.0	6.3	7.0	9.5	12.0
Refuge	Interior	LOX3	7	6.3	6.6	2.1	4.0	5.0	6.0	9.0	9.0
Refuge	Interior	LOX4	8	9.5	9.9	3.1	7.0	8.0	9.0	10.8	17.0
Refuge	Interior	LOX5	7	7.0	7.4	3.2	5.0	5.0	6.0	9.0	14.0
Refuge	Interior	LOX6	10	5.8	6.0	1.7	3.0	5.0	6.0	7.3	9.0
Refuge	Interior	LOX7	10	6.3	6.4	1.2	4.0	5.8	7.0	7.0	8.0
Refuge	Interior	LOX8	11	8.2	10.7	12.4	5.0	6.0	7.0	8.0	48.0

Table 1. Continued.

Area	Class	Station	Count	Geometric Mean	Arithmetic Average	Standard Deviation	Min	25th Percentile	Median	75th Percentile	Max
Refuge	Interior	LOX9	8	5.1	5.1	0.6	4.0	5.0	5.0	5.8	6.0
Refuge	Interior	LOXA101	6	11.1	11.3	2.4	7.0	9.3	12.5	13.0	13.0
Refuge	Interior	LOXA105	9	13.1	13.9	4.9	7.0	10.5	14.0	16.5	24.0
Refuge	Interior	LOXA106	7	8.5	8.9	2.7	5.0	7.0	9.0	9.0	14.0
Refuge	Interior	LOXA107	4	7.0	8.3	5.5	3.0	4.0	7.0	13.8	16.0
Refuge	Interior	LOXA108	7	6.4	6.9	2.7	3.0	5.0	8.0	8.0	11.0
Refuge	Interior	LOXA124	10	9.8	10.4	3.3	5.0	6.8	12.0	12.3	15.0
Refuge	Interior	LOXA130	10	10.3	10.6	2.7	6.0	9.5	10.5	11.5	16.0
Refuge	Interior	LOXA136	8	15.4	16.9	6.4	5.0	13.5	17.0	20.8	27.0
Refuge	Interior	LOXA137	10	10.8	12.0	6.7	4.0	9.8	11.0	12.0	30.0
Refuge	Interior	LOXA138	8	6.4	6.8	2.1	4.0	4.3	7.5	8.8	9.0
Refuge	Interior	LOXA139	8	6.5	6.8	1.8	4.0	5.3	6.5	8.8	9.0
Refuge	Interior	LOXA140	7	8.9	9.1	2.3	6.0	6.0	10.0	11.0	12.0
Refuge	Interior	X1	11	26.7	32.4	24.9	12.0	15.0	26.0	32.0	98.0
Refuge	Interior	X4	11	10.2	10.6	3.3	6.0	8.0	10.0	13.0	17.0
Refuge	Interior	Z1	12	32.8	39.4	27.3	13.0	19.8	31.5	45.5	99.0
Refuge	Outflow	G94B	13	27.7	29.8	11.5	12.0	21.0	29.0	38.0	56.0
Refuge	Outflow	S10A	12	13.7	14.5	6.0	9.0	11.0	12.5	15.8	31.0
Refuge	Outflow	S10C	13	15.4	15.8	4.0	10.0	12.0	15.0	19.5	22.0
Refuge	Outflow	S10D	14	19.8	20.8	6.8	12.0	15.0	18.5	27.0	33.0
Refuge	Outflow	S39	23	15.0	16.0	6.5	10.0	11.0	15.0	17.0	40.0
Refuge	Rim	LOXA104	12	24.4	25.9	9.4	15.0	17.5	23.5	32.8	43.0
Refuge	Rim	LOXA135	12	34.3	38.5	18.7	15.0	21.5	30.0	57.3	68.0
WCA-2	Inflow	G335	51	12.8	13.2	3.9	8.0	11.0	12.0	15.5	25.0
WCA-2	Inflow	S10A	12	13.7	14.5	6.0	9.0	11.0	12.5	15.8	31.0
WCA-2	Inflow	S10C	13	15.4	15.8	4.0	10.0	12.0	15.0	19.5	22.0
WCA-2	Inflow	S10D	14	19.8	20.8	6.8	12.0	15.0	18.5	27.0	33.0
WCA-2	Inflow	S7	48	14.2	14.7	3.9	8.0	12.0	14.0	17.0	25.5
WCA-2	Interior	404C2	4	6.7	6.8	1.0	6.0	6.0	6.5	7.8	8.0
WCA-2	Interior	404Z1	9	20.6	21.4	6.2	12.0	17.0	20.0	28.5	30.0
WCA-2	Interior	CA217	11	5.1	5.3	1.2	3.0	5.0	5.0	6.0	7.0
WCA-2	Interior	CA222	9	4.4	4.6	1.1	3.0	4.0	4.0	6.0	6.0
WCA-2	Interior	CA223	7	17.2	17.4	3.1	13.0	15.0	17.0	20.0	22.0
WCA-2	Interior	CA224	8	6.2	6.3	1.0	5.0	5.3	6.0	7.0	8.0
WCA-2	Interior	CA26	8	4.5	4.6	1.1	4.0	4.0	4.0	5.0	7.0
WCA-2	Interior	CA27	7	7.4	7.6	1.8	6.0	6.0	7.0	10.0	10.0
WCA-2	Interior	CA28	9	26.5	50.6	86.2	14.0	15.0	16.0	40.5	278.0

Table 1. Continued.

Area	Class	Station	Count	Geometric Mean	Arithmetic Average	Standard Deviation	Min	25th Percentile	Median	75th Percentile	Max
WCA-2	Interior	CA29	9	4.9	5.0	1.1	4.0	4.0	5.0	6.0	7.0
WCA-2	Interior	E5	10	4.6	4.6	0.7	4.0	4.0	4.5	5.0	6.0
WCA-2	Interior	F1	10	19.1	19.3	2.7	15.0	16.0	20.5	21.3	22.0
WCA-2	Interior	F2	8	19.0	19.1	2.6	16.0	17.0	19.0	20.8	24.0
WCA-2	Interior	F3	7	14.5	14.6	1.5	12.0	13.0	15.0	16.0	16.0
WCA-2	Interior	F4	8	9.1	9.4	2.2	6.0	8.3	9.0	11.3	13.0
WCA-2	Interior	F5	9	5.5	5.7	1.5	4.0	4.0	6.0	7.0	8.0
WCA-2	Interior	N1	7	16.9	17.6	5.7	12.0	14.0	16.0	21.0	29.0
WCA-2	Interior	S145	17	8.4	8.6	2.3	5.0	7.0	8.0	10.5	13.0
WCA-2	Interior	U1	11	5.4	5.5	1.3	4.0	5.0	5.0	7.0	8.0
WCA-2	Interior	U3	10	4.3	4.4	1.2	3.0	3.8	4.0	5.0	7.0
WCA-2	Outflow	S11A	11	12.9	13.4	3.3	7.0	10.0	14.0	16.0	18.0
WCA-2	Outflow	S11B	9	13.7	14.0	3.3	10.0	11.0	14.0	16.5	20.0
WCA-2	Outflow	S11C	5	14.9	15.4	4.4	11.0	11.0	16.0	19.5	21.0
WCA-2	Outflow	S34	18	12.5	12.8	3.0	7.0	10.8	12.5	15.3	18.0
WCA-2	Outflow	S38	25	9.6	11.2	7.6	4.0	7.0	9.0	12.0	34.0
WCA-3	Inflow	C123SR84	12	17.9	26.3	27.7	7.0	10.3	12.0	40.5	94.0
WCA-3	Inflow	G123	12	13.5	14.3	5.5	8.0	10.5	13.5	15.0	27.0
WCA-3	Inflow	G204	3	58.6	78.3	72.4	26.0	26.0	48.0	161.0	161.0
WCA-3	Inflow	G205	3	62.9	63.3	9.0	54.0	54.0	64.0	72.0	72.0
WCA-3	Inflow	G206	3	20.7	22.3	9.6	12.0	12.0	24.0	31.0	31.0
WCA-3	Inflow	L3BRS	52	24.5	25.6	7.6	13.0	20.0	25.0	29.8	55.0
WCA-3	Inflow	S11A	11	12.9	13.4	3.3	7.0	10.0	14.0	16.0	18.0
WCA-3	Inflow	S11B	9	13.7	14.0	3.3	10.0	11.0	14.0	16.5	20.0
WCA-3	Inflow	S11C	5	14.9	15.4	4.4	11.0	11.0	16.0	19.5	21.0
WCA-3	Inflow	S140	52	32.1	33.9	11.2	16.0	26.4	33.0	38.4	65.0
WCA-3	Inflow	S142	13	18.9	20.1	8.1	13.0	14.0	17.0	24.5	39.0
WCA-3	Inflow	S150	36	15.8	16.3	3.8	10.0	13.0	15.5	19.8	26.0
WCA-3	Inflow	S151	19	12.1	12.7	4.9	9.0	10.0	11.0	14.0	29.0
WCA-3	Inflow	S190	52	26.4	30.0	15.8	11.0	17.3	25.5	41.9	83.0
WCA-3	Inflow	S8	52	16.4	18.3	11.5	8.0	12.6	15.8	19.0	81.0
WCA-3	Inflow	S9	52	11.6	11.8	2.2	8.0	10.5	11.0	12.5	19.0
WCA-3	Interior	3ASMESO	9	3.5	3.6	0.5	3.0	3.0	4.0	4.0	4.0
WCA-3	Interior	CA311	10	4.3	4.5	1.4	2.0	3.8	4.5	5.3	7.0
WCA-3	Interior	CA314	10	4.0	4.1	0.9	3.0	3.8	4.0	4.3	6.0
WCA-3	Interior	CA315	11	4.3	4.8	3.4	3.0	3.0	4.0	4.0	15.0
WCA-3	Interior	CA316	10	6.0	6.2	1.9	4.0	5.0	6.0	7.0	11.0

Table 1. Continued.

Area	Class	Station	Count	Geometric Mean	Arithmetic Average	Standard Deviation	Min	25th Percentile	Median	75th Percentile	Max
WCA-3	Interior	CA317	12	5.0	5.3	2.1	3.0	4.0	5.0	5.8	10.0
WCA-3	Interior	CA318	11	6.3	6.4	1.2	4.0	6.0	6.0	7.0	8.0
WCA-3	Interior	CA319	10	4.4	4.5	1.0	3.0	4.0	4.0	5.3	6.0
WCA-3	Interior	CA32	7	4.8	5.0	1.5	3.0	3.0	5.0	6.0	7.0
WCA-3	Interior	CA324	4	10.4	11.8	7.5	7.0	7.3	8.5	19.5	23.0
WCA-3	Interior	CA325	6	4.6	4.7	0.8	4.0	4.0	4.5	5.3	6.0
WCA-3	Interior	CA33	7	7.5	8.3	4.5	5.0	5.0	7.0	9.0	18.0
WCA-3	Interior	CA34	8	5.4	5.5	0.9	4.0	5.0	5.5	6.0	7.0
WCA-3	Interior	CA35	6	5.6	5.7	0.8	5.0	5.0	5.5	6.3	7.0
WCA-3	Interior	CA36	9	22.0	25.4	15.8	13.0	13.5	18.0	36.5	59.0
WCA-3	Interior	CA38	8	3.5	3.6	0.9	3.0	3.0	3.0	4.8	5.0
WCA-3	Interior	CA39	8	4.3	4.4	0.7	4.0	4.0	4.0	4.8	6.0
WCA-3	Interior	CA3B1	9	3.2	3.3	0.9	2.0	3.0	3.0	4.0	5.0
WCA-3	Interior	CA3B2	10	3.3	3.5	1.2	2.0	2.8	3.0	5.0	5.0
WCA-3	Interior	S345B6	10	3.0	3.1	0.7	2.0	2.8	3.0	4.0	4.0
WCA-3	Outflow	S12A	52	14.3	18.1	14.5	5.9	8.6	11.7	21.1	64.1
WCA-3	Outflow	S12B	16	6.7	6.9	2.2	5.0	5.3	6.0	7.8	13.0
WCA-3	Outflow	S12C	21	7.4	7.5	1.5	6.0	6.0	7.0	9.0	12.0
WCA-3	Outflow	S12D	32	8.8	8.9	1.5	6.0	8.0	9.0	9.8	13.0
WCA-3	Outflow	S197	6	4.8	5.0	1.4	3.0	3.8	5.0	6.3	7.0
WCA-3	Outflow	S31	17	9.8	10.0	2.1	7.0	8.0	10.0	11.5	14.0
WCA-3	Outflow	S333	52	11.5	12.9	6.7	5.2	8.3	11.2	14.7	29.9
WCA-3	Outflow	S344	4	24.1	31.8	27.7	9.0	11.8	23.0	60.5	72.0
WCA-3	Outflow	S355A	12	12.2	17.3	18.6	6.0	6.5	9.5	16.0	62.0
WCA-3	Outflow	S355B	12	16.7	21.0	15.4	7.0	9.3	14.0	34.0	49.0
WCA-3	Outflow	US41-25	14	14.2	15.2	6.9	10.0	11.0	12.5	17.5	36.0
WCA-3	Interior	CA317	12	5.0	5.3	2.1	3.0	4.0	5.0	5.8	10.0
WCA-3	Interior	CA318	11	6.3	6.4	1.2	4.0	6.0	6.0	7.0	8.0
WCA-3	Interior	CA319	10	4.4	4.5	1.0	3.0	4.0	4.0	5.3	6.0
WCA-3	Interior	CA32	7	4.8	5.0	1.5	3.0	3.0	5.0	6.0	7.0
WCA-3	Interior	CA324	4	10.4	11.8	7.5	7.0	7.3	8.5	19.5	23.0
WCA-3	Interior	CA325	6	4.6	4.7	0.8	4.0	4.0	4.5	5.3	6.0
WCA-3	Interior	CA33	7	7.5	8.3	4.5	5.0	5.0	7.0	9.0	18.0
WCA-3	Interior	CA34	8	5.4	5.5	0.9	4.0	5.0	5.5	6.0	7.0
WCA-3	Interior	CA35	6	5.6	5.7	0.8	5.0	5.0	5.5	6.3	7.0
WCA-3	Interior	CA36	9	22.0	25.4	15.8	13.0	13.5	18.0	36.5	59.0