

Appendix 2A-2: Comparison Between Current Class III DO Standard and DO SSAC Under Development and Consideration by the FDEP

Florida Department of Environmental Protection

Table 1. Comparison between dissolved oxygen excursion rates using the state Class III standard (5.0 mg/L) and the DO SSAC under development for WY02 results. Sites are classified according to whether they are a structure (pump, culvert, gate, etc.), interior marsh station or canal station. Excursion categories for both the Class III criterion and DO SSAC are expressed in terms of "Pass" or "Fail"

Class	Site	Mean Annual DO (mg/L)	Annual SSAC Limit (mg/L)	Number Less than 5.0 mg/L	N	Class III Excursion Category	SSAC Excursion Category
Canal	3AE0	6.61	3.04	2	8	Fail	Pass
Interior	3AE05	3.61	3.51	5	6	Fail	Pass
Interior	3AE10	2.75	3.28	6	6	Fail	Fail
Interior	3AE15	1.70	3.01	6	6	Fail	Fail
Interior	3AE20	3.66	2.80	5	6	Fail	Pass
Interior	3AE40	5.11	2.62	4	6	Fail	Pass
Interior	3ANMESO	3.62	2.47	5	7	Fail	Pass
Interior	3ASMESO	5.18	2.33	2	7	Fail	Pass
Canal	3AW0	6.86	3.06	1	8	Fail	Pass
Interior	3AW05	2.13	3.43	6	6	Fail	Fail
Interior	3AW10	2.91	3.45	6	6	Fail	Fail
Interior	3AW15	2.00	3.22	6	6	Fail	Fail
Interior	3AW20	2.11	2.95	6	6	Fail	Fail
Interior	3AW40	5.90	2.60	3	6	Fail	Pass
Structure	ACME1DS	4.56	1.80	9	16	Fail	Pass
Structure	C123SR84	4.28	2.75	9	13	Fail	Pass
Interior	CA215	4.77	2.21	13	21	Fail	Pass
Interior	CA27	3.21	2.38	15	17	Fail	Pass
Interior	CA28	2.23	2.12	13	15	Fail	Pass
Interior	CA29	3.66	2.10	15	20	Fail	Pass

Class	Site	Mean Annual DO (mg/L)	Annual SSAC Limit (mg/L)	Number Less than 5.0 mg/L	N	Class III Excursion Category	SSAC Excursion Category
Interior	CA311	4.51	2.00	12	22	Fail	Pass
Interior	CA315	2.97	2.03	20	22	Fail	Pass
Interior	CA316	1.89	1.94	22	22	Fail	Fail
Interior	CA317	4.54	1.89	17	25	Fail	Pass
Interior	CA318	2.99	2.06	19	21	Fail	Pass
Interior	CA32	3.14	2.36	16	17	Fail	Pass
Interior	CA33	2.32	2.28	16	16	Fail	Pass
Interior	CA34	2.29	2.39	16	16	Fail	Fail
Interior	CA35	4.72	2.32	4	7	Fail	Pass
Interior	CA36	1.92	2.70	9	9	Fail	Fail
Interior	CA38	3.36	2.32	15	18	Fail	Pass
Canal	E0	4.26	2.36	7	13	Fail	Pass
Interior	E1	1.55	2.50	10	10	Fail	Fail
Interior	E2	2.94	2.71	6	7	Fail	Pass
Interior	E3	2.35	2.81	8	8	Fail	Fail
Interior	E4	2.44	2.71	10	10	Fail	Fail
Interior	E5	5.89	2.65	5	8	Fail	Pass
Structure	ENR012	2.14	2.55	48	54	Fail	Fail
Interior	EP	8.70	2.56	0	6	Pass	Pass
Canal	F0	3.79	2.62	10	13	Fail	Pass
Interior	F1	2.44	2.65	23	26	Fail	Fail
Interior	F2	1.86	2.85	28	29	Fail	Fail
Interior	F3	3.74	3.34	8	10	Fail	Pass
Interior	F4	3.15	2.47	26	30	Fail	Pass
Interior	F5	5.23	2.73	8	11	Fail	Pass
Structure	G123	3.42	2.71	11	14	Fail	Pass
Structure	G204	1.98	3.04	2	2	Fail	Fail
Structure	G205	3.97	2.28	2	3	Fail	Pass
Structure	G206	2.22	2.99	3	3	Fail	Fail
Structure	G310	3.35	2.43	46	54	Fail	Pass
Structure	G94B	2.70	2.21	11	12	Fail	Pass
Structure	G94D	4.19	1.79	11	16	Fail	Pass
Interior	LOX10	3.41	2.13	9	9	Fail	Pass
Interior	LOX11	3.48	2.04	9	11	Fail	Pass
Interior	LOX12	4.24	1.98	6	12	Fail	Pass
Interior	LOX13	3.31	2.05	9	12	Fail	Pass
Interior	LOX14	2.74	2.03	9	11	Fail	Pass
Interior	LOX15	3.99	1.85	7	11	Fail	Pass
Interior	LOX16	2.38	2.01	11	11	Fail	Pass
Interior	LOX3	3.16	2.21	8	8	Fail	Pass
Interior	LOX4	2.92	2.29	9	9	Fail	Pass
Interior	LOX5	2.94	2.14	9	9	Fail	Pass

Class	Site	Mean Annual DO (mg/L)	Annual SSAC Limit (mg/L)	Number Less than 5.0 mg/L	N	Class III Excursion Category	SSAC Excursion Category
Interior	LOX6	4.05	1.96	7	11	Fail	Pass
Interior	LOX7	3.52	2.03	9	10	Fail	Pass
Interior	LOX8	4.12	1.93	9	11	Fail	Pass
Interior	LOX9	2.87	2.11	10	10	Fail	Pass
Interior	NE1	4.73	2.20	6	9	Fail	Pass
Interior	NP201	4.86	2.16	5	10	Fail	Pass
Interior	P33	4.71	2.07	6	9	Fail	Pass
Interior	P34	6.31	1.96	0	7	Pass	Pass
Interior	P35	3.89	2.24	6	6	Fail	Pass
Interior	P36	5.07	2.36	4	9	Fail	Pass
Interior	P37	8.58	2.57	0	6	Pass	Pass
Structure	S10A	6.23	2.56	2	14	Fail	Pass
Structure	S10C	4.98	2.01	6	10	Fail	Pass
Structure	S10C	4.98	2.01	6	10	Fail	Pass
Structure	S10D	3.25	2.20	22	24	Fail	Pass
Structure	S10E	3.32	2.24	22	24	Fail	Pass
Structure	S11A	5.74	2.22	8	28	Fail	Pass
Structure	S11B	4.93	2.41	6	18	Fail	Pass
Structure	S11C	3.91	2.90	22	32	Fail	Pass
Structure	S12A	3.46	2.18	48	54	Fail	Pass
Structure	S12B	3.98	2.24	40	52	Fail	Pass
Structure	S12C	3.69	2.43	40	52	Fail	Pass
Structure	S12D	3.61	2.65	46	54	Fail	Pass
Structure	S140	3.70	2.72	11	15	Fail	Pass
Structure	S142	2.89	2.93	14	15	Fail	Fail
Structure	S144	7.31	1.58	0	1	Pass	Pass
Structure	S145	4.53	2.75	10	15	Fail	Pass
Structure	S146	5.03	2.21	0	1	Pass	Pass
Structure	S150	4.35	3.38	9	13	Fail	Pass
Structure	S151	3.12	3.03	16	17	Fail	Pass
Structure	S175	4.86	2.24	13	25	Fail	Pass
Structure	S18C	4.24	1.82	16	26	Fail	Pass
Structure	S190	6.01	2.58	4	16	Fail	Pass
Structure	S197	2.03	1.52	1	1	Fail	Pass
Structure	S31	4.05	3.11	10	12	Fail	Pass
Structure	S332	4.81	2.39	16	25	Fail	Pass
Structure	S332D	2.43	2.61	45	50	Fail	Fail
Structure	S333	3.56	2.84	48	54	Fail	Pass
Structure	S333	3.56	2.84	48	54	Fail	Pass
Structure	S334	4.85	3.06	7	12	Fail	Pass
Structure	S34	4.09	2.79	8	14	Fail	Pass
Structure	S344	2.65	1.61	3	4	Fail	Pass

Class	Site	Mean Annual DO (mg/L)	Annual SSAC Limit (mg/L)	Number Less than 5.0 mg/L	N	Class III Excursion Category	SSAC Excursion Category
Structure	S355A	6.95	2.94	2	24	Fail	Pass
Structure	S355B	4.92	3.13	14	24	Fail	Pass
Structure	S38	3.36	3.37	9	12	Fail	Fail
Structure	S38B	4.13	4.20	3	4	Fail	Fail
Structure	S39	5.25	2.15	7	18	Fail	Pass
Structure	S5A	3.82	1.84	39	54	Fail	Pass
Structure	S5AD	3.99	1.91	8	12	Fail	Pass
Structure	S5AS	3.76	1.86	7	10	Fail	Pass
Structure	S6	3.11	2.06	43	52	Fail	Pass
Structure	S6D	3.35	1.60	7	8	Fail	Pass
Structure	S7	3.33	3.16	14	16	Fail	Pass
Structure	S8	5.20	2.20	28	57	Fail	Pass
Structure	S9	2.88	3.24	50	52	Fail	Fail
Interior	T05E	3.90	2.52	3	4	Fail	Pass
Interior	T05W	4.99	2.97	2	3	Fail	Pass
Canal	T0E	5.59	2.72	1	5	Fail	Pass
Canal	T0W	5.57	2.71	1	5	Fail	Pass
Interior	T10E	6.94	2.88	0	2	Pass	Pass
Interior	T10W	5.09	2.31	1	4	Fail	Pass
Interior	T15E	4.24	2.30	2	3	Fail	Pass
Interior	T15W	6.94	2.28	0	3	Pass	Pass
Interior	T23	5.93	2.21	1	3	Fail	Pass
Interior	T24	5.47	2.16	2	3	Fail	Pass
Interior	T33	5.92	2.06	2	5	Fail	Pass
Interior	T34	6.07	1.92	0	4	Pass	Pass
Interior	TNMESO	5.62	1.80	2	4	Fail	Pass
Interior	TSB	3.29	2.08	10	10	Fail	Pass
Interior	TSMESO	5.69	1.88	1	3	Fail	Pass
Interior	U1	4.05	2.55	10	11	Fail	Pass
Interior	U2	6.75	2.60	4	9	Fail	Pass
Interior	U3	5.70	2.67	5	10	Fail	Pass
Structure	US41-25	2.53	1.97	26	26	Fail	Pass
Canal	X0	3.59	2.15	10	13	Fail	Pass
Interior	X1	1.50	2.43	10	10	Fail	Fail
Interior	X2	2.17	2.45	9	9	Fail	Fail
Interior	X3	2.90	2.41	8	9	Fail	Pass
Interior	X4	3.94	2.31	8	10	Fail	Pass
Interior	Y4	3.14	2.81	10	10	Fail	Pass
Canal	Z0	3.84	1.96	11	12	Fail	Pass
Interior	Z1	0.95	2.59	9	9	Fail	Fail
Interior	Z2	1.73	2.75	9	9	Fail	Fail
Interior	Z3	3.64	2.47	10	12	Fail	Pass

Class	Site	Mean Annual DO (mg/L)	Annual SSAC Limit (mg/L)	Number Less than 5.0 mg/L	N	Class III Excursion Category	SSAC Excursion Category
Interior	Z4	3.79	2.59	7	12	Fail	Pass