

Appendix 3A-4: Water Year 2012 Total Phosphorus Concentrations at Individual Stations

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Table 1 within this appendix provides statistical summaries of total phosphorous for each station during Water Year 2012 (WY2012) (May 1, 2011-April 30, 2012) within the Everglades Protection Area (EPA) and Everglades National Park (ENP). The EPA includes Arthur R. Marshall Loxahatchee National Wildlife Refuge [Refuge, also known as Water Conservation Area 1 (WCA-1)], and Water Conservation Areas 2 and 3 (WCA-2 and WCA-3, respectively). Area and class of each station is identified.

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Table 1. Annual summary of total phosphorus concentrations [micrograms per liter ($\mu\text{g/L}$)] at the inflow, Rim Canal, interior marsh, and outflow monitoring stations in the Everglades Protection Area during Water Year 2012 (May 1, 2011–April 30, 2012).

Area	Class	Station	Count	Geometric Mean	Arithmetic Mean	Standard Deviation	Min.	25th Percentile	Median	75th Percentile	Max.
Refuge	Inflow	ENR012	51	22.5	23.3	6.0	12.5	18.0	23.0	27.0	37.0
Refuge	Inflow	G300	51	111.6	115.1	29.4	59.0	95.0	115.0	135.0	233.0
Refuge	Inflow	G301	51	96.1	101.3	32.8	34.0	80.0	97.0	125.0	201.0
Refuge	Inflow	G310	51	18.8	19.2	4.3	14.0	16.0	18.0	20.0	31.0
Refuge	Outflow	G94B	14	27.5	32.1	18.2	13.0	16.8	22.0	49.8	63.0
Refuge	Inflow	G94D	1	74.0	74.0	0.0	74.0	0.0	74.0	0.0	74.0
Refuge	Interior	LOX10	5	9.3	9.4	1.3	8.0	8.0	10.0	10.5	11.0
Refuge	Interior	LOX11	9	7.4	7.4	0.9	6.0	7.0	7.0	8.0	9.0
Refuge	Interior	LOX12	10	8.1	8.8	4.4	5.0	6.0	7.5	11.0	20.0
Refuge	Interior	LOX13	6	7.1	7.2	1.2	6.0	6.0	7.0	8.3	9.0
Refuge	Interior	LOX14	9	7.3	7.6	2.6	6.0	6.0	7.0	8.0	14.0
Refuge	Interior	LOX15	10	7.0	7.9	5.4	5.0	5.0	6.0	8.0	23.0
Refuge	Interior	LOX16	9	8.2	8.4	2.5	6.0	7.0	7.0	10.5	13.0
Refuge	Interior	LOX3	2	5.9	6.0	1.4	5.0	0.0	6.0	0.0	7.0
Refuge	Interior	LOX4	8	12.1	13.5	7.5	6.0	9.3	11.0	16.8	30.0
Refuge	Interior	LOX5	3	7.2	7.3	1.5	6.0	6.0	7.0	9.0	9.0
Refuge	Interior	LOX6	9	6.2	6.6	2.6	5.0	5.0	5.0	8.0	12.0
Refuge	Interior	LOX7	9	8.0	8.4	2.8	5.0	6.0	8.0	11.0	13.0
Refuge	Interior	LOX8	8	10.4	10.8	3.0	8.0	8.5	10.0	12.3	17.0
Refuge	Interior	LOX9	5	6.7	7.4	3.4	3.0	4.5	7.0	10.5	12.0
Refuge	Interior	LOXA101	4	14.3	14.8	3.9	9.0	10.8	16.0	17.5	18.0
Refuge	Rim	LOXA104	10	22.7	22.9	3.7	19.0	19.8	22.0	26.3	30.0
Refuge	Interior	LOXA105	7	17.5	18.1	5.5	12.0	14.0	16.0	25.0	26.0
Refuge	Interior	LOXA106	5	13.8	14.2	3.9	10.0	11.0	13.0	18.0	20.0
Refuge	Interior	LOXA107	2	13.3	13.5	3.5	11.0	0.0	13.5	0.0	16.0
Refuge	Interior	LOXA108	4	7.7	8.5	5.0	6.0	6.0	6.0	13.5	16.0
Refuge	Interior	LOXA124	8	10.9	12.1	6.7	7.0	7.3	10.0	14.5	27.0
Refuge	Interior	LOXA130	8	13.0	14.3	7.2	8.0	8.5	13.0	17.0	30.0
Refuge	Rim	LOXA135	11	26.3	28.6	12.8	14.0	20.0	25.0	36.0	57.0
Refuge	Interior	LOXA136	7	19.8	23.0	14.9	10.0	13.0	17.0	34.0	52.0
Refuge	Interior	LOXA137	6	14.7	15.8	6.7	8.0	10.3	14.5	22.3	26.0
Refuge	Interior	LOXA138	5	7.7	7.8	1.3	6.0	6.5	8.0	9.0	9.0

Area	Class	Station	Count	Geometric Mean	Arithmetic Mean	Standard Deviation	Min.	25th Percentile	Median	75th Percentile	Max.
Refuge	Interior	LOXA139	5	8.3	9.0	4.6	6.0	6.0	8.0	12.5	17.0
Refuge	Interior	LOXA140	4	12.6	13.0	3.8	10.0	10.0	12.0	17.0	18.0
Refuge	Outflow	S10A	12	14.5	15.1	4.3	10.0	11.3	14.5	18.5	24.0
Refuge	Outflow	S10C	12	15.1	15.7	4.4	10.0	12.0	15.5	18.8	23.0
Refuge	Outflow	S10D	12	18.4	19.8	7.8	11.0	13.0	19.0	26.0	34.0
Refuge	Inflow	S362	51	23.3	24.0	6.3	15.0	19.0	23.0	27.0	38.5
Refuge	Outflow	S39	20	16.6	17.8	7.0	10.0	12.0	15.5	22.5	32.0
Refuge	Interior	X1	8	38.0	42.8	26.2	22.0	25.5	35.5	45.8	104.0
Refuge	Interior	X4	9	9.1	9.3	2.4	7.0	7.0	9.0	11.0	14.0
Refuge	Interior	Z1	7	49.3	67.0	59.5	22.0	25.0	41.0	145.0	161.0
WCA2	Interior	404C2	8	7.4	7.6	2.1	5.0	6.3	7.5	8.0	12.0
WCA2	Interior	404Z1	8	15.0	16.0	6.3	9.0	11.3	13.0	22.0	26.0
WCA2	Interior	CA217	9	5.4	5.4	0.7	5.0	5.0	5.0	6.0	7.0
WCA2	Interior	CA222	8	4.4	4.5	0.8	4.0	4.0	4.0	5.0	6.0
WCA2	Interior	CA223	5	40.7	56.0	56.3	20.0	21.0	31.0	103.5	154.0
WCA2	Interior	CA224	8	6.7	6.9	1.6	5.0	5.3	6.5	8.8	9.0
WCA2	Interior	CA26	9	4.3	4.3	0.9	3.0	4.0	4.0	5.0	6.0
WCA2	Interior	CA27	9	6.9	7.2	2.4	5.0	5.5	6.0	9.0	12.0
WCA2	Interior	CA28	9	19.1	22.3	14.2	11.0	11.5	14.0	32.5	52.0
WCA2	Interior	CA29	10	5.4	5.8	2.2	3.0	4.0	5.0	8.0	10.0
WCA2	Interior	E5	9	5.8	5.9	1.3	5.0	5.0	6.0	6.0	9.0
WCA2	Interior	F1	8	23.4	24.8	8.7	14.0	17.3	21.5	34.5	36.0
WCA2	Interior	F2	9	18.0	19.4	8.6	10.0	13.0	19.0	22.5	39.0
WCA2	Interior	F3	8	14.6	15.3	4.6	9.0	12.0	14.0	20.0	21.0
WCA2	Interior	F4	10	10.1	10.5	3.0	7.0	7.8	10.5	11.5	17.0
WCA2	Interior	F5	9	5.5	5.7	1.4	4.0	4.5	5.0	7.0	8.0
WCA2	Inflow	G335	50	11.6	11.9	2.7	9.0	10.0	11.0	13.1	21.5
WCA2	Interior	N1	10	13.6	14.7	7.3	9.0	10.5	13.0	16.0	34.0
WCA2	Inflow	S10A	12	14.5	15.1	4.3	10.0	11.3	14.5	18.5	24.0
WCA2	Inflow	S10C	12	15.1	15.7	4.4	10.0	12.0	15.5	18.8	23.0
WCA2	Inflow	S10D	12	18.4	19.8	7.8	11.0	13.0	19.0	26.0	34.0
WCA2	Outflow	S11A	13	13.5	15.3	9.0	7.0	9.0	12.0	19.0	37.0
WCA2	Outflow	S11B	3	9.0	9.0	1.0	8.0	8.0	9.0	10.0	10.0
WCA2	Outflow	S11C	19	13.3	15.8	11.6	7.0	8.0	11.0	17.0	52.0
WCA2	Interior	S145	19	9.9	11.1	6.0	6.0	7.0	8.0	15.0	25.0
WCA2	Outflow	S34	18	14.2	15.3	5.2	4.0	11.8	15.0	20.3	24.0

Area	Class	Station	Count	Geometric Mean	Arithmetic Mean	Standard Deviation	Min.	25th Percentile	Median	75th Percentile	Max.
WCA2	Outflow	S38	25	15.7	17.9	9.6	7.0	10.0	13.0	27.5	39.0
WCA2	Inflow	S7	46	19.9	24.1	18.5	10.0	13.4	16.5	28.9	105.5
WCA2	Interior	U1	10	7.2	8.3	6.1	5.0	5.0	6.5	8.5	25.0
WCA2	Interior	U3	9	4.9	5.0	1.3	4.0	4.0	5.0	5.5	8.0
WCA3	Interior	3ASMESO	9	5.3	5.9	3.1	3.0	3.5	5.0	7.0	13.0
WCA3	Inflow	C123SR84	11	20.5	23.6	12.6	10.0	12.0	25.0	34.0	44.0
WCA3	Interior	CA311	8	4.8	5.1	2.2	3.0	4.0	4.0	7.3	9.0
WCA3	Interior	CA314	10	6.4	7.5	5.9	4.0	5.0	5.5	6.8	24.0
WCA3	Interior	CA315	9	5.3	5.9	3.3	3.0	4.0	5.0	6.5	14.0
WCA3	Interior	CA316	8	6.9	7.1	1.8	4.0	5.5	7.5	8.8	9.0
WCA3	Interior	CA317	9	6.0	6.6	3.0	3.0	4.0	7.0	7.5	13.0
WCA3	Interior	CA318	8	11.4	12.0	4.0	7.0	9.0	10.5	16.8	17.0
WCA3	Interior	CA319	10	5.8	6.1	2.0	4.0	4.0	6.0	7.3	10.0
WCA3	Interior	CA32	8	5.0	5.1	1.2	4.0	4.0	5.0	6.5	7.0
WCA3	Interior	CA324	5	9.7	9.8	1.8	7.0	8.0	11.0	11.0	11.0
WCA3	Interior	CA325	8	3.8	4.1	2.0	2.0	3.0	3.0	6.5	7.0
WCA3	Interior	CA33	5	8.0	8.2	2.3	6.0	6.5	8.0	10.0	12.0
WCA3	Interior	CA34	7	6.4	6.6	1.8	5.0	5.0	6.0	9.0	9.0
WCA3	Interior	CA35	3	5.9	6.0	1.0	5.0	5.0	6.0	7.0	7.0
WCA3	Interior	CA36	6	30.9	36.2	22.0	14.0	17.8	30.0	57.5	71.0
WCA3	Interior	CA38	6	3.8	4.0	1.3	2.0	2.8	4.5	5.0	5.0
WCA3	Interior	CA39	10	6.1	6.4	2.4	5.0	5.0	6.0	6.3	13.0
WCA3	Interior	CA3B1	7	3.1	3.3	1.3	2.0	2.0	3.0	5.0	5.0
WCA3	Interior	CA3B2	8	7.7	8.1	3.0	5.0	5.3	8.0	9.8	14.0
WCA3	Inflow	G123	11	15.8	18.8	14.0	10.0	10.0	13.0	20.0	55.0
WCA3	Inflow	G204	4	82.8	106.0	79.3	32.0	37.5	93.0	187.5	206.0
WCA3	Inflow	G205	4	45.8	53.8	39.6	30.0	31.5	36.0	93.8	113.0
WCA3	Inflow	G206	3	24.9	28.7	17.0	12.0	12.0	28.0	46.0	46.0
WCA3	Inflow	L3BRS	50	32.4	46.2	61.2	16.0	21.8	29.0	34.0	277.0
WCA3	Inflow	S11A	13	13.5	15.3	9.0	7.0	9.0	12.0	19.0	37.0
WCA3	Inflow	S11B	3	9.0	9.0	1.0	8.0	8.0	9.0	10.0	10.0
WCA3	Inflow	S11C	19	13.3	15.8	11.6	7.0	8.0	11.0	17.0	52.0
WCA3	Outflow	S12A	49	22.9	27.6	18.6	11.1	14.2	19.6	35.3	74.3
WCA3	Outflow	S12B	8	8.8	9.0	2.2	7.0	8.0	8.0	11.0	13.0
WCA3	Outflow	S12C	12	6.3	6.5	1.7	4.0	5.3	6.0	7.0	10.0
WCA3	Outflow	S12D	31	10.1	10.8	4.4	7.0	8.0	9.0	13.0	28.0

Area	Class	Station	Count	Geometric Mean	Arithmetic Mean	Standard Deviation	Min.	25th Percentile	Median	75th Percentile	Max.
WCA3	Inflow	S140	52	42.6	45.5	20.3	30.0	32.6	38.5	48.0	117.5
WCA3	Inflow	S142	12	17.5	19.0	8.0	9.0	12.3	17.0	24.8	32.0
WCA3	Inflow	S150	33	18.2	20.9	13.2	7.0	13.0	17.0	22.0	64.0
WCA3	Inflow	S151	14	13.9	16.2	11.0	7.0	9.0	12.5	17.5	43.0
WCA3	Inflow	S190	50	28.9	31.0	11.8	12.0	22.0	29.0	40.3	67.0
WCA3	Outflow	S197	4	4.1	4.3	1.3	3.0	3.3	4.0	5.5	6.0
WCA3	Outflow	S31	12	9.7	10.3	4.2	6.0	7.0	10.0	11.8	21.0
WCA3	Outflow	S333	49	15.0	17.0	9.5	7.7	10.1	13.8	20.6	43.0
WCA3	Outflow	S344	4	31.4	41.5	28.3	8.0	13.5	43.0	68.0	72.0
WCA3	Interior	S345B6	9	7.6	7.9	2.4	5.0	6.0	7.0	10.0	12.0
WCA3	Outflow	S355A	11	17.7	20.0	10.1	9.0	11.0	19.0	25.0	38.0
WCA3	Outflow	S355B	11	22.5	29.0	19.7	6.0	13.0	25.0	53.0	58.0
WCA3	Inflow	S8	50	18.1	21.2	15.7	10.0	13.0	15.8	23.5	91.0
WCA3	Inflow	S9	51	12.3	13.0	5.9	8.0	10.0	11.5	14.0	49.0
WCA3	Outflow	US41-25	16	18.0	23.8	29.2	11.0	12.0	14.0	21.8	131.0
ENP	Interior	EP	8	2.7	3.0	1.6	2.0	2.0	2.0	4.5	6.0
ENP	Interior	NE1	9	5.2	5.6	2.2	3.0	4.0	5.0	7.0	10.0
ENP	Interior	NP201	9	5.6	22.1	54.7	3.0	3.0	3.0	6.0	168.0
ENP	Interior	P33	10	5.4	5.7	2.2	4.0	4.0	5.0	7.0	11.0
ENP	Interior	P34	8	4.1	4.4	1.6	3.0	3.0	4.0	5.8	7.0
ENP	Interior	P35	8	5.4	6.0	3.7	4.0	4.0	4.5	6.0	15.0
ENP	Interior	P36	9	5.1	5.4	2.6	4.0	4.0	5.0	5.5	12.0
ENP	Interior	P37	6	1.9	2.2	1.0	1.0	1.0	2.5	3.0	3.0
ENP	Inflow	S12A	49	22.9	27.6	18.6	11.1	14.2	19.6	35.3	74.3
ENP	Inflow	S12B	8	8.8	9.0	2.2	7.0	8.0	8.0	11.0	13.0
ENP	Inflow	S12C	12	6.3	6.5	1.7	4.0	5.3	6.0	7.0	10.0
ENP	Inflow	S12D	31	10.1	10.8	4.4	7.0	8.0	9.0	13.0	28.0
ENP	Inflow	S18C	49	5.9	6.6	3.5	3.0	4.0	5.5	8.0	20.0
ENP	Inflow	S333	49	15.0	17.0	9.5	7.7	10.1	13.8	20.6	43.0
ENP	Inflow	S355A	11	17.7	20.0	10.1	9.0	11.0	19.0	25.0	38.0
ENP	Inflow	S355B	11	22.5	29.0	19.7	6.0	13.0	25.0	53.0	58.0
ENP	Interior	TSB	5	3.5	3.6	0.9	3.0	3.0	3.0	4.5	5.0
ENP	Inflow	US41-25	16	18.0	23.8	29.2	11.0	12.0	14.0	21.8	131.0