

# **Appendix 12-2: Water Quality Exceedances in the Biscayne Bay Region (1988–2003)**

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## INTRODUCTION

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Miami-Dade County Department of Environmental Resource Management (DERM) has collected water samples at 71 saltwater sites in Biscayne Bay and reported 1858 results that exceeded Florida water quality criteria (62-302.530) for saltwater from 1988 to 2003 (**Table 1**). The majority of the exceedances were for coliform bacteria, and most of those occurred at tributaries where surface water enters the bay. Most of the exceedances (74 percent) occurred within the Miami River basin.

**Table 1.** Number of times from January 1988–September 2003 that monthly saltwater water quality results at specific saltwater locations within Biscayne Bay exceeded state criteria and total number of samples (n/N). Criteria is as follows: fecal coliform bacteria  $\leq$  800 CFU; total coliform bacteria  $\leq$  2400 CFU; cadmium  $\leq$  9.3  $\mu\text{g/L}$ ; copper  $\leq$  3.7  $\mu\text{g/L}$ ; lead  $\leq$  8.5  $\mu\text{g/L}$ ; zinc  $\leq$  86  $\mu\text{g/L}$ . Results are from the Final Status and Trends Report for the Biscayne Bay Water Quality Status and Trends, Miami-Dade County DERM, 2005.

Site	Fecal Coliform	Total Coliform	Cadmium	Copper	Lead	Zinc
AC01	6/185	4/185	–	–	–	–
AC02	10/180	10/180	0/1	0/1	0/1	0/1
AR01	0/165	2/165	0/12	0/56	0/57	0/54
BB01	4/176	3/174	–	–	–	–
BB02	0/176	0/175	0/26	4/66	0/62	0/64
BB03	2/176	2/171	–	–	–	–
BB04	0/175	0/172	–	–	–	–
BB05A	–	–	0/24	0/22	0/22	0/24
BB06	0/178	0/177	0/2	0/21	0/21	0/21
BB07	0/178	0/178	–	–	–	–
BB09	0/178	0/176	–	0/3	0/3	0/3
BB10	0/178	0/176	0/24	2/22	0/21	0/24
BB11	1/175	3/170	–	–	–	–
BB14	0/177	0/175	0/6	0/68	0/67	0/65
BB15	0/178	0/176	–	–	–	–
BB16	0/180	0/179	–	–	–	–
BB17	1/180	0/180	0/22	0/20	0/20	0/22
BB18	0/180	0/177	–	–	–	–
BB19	9/180	11/175	–	–	–	–
BB22	0/181	0/180	0/10	0/48	0/48	0/45
BB23	3/180	1/177	0/3	0/21	0/21	0/21
BB24	1/181	0/180	–	–	–	–
BB25	0/178	1/176	–	–	–	–
BB26	0/177	0/171	–	–	–	–
BB27	0/177	1/174	–	–	–	–
BB28	2/178	1/179	–	–	–	–
BB29	1/158	1/156	–	–	–	–
BB31	0/120	0/119	0/4	0/66	0/67	0/64

Site	Fecal Coliform	Total Coliform	Cadmium	Copper	Lead	Zinc
BB32	0/178	0/177	0/24	2/21	0/22	0/24
BB34	1/176	1/174	-	-	-	-
BB35	0/121	0/121	-	-	-	-
BB36	0/122	0/122	-	-	-	-
BB37	0/177	0/177	-	-	-	-
BB38	0/120	0/119	-	-	-	-
BB39A	1/80	1/80	-	0/21	0/22	0/24
BB41	0/115	0/115	-	-	-	-
BB42	0/120	0/120	-	-	-	-
BB43	0/120	0/120	-	-	-	-
BB44	0/119	0/119	-	-	-	-
BB45	0/120	0/120	-	-	-	-
BB46	0/117	0/118	-	-	-	-
BB47	0/124	0/124	0/4	0/64	0/65	1/63
BB48	0/124	0/124	-	-	-	-
BB50	0/104	0/108	-	-	-	-
BB51	0/165	0/165	-	-	-	-
BB52	0/56	0/56	0/3	0/15	0/15	0/15
BB53	0/56	0/56	0/3	0/17	0/16	0/16
BB54	0/28	0/28	-	-	-	-
BL01	4/182	3/182	0/7	1/66	0/67	0/65
BL02	4/178	3/178	0/1	0/1	0/1	0/1
BS01	11/177	16/177	0/8	2/64	0/63	0/61
CD01/01 A	0/79	1/79	-	0/21	0/22	1/24
CG01	4/178	3/179	0/14	0/16	0/16	0/16
GL02	18/178	24/177	0/1	0/1	0/1	0/1
LR01	44/188	63/188	0/11	2/70	1/69	0/68
LR03	59/183	71/183	1/5	3/7	1/7	0/7
MI01	1/80	1/80	-	0/21	0/22	0/24
MR01	58/190	71/191	0/7	1/68	0/68	0/65
MR02	91/185	118/185	-	1/2	0/2	0/2
MR03	81/185	99/185	0/52	29/68	0/68	0/65
MR04	62/186	76/186	-	-	-	-
MR05	50/129	45/129	0/1	0/1	0/1	0/1
MR06	47/184	48/183	0/44	16/65	0/65	0/61
MR07	47/182	52/182	0/1	0/5	0/5	0/4
MW01	0/174	3/174	0/7	0/15	0/15	0/15
PR01	3/153	3/153	0/5	0/8	0/8	0/8
SK01	10/173	6/172	0/4	3/4	0/4	0/4
SP01	14/178	10/179	0/14	1/64	0/64	0/62
TM02	28/179	33/179	0/1	0/4	0/4	0/4
WC02	147/198	165/198	0/14	6/16	2/16	0/14
<b>Total Ex.</b>	<b>822</b>	<b>956</b>	<b>1</b>	<b>73</b>	<b>4</b>	<b>2</b>
<b>Grand Total Exceedances</b>						<b>1858</b>