

Appendix 3C-3: Annual Phosphorus Criteria Compliance Assessment for Water Year 2006

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Table 1. Annual phosphorus criteria compliance assessment for water year 2006.

Area	Network	Water Year	Station	Sample Size (n)	Annual Site Geometric Mean	≤15 µg/L Pass/Fail	Network Annual Avg Geometric Mean	≤11 µg/L Pass/Fail	Network 5-year Avg Geometric Mean	≤10 µg/L Pass/Fail
Arthur R. Marshall Loxahatchee National Wildlife Refuge	Impacted	2002	X1	10	35.9	Fail	35.8	Fail		
	Impacted	2002	Z1	9	35.8	Fail				
	Impacted	2003	X1	10	27.8	Fail	28.4	Fail		
	Impacted	2003	Z1	9	29.0	Fail				
	Impacted	2004	X1	12	24.2	Fail	25.4	Fail		
	Impacted	2004	Z1	12	26.7	Fail				
	Impacted	2005	LOXA101	7	19.0	Fail	34.1	Fail		
	Impacted	2005	LOXA103	7	15.8	Fail				
	Impacted	2005	LOXA105	6	38.0	Fail				
	Impacted	2005	LOXA124	8	29.9	Fail				
	Impacted	2005	LOXA130	8	26.8	Fail				
	Impacted	2005	LOXA136	7	79.3	Fail				
	Impacted	2005	LOXA140	7	18.1	Fail				
	Impacted	2005	X1	9	46.2	Fail				
	Impacted	2005	Z1	11	34.1	Fail				
	Impacted	2006	LOXA101	8	14.5	Pass	15.9	Fail	26.7	Fail
	Impacted	2006	LOXA103	8	9.1	Pass				
	Impacted	2006	LOXA105	8	15.5	Pass				
	Impacted	2006	LOXA124	11	10.6	Pass				
	Impacted	2006	LOXA130	11	14.8	Pass				
	Impacted	2006	LOXA136	5	N/A (27.7)	N/A				
	Impacted	2006	LOXA140	9	11.8	Pass				
Impacted	2006	X1	10	31.2	Fail					
Impacted	2006	Z1	12	19.6	Fail					

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Arthur R. Marshall Loxahatchee National Wildlife Refuge	Unimpacted	2002	LOX10	9	7.7	Pass	8.9	Pass		
	Unimpacted	2002	LOX11	11	9.9	Pass				
	Unimpacted	2002	LOX12	12	7.9	Pass				
	Unimpacted	2002	LOX13	12	11.3	Pass				
	Unimpacted	2002	LOX14	11	7.5	Pass				
	Unimpacted	2002	LOX15	11	6.8	Pass				
	Unimpacted	2002	LOX16	11	8.7	Pass				
	Unimpacted	2002	LOX3	8	8.7	Pass				
	Unimpacted	2002	LOX4	9	9.2	Pass				
	Unimpacted	2002	LOX5	9	10.2	Pass				
	Unimpacted	2002	LOX6	11	7.3	Pass				
	Unimpacted	2002	LOX7	10	9.1	Pass				
	Unimpacted	2002	LOX8	11	9.4	Pass				
	Unimpacted	2002	LOX9	10	7.7	Pass				
	Unimpacted	2002	X4	10	12.5	Pass				
	Unimpacted	2003	LOX10	7	6.9	Pass	8.3	Pass		
	Unimpacted	2003	LOX11	11	8.8	Pass				
	Unimpacted	2003	LOX12	12	7.6	Pass				
	Unimpacted	2003	LOX13	8	9.3	Pass				
	Unimpacted	2003	LOX14	12	7.8	Pass				
	Unimpacted	2003	LOX15	12	6.5	Pass				
	Unimpacted	2003	LOX16	11	8.5	Pass				
	Unimpacted	2003	LOX3	5	N/A (11.9)	N/A				
	Unimpacted	2003	LOX4	9	10.2	Pass				
	Unimpacted	2003	LOX5	5	N/A (8.4)	N/A				
	Unimpacted	2003	LOX6	11	6.9	Pass				
	Unimpacted	2003	LOX7	11	8.1	Pass				
	Unimpacted	2003	LOX8	11	7.6	Pass				
	Unimpacted	2003	LOX9	8	6.9	Pass				
	Unimpacted	2003	X4	10	12.0	Pass				
	Unimpacted	2004	LOX10	8	9.1	Pass	8.7	Pass		
	Unimpacted	2004	LOX11	11	7.5	Pass				
	Unimpacted	2004	LOX12	12	6.4	Pass				
	Unimpacted	2004	LOX13	11	9.7	Pass				
	Unimpacted	2004	LOX14	12	7.6	Pass				
	Unimpacted	2004	LOX15	12	5.6	Pass				
	Unimpacted	2004	LOX16	12	8.4	Pass				
	Unimpacted	2004	LOX3	7	12.1	Pass				
	Unimpacted	2004	LOX4	9	10.9	Pass				
	Unimpacted	2004	LOX5	8	12.1	Pass				
Unimpacted	2004	LOX6	12	6.9	Pass					
Unimpacted	2004	LOX7	11	9.6	Pass					
Unimpacted	2004	LOX8	12	7.9	Pass					
Unimpacted	2004	LOX9	7	7.2	Pass					
Unimpacted	2004	X4	12	9.7	Pass					

Area	Network	Water Year	Station	Sample Size (n)	Annual Site Geometric Mean	≤15 µg/L Pass/Fail	Network Annual Avg Geometric Mean	≤11 µg/L Pass/Fail	Network 5-year Avg Geometric Mean	≤10 µg/L Pass/Fail
Arthur R. Marshall Loxahatchee National Wildlife Refuge	Unimpacted	2005	LOX10	9	11.4	Pass	11.0	Pass		
	Unimpacted	2005	LOX11	10	10.9	Pass				
	Unimpacted	2005	LOX12	12	12.9	Pass				
	Unimpacted	2005	LOX13	10	9.6	Pass				
	Unimpacted	2005	LOX14	10	8.3	Pass				
	Unimpacted	2005	LOX15	11	8.7	Pass				
	Unimpacted	2005	LOX16	10	8.9	Pass				
	Unimpacted	2005	LOX3	4	N/A (17.2)	N/A				
	Unimpacted	2005	LOX4	9	14.0	Pass				
	Unimpacted	2005	LOX5	3	N/A (11.9)	N/A				
	Unimpacted	2005	LOX6	9	7.2	Pass				
	Unimpacted	2005	LOX7	10	11.2	Pass				
	Unimpacted	2005	LOX8	10	10.4	Pass				
	Unimpacted	2005	LOX9	6	9.9	Pass				
	Unimpacted	2005	LOXA108	5	N/A (10)	N/A				
	Unimpacted	2005	LOXA139	5	N/A (11.1)	N/A				
	Unimpacted	2005	X4	11	19.8	Fail				
	Unimpacted	2006	LOX10	9	7.3	Pass	7.6	Pass	8.8	Pass
	Unimpacted	2006	LOX11	10	7.1	Pass				
	Unimpacted	2006	LOX12	10	7.2	Pass				
	Unimpacted	2006	LOX13	8	7.5	Pass				
	Unimpacted	2006	LOX14	10	6.7	Pass				
	Unimpacted	2006	LOX15	10	7.5	Pass				
	Unimpacted	2006	LOX16	10	6.7	Pass				
	Unimpacted	2006	LOX3	4	N/A (7.3)	N/A				
	Unimpacted	2006	LOX4	10	8.0	Pass				
	Unimpacted	2006	LOX5	7	7.8	Pass				
	Unimpacted	2006	LOX6	10	6.0	Pass				
	Unimpacted	2006	LOX7	10	7.8	Pass				
	Unimpacted	2006	LOX8	10	8.1	Pass				
	Unimpacted	2006	LOX9	10	6.4	Pass				
	Unimpacted	2006	LOXA108	6	9.8	Pass				
Unimpacted	2006	LOXA139	8	8.8	Pass					
Unimpacted	2006	X4	12	9.1	Pass					

Area	Network	Water Year	Station	Sample Size (n)	Annual Site Geometric Mean	≤15 µg/L Pass/Fail	Network Annual Avg Geometric Mean	≤11 µg/L Pass/Fail	Network 5-year Avg Geometric Mean	≤10 µg/L Pass/Fail	
Water Conservation Area 2	Impacted	2002	404Z1	9	26.4	Fail	25.0	Fail			
	Impacted	2002	F1	25	42.6	Fail					
	Impacted	2002	F3	9	24.7	Fail					
	Impacted	2002	F4	30	13.5	Pass					
	Impacted	2002	N1	8	17.6	Fail					
	Impacted	2003	404Z1	10	30.3	Fail	27.2	Fail			
	Impacted	2003	F1	24	49.7	Fail					
	Impacted	2003	F3	10	21.2	Fail					
	Impacted	2003	F4	31	13.5	Pass					
	Impacted	2003	N1	10	21.5	Fail					
	Impacted	2004	404Z1	10	18.8	Fail	19.5	Fail			
	Impacted	2004	F1	23	32.7	Fail					
	Impacted	2004	F3	11	15.5	Pass					
	Impacted	2004	F4	27	10.8	Pass					
	Impacted	2004	N1	10	19.6	Fail					
	Impacted	2005	404Z1	7	25.8	Fail	31.8	Fail			
	Impacted	2005	F1	18	64.1	Fail					
	Impacted	2005	F3	12	30.5	Fail					
	Water Conservation Area 2	Unimpacted	2002	404C2	7	15.4	Pass	9.8	Pass		
		Unimpacted	2002	CA29	19	8.2	Pass				
Unimpacted		2002	E5	8	8.4	Pass					
Unimpacted		2002	F5	11	10.8	Pass					
Unimpacted		2002	U1	11	7.9	Pass					
Unimpacted		2002	U3	10	8.2	Pass					
Unimpacted		2003	404C2	8	13.0	Pass	8.5	Pass			
Unimpacted		2003	CA29	22	6.0	Pass					
Unimpacted		2003	E5	9	6.4	Pass					
Unimpacted		2003	F5	10	11.6	Pass					
Unimpacted		2003	U1	9	6.0	Pass					
Unimpacted		2003	U3	10	7.8	Pass					
Unimpacted		2004	404C2	10	11.5	Pass	6.5	Pass			
Unimpacted		2004	CA29	24	6.1	Pass					
Unimpacted		2004	E5	9	5.7	Pass					
Unimpacted		2004	F5	8	6.5	Pass					
Unimpacted		2004	U1	7	3.9	Pass					
Unimpacted		2004	U3	9	5.5	Pass					
Unimpacted		2005	404C2	8	8.7	Pass	9.1	Pass			
Unimpacted		2005	CA29	18	6.6	Pass					
Unimpacted	2005	E5	8	6.0	Pass						
Unimpacted	2005	F5	7	11.6	Pass						
Unimpacted	2005	U1	9	10.3	Pass						
Unimpacted	2005	U3	7	11.3	Pass						
Unimpacted	2006	404C2	12	8.4	Pass	7.2	Pass	8.2	Pass		
Unimpacted	2006	CA29	25	6.6	Pass						
Unimpacted	2006	E5	9	7.4	Pass						
Unimpacted	2006	F5	9	8.5	Pass						
Unimpacted	2006	U1	9	6.7	Pass						
Unimpacted	2006	U3	8	5.7	Pass						

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Water Conservation Area 3	Impacted	2002	CA33	16	10.5	Pass	20.8	Fail		
	Impacted	2002	CA35	8	9.4	Pass				
	Impacted	2002	CA36	10	42.5	Fail				
	Impacted	2003	CA33	19	10.3	Pass	18.5	Fail		
	Impacted	2003	CA35	15	10.5	Pass				
	Impacted	2003	CA36	11	34.8	Fail				
	Impacted	2004	CA33	21	10.4	Pass	17.0	Fail		
	Impacted	2004	CA35	17	9.4	Pass				
	Impacted	2004	CA36	15	31.2	Fail				
	Impacted	2005	CA33	11	15.0	Pass	13.1	Fail		
	Impacted	2005	CA35	7	11.3	Pass				
	Impacted	2005	CA36	5	N/A (61)	N/A				
	Impacted	2006	CA33	22	10.2	Pass	16.2	Fail	17.4	Fail
	Impacted	2006	CA35	17	8.1	Pass				
Impacted	2006	CA36	14	30.2	Fail					
Water Conservation Area 3	Unimpacted	2002	3ASMESO	6	3.7	Pass	6.3	Pass		
	Unimpacted	2002	CA311	23	5.1	Pass				
	Unimpacted	2002	CA315	22	5.4	Pass				
	Unimpacted	2002	CA316	22	8.2	Pass				
	Unimpacted	2002	CA32	17	7.1	Pass				
	Unimpacted	2002	CA34	17	9.4	Pass				
	Unimpacted	2002	CA38	19	5.5	Pass				
	Unimpacted	2002	S345B6	5	N/A (5.5)	N/A				
	Unimpacted	2003	3ASMESO	10	4.5	Pass	6.0	Pass		
	Unimpacted	2003	CA311	24	4.8	Pass				
	Unimpacted	2003	CA315	23	5.0	Pass				
	Unimpacted	2003	CA316	23	8.0	Pass				
	Unimpacted	2003	CA32	19	6.8	Pass				
	Unimpacted	2003	CA34	18	8.3	Pass				
	Unimpacted	2003	CA38	22	4.8	Pass				
	Unimpacted	2003	S345B6	5	N/A (5.5)	N/A				
	Unimpacted	2004	3ASMESO	12	2.9	Pass	5.0	Pass		
	Unimpacted	2004	CA311	23	4.1	Pass				
	Unimpacted	2004	CA315	26	4.3	Pass				
	Unimpacted	2004	CA316	25	6.3	Pass				
	Unimpacted	2004	CA32	17	5.8	Pass				
	Unimpacted	2004	CA34	17	6.7	Pass				
	Unimpacted	2004	CA38	20	4.9	Pass				
Unimpacted	2004	S345B6	6	4.9	Pass					
Unimpacted	2005	3ASMESO	9	3.6	Pass	7.4	Pass			
Unimpacted	2005	CA311	17	7.0	Pass					

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Water Conservation Area 3	Unimpacted	2005	CA315	18	8.2	Pass				
	Unimpacted	2005	CA316	19	10.6	Pass				
	Unimpacted	2005	CA32	8	7.6	Pass				
	Unimpacted	2005	CA34	9	7.8	Pass				
	Unimpacted	2005	CA38	11	5.6	Pass				
	Unimpacted	2005	S345B6	8	8.8	Pass				
	Unimpacted	2006	3ASMESO	11	3.4	Pass	6.5	Pass	6.3	Pass
	Unimpacted	2006	CA311	24	5.5	Pass				
	Unimpacted	2006	CA315	26	7.0	Pass				
	Unimpacted	2006	CA316	26	7.4	Pass				
	Unimpacted	2006	CA32	19	6.2	Pass				
	Unimpacted	2006	CA34	22	10.3	Pass				
	Unimpacted	2006	CA38	21	5.9	Pass				
	Unimpacted	2006	S345B6	8	6.3	Pass				

N/A Annual site geometric mean calculated from less than the six required samples. Value provided for informational purposes only and not included in assessment calculations.