PMTurkeyCOLPEm Resource

From: Orthen, Richard [Richard.Orthen@fpl.com]
Sent: Friday, July 29, 2011 12:02 PM
To: Kugler, Andrew; Comar, Manny; Matthews, David; Stewart, Scott; McCree, Victor
Cc: Orthen, Richard; Benken, Ed; Brown, Alison; Dryden, Mark; Laffrey, John; Nicholson, Larry; Ross, Mitch; Scroggs, Steven; Steve Hook; CHILDRESS, ELWOOD; Cognetti, Thomas; Tomonto, Bob; Turbak, Michael; Weis, Rick; Wilkinson, Jack; Yamrus, Robert; Petro, James; Ross, Mitch; Franzone, Steve; Hamrick, Steven; Madden, George; Maher, William; Bortone, Pilar; Burski, Raymond; Christina Twigg; Fazio, Joseph; Jacobs, Paul; Wagner, David; John Cunliffe; Kim Slays (kslays@enercon.com); Madden, George; Mccool, Terry; Mihalakea, Stavroula; Jordan, Michael; Mothena, Don; Paine, Elizabeth; Raffenberg, Matthew; Regan, Robert; Reynolds, Mike; Ronald Anstey; Ronald Markovich; Bob Seelman
Subject: FPL Letter L-2011-284 Dated 07-29-2011 RAI Ltr 110614 RAI 5763 Rev 2 Response.doc
Attachments: L-2011-284 Dated 07-29-2011 RAI Ltr 110614 RAI 5763 Rev 2 Response_reduced.pdf

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555-0001

Re: Florida Power & Light Company
Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
Response to NRC Environmental Request for Additional Information Letter 110614 (RAI 5763 Revision 2) Environmental Standard Review Plan Section 2.3 – Water

Reference:

1. NRC Letter to FPL dated June 14, 2011, Environmental Request for Additional Information Letter 110614 Related to ESRP Section 2.3, Water, for the Combined License Application Review for Turkey Point Units 6 and 7

Florida Power & Light Company (FPL) provides, as an attachment to this letter, its response to the Nuclear Regulatory Commission's (NRC) Environmental Request for Additional Information (RAI) 2.3-2 and 2.3-6 provided in Reference 1. The attachment identifies changes that will be made in a future revision of the Turkey Point Units 6 and 7 Combined License Application (if applicable).

The response to RAI 2.3-1 will be provided by September 6, 2011. The response to RAI 2.3-3 will be provided by September 19, 2011. The response to RAI 2.3-4 will be provided by November 10, 2011. The response to RAI 2.3-5 will be provided by August 30, 2011.

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L-2011-284
10 CFR 52.3

July 29, 2011

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Attn: Document Control Desk
Washington, D.C. 20555-0001

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Docket Nos. 52-040 and 52-041
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The response to RAI 2.3-1 will be provided by September 6, 2011. The response to RAI 2.3-3 will be provided by September 19, 2011. The response to RAI 2.3-4 will be provided by November 10, 2011. The response to RAI 2.3-5 will be provided by August 30, 2011.

If you have any questions, or need additional information, please contact me at 561-691-7490.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on July 29, 2011.

Sincerely,

William Maher
Senior Licensing Director – New Nuclear Projects

WDM/RFO

Florida Power & Light Company
700 Universe Boulevard, Juno Beach, FL 33408

Attachment 1: FPL Response to NRC RAI No. 2.3-2 (RAI 5763 Revision 2)
Attachment 2: FPL Response to NRC RAI No. 2.3-6 (RAI 5763 Revision 2)

cc:
PTN 6 & 7 Project Manager, AP1000 Projects Branch 1, USNRC DNRL/NRO
Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, Turkey Point Plant 3 & 4

NRC RAI Letter No. 110614 Dated June 14, 2011

SRP Section: EIS 2.3 – Water

Question from Environmental Technical Support Branch (RENV)

NRC RAI Number: EIS 2.3-2 (RAI 5763 Revision 2)

Provide a copy of the "Hydrologic Study" required by Miami Dade County Resolution Z-56-07.

FPL RESPONSE:

FPL did not provide a single *Hydrologic Study* document to satisfy Condition 15 of Miami Dade County Resolution Z-56-07. Instead, that requirement has been addressed as part of the Site Certification Application (SCA) and various rounds of completeness responses, as described in the 4th Round Completeness Responses – Response 4-MDC-C-1 (FPL, February 2011).

Reports submitted as part of the SCA process to fulfill the *Hydrologic Study* requirement have previously been submitted to NRC under separate cover. These reports are:

- Groundwater Model Development and Analysis: Units 6 & 7 Dewatering and Radial Collector Well Simulations, Revision 1 (Bechtel Power Corporation, 2011; Reference FPL Letter L-2011-082, February 28, 2011)

- HDR Engineering, Inc., 2009. FPL Turkey Point Exploratory Drilling and Aquifer Performance Test Program Report (Reference FPL Letter L-2010-172, Attachments 15 and 18, November 1, 2010)

- HDR Engineering, Inc., 2009. Cooling Water Supply and Disposal Design Report. March 2009 (Reference FPL Letter L-2010-172, Attachment 18, November 1, 2010)

- HDR Engineering, Inc., 2008. Report - Conceptual Engineering of Cooling Water Supply and Disposal for Turkey Point Units 6 & 7. June 30, 2008 (Reference FPL Letter L-2010-172, Attachment 18, November 1, 2010)

- HDR Engineering, Inc., 2007. Work Order #1 – Task 1.4 Analysis of Baseline Water Source Technical Review Report. December 2007 (Reference FPL Letter L-2010-172, Attachment 18, November 1, 2010)

- HDR Engineering, Inc., 2008. Work Order #2 – Task 1 Initial Water Source Alternative Screening Technical Review Report. March 2008 (Reference FPL Letter L-2010-172, Attachment 18, November 1, 2010)

- HDR Engineering, Inc., 2007. Work Order #2 – Tasks 2 and 3 Water Source Alternative Characterization and Scope Technical Review Report. March 2008 (Reference FPL Letter L-2010-172, Attachment 18, November 1, 2010)

This response is PLANT SPECIFIC.

References:

FPL, February 2011. FPL 4th Round Completeness Response 4-MDC-C-1 available at: http://publicfiles.dep.state.fl.us/Siting/Outgoing/FPL_Turkey_Point/Units_6_7/Completeness/Plant_Associated_Facilities/4th_Round_Completeness/FPL%20Response_4thCompleteness/Responses/PDF/4-MDC_Responses_02-24-11.pdf (accessed July 20, 2011)

ASSOCIATED COLA REVISIONS:

No COLA changes have been identified as a result of this response.

ASSOCIATED ENCLOSURES:

None

NRC RAI Letter No. 110614 Dated June 14, 2011

SRP Section: EIS 2.3 – Water

Question from Environmental Technical Support Branch (RENV)

NRC RAI Number: EIS 2.3-6 (RAI 5763 Revision 2)

The spatial variability of water quality constituent concentrations is provided in ER Tables 2.3-31 and 2.3-32 for the surface waters of Biscayne Bay and the industrial wastewater facility system. The tables provide monthly average concentrations at each station. To better define the temporal variability of the constituent concentrations, provide maximum and minimum concentrations for each month's data. Include information for any Biscayne Bay stations not previously reported in the region potentially influenced by the radial wells, and in regions affected by potential exchange with the cooling canal system of the industrial wastewater facility, Card Sound, and other local canals.

FPL RESPONSE:

ER Table 2.3-31 will be updated to include the maximum and minimum concentrations for each month's data at water monitoring stations in areas potentially affected as a result of the construction and operation of Units 6 & 7. Surrounding stations not previously reported in potentially affected areas will also be provided in ER Table 2.3-31 and will include three additional stations located in Biscayne Bay (BB41, BB44 and BB45), two additional stations located in Card Sound (BB47 and BB48) and three canal monitoring stations located near Turkey Point Units 6 & 7 (FC03, MW01 and MW04). Figure 2.3-66 will be revised to include all of the stations now reported in ER Table 2.3-31.

ER Table 2.3-32 represents the results of sampling events performed during 2003 as part of the Turkey Point Unit 5 Site Certification Application. Monthly sampling was not performed. Subsequent to the 2003 sampling, additional water quality sampling and analysis have been performed at several locations in the cooling canal system as part of the Units 3 & 4 Uprate Project (FPL 2011). This data is summarized in Table 1.

This response is PLANT SPECIFIC.

References:

FPL 2011. *Turkey Point Plant Semi-Annual Monitoring Report, Units 3 & 4 Uprate Project a*vailable at:
http://my.sfwmd.gov/portal/pls/portal/portal_apps.repository_lib_pkg.repository_browse?p_keywords=fpltpsurvey&p_thumbnails=no (accessed July 20, 2011)

Table 1 (Sheet 1 of 3)
Cooling Canal Water Quality Data (2010)

		TPSWCCS-1B		TPSWCCS-2B		TPSWCCS-3B		TPSWCCS-4T	
Month		**June/July**	**September**	**June/July**	**September**	**June/July**	**September**	**June/July**	**September**
Temperature	C	39.04	38.25	36.68	36.31	34.88	33.75	32.81	33.7
pH	SU	8.2	8.4	8.25	8.23	8.19	8.34	7.96	8.34
Dissolved Oxygen	mg/L	4.55	3.88	6.31	7.35	7.61	3.42	9.82	6.7
Spec Cond	µS/cm	76510	82182	76910	82550	70260	80056	77500	81626
Turbidity	NTU	3.5	4.74	8.46	7.34	8.57	7.05	4.83	5.8
Arsenic	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Barium	mg/L	0.082	0.160	0.083	0.580	0.073	0.370	0.057	0.054
Beryllium	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Copper	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Iron	mg/L	0.027	1.50	0.33	3.60	0.027	1.60	0.22	0.160
Lead	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Silica	mg/L	0.43	ND	1.4	ND	1.6	ND	1.1	ND
Calcium	mg/L	810	730	840	650	790	740	950	680
Magnesium	mg/L	2500	2200	2600	2200	2500	2300	3000	2200
Potassium	mg/L	790	670	840	670	710	660	860	670
Sodium	mg/L	20000	18000	21000	17000	21000	18000	21000	17000
Boron	mg/L	8.7	7.8	9.2	8.0	8.4	7.8	11	7.8
Strontium	mg/L	15	14.0	16	13.0	15	14.0	18	14.0
Chromium VI	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Bromide	mg/L	130	93	120	100	120	110	130	100
Chloride	mg/L	36000	31000	38000	32000	37000	31000	37000	37000
Fluoride	mg/L	0.1	0.020	0.1	0.020	0.08	0.020	0.1	0.020
Sulfate	mg/L	5000	4000	5100	4000	4300	3900	5100	4800
Total Ammonia	mg/L as N	0.083	ND	0.18	ND	0.11	ND	0.13	ND
Ammonium ion NH4	mg/L as N	0.064	ND	0.14	ND	0.09	ND	0.099	ND
Unionized NH3	mg/L	0.019	ND	0.04	ND	0.02	ND	0.031	ND
Nitrate/Nitrite as N	mg/L	0.0047	ND	0.015	ND	0.0047	ND	0.014	ND
TKN	mg/L	2.2	ND	1.6	ND	1.6	ND	2.5	ND
TN	mg/L	2.2	ND	2.6	ND	1.6	ND	0.87	ND
Orthophosphate	mg/L	0.051	ND	0.058	ND	0.071	ND	0.076	ND
Phosphorus(P)	mg/L	0.029	ND	0.028	ND	0.026	ND	0.024	ND
Alkalinity	mg/L (CaCO3)	150	130	150	120	160	140	150	130
Bicarbonate Alkalinity as CaCO3	mg/L	150	130	150	120	160	140	130	130
Sulfides	mg/L	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Dissolved Solids	mg/L	77000	ND	80000	ND	71000	ND	79000	ND
Dissolved Inorganic Carbon	mg/L	30	26	27	24	32	23	25	25
d180	%	5.5	4.2	6.1	4.4	6	4.2	6.1	4.50
d2H	%	31	33	31.2	28	27.5	24	32.9	26
d13C	%	-3.79	-6.01	-2.86	-4.94	-3.97	ND	-2.47	-5.66
Gross Alpha	pCi/L	15.8 (+/-1.2)	ND	57 (+/- 4)	ND	52 (+/-5)	ND	38 (+/-3)	ND
Salinity	%	ND	ND	ND	ND	ND	ND	ND	ND
Sr 87/86	%	0.70915	0.70913	0.70910	0.70914	0.70907	0.7091	0.70909	0.70915
Tritium	pCi/L **(1σ)**	2620.8 (32.0)	5020 (175)	3248.0 (35.2)	4980 (180)	3052.8 (35.2)	4810 (170)	3171.2 (35.2)	5250 (190)

Table 1 (Sheet 2 of 3)
Cooling Canal Water Quality Data (2010)

		TPSWCCS-4B		TPSWCCS-5T		TPSWCCS-5B		TPSWCCS-6T	
Month		**June/July**	**September**	**June/July**	**September**	**June/July**	**September**	**June/July**	**September**
Temperature	C	34.41	33.54	33.22	32.81	32.64	32.9	32.78	33.3
pH	SU	8.28	8.34	8.15	8.28	8.14	8.28	8.18	8.3
Dissolved Oxygen	mg/L	8.76	6.12	2.05	3.91	1.91	4.12	32.78	4.99
Spec Cond	µS/cm	77590	81369	76420	80967	76380	80899	75290	81050
Turbidity	NTU	5.7	4.2	3.45	3.98	4.6	5.9	3.56	4.1
Arsenic	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Barium	mg/L	0.041	0.034	0.097	0.043	0.1	0.038	0.082	0.036
Beryllium	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Copper	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Iron	mg/L	0.21	0.200	0.027	0.260	0.027	0.180	0.027	0.230
Lead	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Silica	mg/L	1	ND	0.25	ND	0.38	ND	0.5	ND
Calcium	mg/L	940	680	810	690	830	680	800	670
Magnesium	mg/L	3000	2200	2500	2200	2600	2100	2500	2100
Potassium	mg/L	870	640	800	620	810	670	800	650
Sodium	mg/L	21000	17000	20000	16000	19000	18000	20000	17000
Boron	mg/L	10	7.8	8.6	7.8	8.8	7.8	8.8	7.8
Strontium	mg/L	18	14.0	15	14.0	16	14.0	16	14.0
Chromium VI	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Bromide	mg/L	130	110	130	110	120	98	120	110
Chloride	mg/L	37000	34000	37000	33000	37000	33000	37000	34000
Fluoride	mg/L	0.1	0.020	0.1	0.020	0.1	0.020	0.1	0.020
Sulfate	mg/L	5000	4300	5100	4200	5000	4200	4900	4600
Total Ammonia	mg/L as N	0.14	ND	0.093	ND	0.13	ND	0.12	ND
Ammonium ion NH4	mg/L as N	0.111	ND	0.079	ND	0.111	ND	0.101	ND
Unionized NH3	mg/L	0.029	ND	0.014	ND	0.019	ND	0.019	ND
Nitrate/Nitrite as N	mg/L	0.015	ND	0.0047	ND	0.0047	ND	0.08	ND
TKN	mg/L	1.6	ND	2.2	ND	2.3	ND	1.7	ND
TN	mg/L	1.7	ND	2.2	ND	2.3	ND	1.8	ND
Orthophosphate	mg/L	0.078	ND	0.052	ND	0.062	ND	0.074	ND
Phosphorus(P)	mg/L	0.024	ND	0.024	ND	0.024	ND	0.016	ND
Alkalinity	mg/L (CaCO3)	150	130	160	130	150	130	150	130
Bicarbonate Alkalinity as CaCO3	mg/L	150	130	160	130	150	130	150	110
Sulfides	mg/L	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Dissolved Solids	mg/L	78000	ND	75000	ND	79000	ND	78000	ND
Dissolved Inorganic Carbon	mg/L	27	25	32	24	32	25	31	25
d180	%	6.1	4.40	5.6	4.30	5.7	4.30	5.6	4.3
d2H	%	34.0	24	31	24	31	23	32	23
d13C	%	-2.69	-5.52	-3.31	-6.05	-3.91	-5.73	-3.30	-5.54
Gross Alpha	pCi/L	54 (+/-4)	ND	15.9 (+/-1.3)	ND	16.5 (+/-1.3)	ND	25 (+/-2)	ND
Salinity	%	ND	ND	ND	ND	ND	ND	ND	ND
Sr 87/86	%	0.70908	0.70913	0.70916	0.70908	0.70911	0.70912	0.70912	0.70917
Tritium	pCi/L **(1σ)**	3097.6 (35.2)	4990 (170)	2582.4 (32.0)	5140 (180)	2524.8(28.8)	5260 (190)	2380.8 (28.8)	5240 (180)

Table 1 (Sheet 3 of 3)
Cooling Canal Water Quality Data (2010)

		TPSWCCS-6B		TPSWCCS-7B		TPSWCCS-8B	
Month		**June/July**	**September**	**June/July**	**September**	**June/July**	**September**
Temperature	**C**	32.91	33.47	36.89	37.14	37.87	ND
pH	**SU**	4.25	8.29	8.24	8.53	8.29	ND
Dissolved Oxygen	**mg/L**	4.77	5.01	5.62	5.61	7.14	ND
Spec Cond	**µS/cm**	74960	81547	75940	80784	78060	ND
Turbidity	**NTU**	4.25	3.32	6.42	9.31	14.14	ND
Arsenic	**mg/L**	ND	ND	ND	ND	ND	ND
Barium	**mg/L**	0.078	0.026	0.041	0.160	0.073	ND
Beryllium	**mg/L**	ND	ND	ND	ND	ND	ND
Cadmium	**mg/L**	ND	ND	ND	ND	ND	ND
Copper	**mg/L**	ND	ND	ND	ND	ND	ND
Iron	**mg/L**	0.027	0.220	0.027	1.90	0.29	ND
Lead	**mg/L**	ND	ND	ND	ND	ND	ND
Manganese	**mg/L**	ND	ND	ND	ND	ND	ND
Molybdenum	**mg/L**	ND	ND	ND	ND	ND	ND
Nickel	**mg/L**	ND	ND	ND	ND	ND	ND
Selenium	**mg/L**	ND	ND	ND	ND	ND	ND
Thallium	**mg/L**	ND	ND	ND	ND	ND	ND
Vanadium	**mg/L**	ND	ND	ND	ND	ND	ND
Zinc	**mg/L**	ND	ND	ND	ND	ND	ND
Silica	**mg/L**	0.5	ND	1.3	ND	1.2	ND
Calcium	**mg/L**	810	670	830	730	860	ND
Magnesium	**mg/L**	2500	2100	2600	2200	2700	ND
Potassium	**mg/L**	810	620	760	670	840	ND
Sodium	**mg/L**	21000	17000	22000	18000	21000	ND
Boron	**mg/L**	8.9	7.8	8.9	7.8	9.3	ND
Strontium	**mg/L**	16	14.0	16	14.0	16	ND
Chromium VI	**mg/L**	ND	ND	ND	ND	ND	ND
Mercury	**mg/L**	ND	ND	ND	ND	ND	ND
Bromide	**mg/L**	120	110	120	100	120	ND
Chloride	**mg/L**	36000	33000	39000	32000	40000	ND
Fluoride	**mg/L**	0.1	0.020	0.1	0.020	0.1	ND
Sulfate	**mg/L**	4900	4200	5200	3900	5400	ND
Total Ammonia	**mg/L as N**	0.12	ND	0.11	ND	0.16	ND
Ammonium ion NH4	**mg/L as N**	0.12	ND	0.086	ND	0.119	ND
Unionized NH3	**mg/L**	0.000017	ND	0.024	ND	0.041	ND
Nitrate/Nitrite as N	**mg/L**	0.03	ND	0.0047	ND	0.017	ND
TKN	**mg/L**	1.6	ND	1.5	ND	2.2	ND
TN	**mg/L**	1.6	ND	1.5	ND	1.5	ND
Orthophosphate	**mg/L**	0.073	ND	0.069	ND	0.057	ND
Phosphorus(P)	**mg/L**	0.019	ND	0.025	ND	0.03	ND
Alkalinity	**mg/L (CaCO3)**	150	130	150	130	150	ND
Bicarbonate Alkalinity as CaCO3	**mg/L**	150	130	150	110	150	ND
Sulfides	**mg/L**	1.0	1.0	1.0	1.0	1.0	ND
Total Dissolved Solids	**mg/L**	77000	ND	77000	ND	81000	ND
Dissolved Inorganic Carbon	**mg/L**	29	24	30	27	22	ND
d180	**%**	5.5	4.40	6.2	4.1	6.3	ND
d2H	**%**	29	26	36.4	24	36.5	ND
d13C	**%**	-3.20	-5.6	-2.87	-5.16	-2.69	ND
Gross Alpha	**pCi/L**	21 (+/-2)	ND	55(+/-5)	ND	55(+/-4)	ND
Salinity	**%**	ND	ND	ND	ND	ND	ND
Sr 87/86	**%**	0.70914	0.70913	0.70911	0.70917	0.70913	ND
Tritium	**pCi/L (1σ)**	2339.2 (28.8)	4030 (130)	3260.8 (35.2)	5230 (180)	3155.2 (35.2)	ND

"B" – bottom of water column "T" – top of water column "ND" – no data available

ASSOCIATED COLA REVISIONS:

ER Section 2.3.3.1.1 will be revised in a future COLA revision as follows:

Biscayne Bay water quality is monitored by the SFWMD through a project with the four-letter code name BISC **(renamed BBWQ)**. Project BISC **(Project BBWQ)** is monitored by two entities: the Dade County Department of Environmental Resources Management and the Florida International University. The entities monitor different parts of Biscayne Bay with the same goals**,** which are to determine water quality and provide data to SFWMD staff and outside agencies. ~~(SFWMD 2008e)~~ **(SFWMD 2011)**

Dade County Department of Environmental Resources Management's monitoring program consists of monthly surface water monitoring in Biscayne Bay and its tributaries. Routine monitoring was initiated to detect spatial and seasonal water quality trends, determine impacts on the health of the bay ecosystem, and identify areas of degradation. ~~(SFWMD 2008e)~~ **(SFWMD 2011)**

The program with Florida International University is part of an integrated monitoring network known as the South Florida Coastal Water Quality Monitoring Network. The network monitors water quality on the coastal regions of south Florida. The data generated from the South Florida Coastal Water Quality Monitoring Network is used to examine water quality trends along the Florida coast as well as address issues concerning freshwater inflow, water clarity, salinity, and nutrient availability patterns. ~~(SFWMD 2008e)~~ **(SFWMD 2011)**

Project BISC **(Project BBWQ)** monitors the following parameters: temperature, dissolved oxygen, pH, turbidity, nitrogen oxides, nitrate, ammonia, total Kjeldahl nitrogen, orthophosphate, total phosphate, silica, chlorophyll A, nitrite, total nitrogen, salinity, total organic carbon, and alkaline phosphate. Figure 2.3-66 depicts the ~~BISC~~ **monitoring stations that are potentially affected as a result of the construction and operation of Units 6 & 7**~~from Key Biscayne to Miami~~. Table 2.3-31 presents the monthly average**, maximum and minimum** water qualities for Project BISC **(Project BBWQ)** samples collected between 1993 and ~~2008~~ **2010** at varied depths of sampling local to the Turkey Point plant property. To analyze horizontal variations in Biscayne Bay, the data is presented at two depth ranges: less than 1 meter and **greater than or equal to 1 meter**. To analyze temporal variations, the data is presented monthly.

Analysis of the data from Project BISC **(Project BBWQ)** for horizontal spatial variation reveals that alkaline phosphate, silica, and nitrogen oxides are slightly elevated in samples closest to the shore (BISC 101, 110, and 122). **Nitrogen oxide is shown to be the highest among the samples taken from the canals (MW01, MW04 and FC03).** Total Kjeldahl nitrogen and nitrate are slightly elevated at sampling location BISC 101. ~~Silica, nitrate, total phosphate, orthophosphate, and total nitrogen are elevated at the southernmost sampling location in Card Sound (BISC 135), with nitrate being particularly elevated during the summer months of 2007.~~ Water quality data from samples taken in Card Sound (locations **BB47, BB48,** BISC 121 and 135) shows no meaningful water quality differences when compared to data from Biscayne Bay**.** ~~other than elevated levels at BISC135 as stated above.~~ In summary, Biscayne Bay, including Card Sound, is relatively consistent in regard to horizontal spatial variations.

As shown in Table 2.3-31, temperature, dissolved oxygen, and salinity were sampled at two depths and there was no meaningful variation in the data. The water quality data shown in Table 2.3-31 is consistent with the data analyzed for other sample locations in Biscayne Bay at varying depths and, as a result, it can be concluded that Biscayne Bay is relatively consistent in regard to vertical spatial variations in water quality.

Seasonal analysis of the data collected through Project BISC **(Project BBWQ)** shows higher concentrations of total nitrogen during the summer months for all sampling locations. In addition, the temperature of Biscayne Bay varies from an average monthly maximum of **31.1** ~~31.3~~°C in July at BISC 101 to an average monthly minimum of **17.5** ~~18.9~~°C in January at **BB44** ~~BISC 135~~ (average of samples taken at greater than 1 foot deep). Otherwise, most likely because of the limited atmospheric temperature variation seasonally (Florida's proximity to the equator), there is minimal seasonal variation in Biscayne Bay.

ER Section 2.3 References will be revised as follows:

~~SFWMD 2008e. *SFWMD Quality Monitoring Project BISC*. Available at http://my.sfwmd.gov/portal/page?_pageid=2954,19761153&_dad=portal&_schema=PORTAL&p_proj_id=250.~~

SFWMD 2011. SFWMD Water Quality Monitoring Project Information. Available at http://my.sfwmd.gov/portal/page/portal/pg_grp_sfwmd_wqm/pg_sfwmd_wqm_projectinformation, accessed July 11, 2011.

Table 2.3-31 (Sheet 1 of 22)
Biscayne Bay Water Quality

Sample Location BB47 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (< 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	17.4470	20.8550	21.2662	23.7375	25.7533	28.3300	29.8810	30.6350	29.4100	27.5692	25.8475	21.0882
	Max	23.6000	23.7100	24.3700	26.7300	28.4300	30.8100	31.3900	31.9100	30.4000	29.7500	27.7200	25.6500
	Min	13.3800	15.8600	17.8400	16.0000	16.0000	16.0000	28.1500	29.1500	27.2000	25.0100	22.1800	15.8900
D.O mg/L	Avg	7.7600	6.2350[1]	6.8650	6.3942	6.2025	5.6150	5.5344	5.5575	5.4418	5.9733	6.1250	7.0582
	Max	8.2500	7.8700	7.7600	6.7600	6.5600	6.4400	5.9500	6.3800	6.0100	6.5000	6.9500	8.2000
	Min	7.0900	0.1900	5.9000	5.9200	5.6000	5.1500	4.6100	5.0600	4.5600	5.3900	5.1400	6.0100
PH UNITS	Avg	8.0518	8.0983	8.0992	8.0858	8.1673	7.9750	8.0600	7.9417	7.9360	7.9225	8.0236	8.0530
	Max	8.1700	8.3000	8.3400	8.2600	8.4400	8.2000	8.1700	8.1600	8.1200	7.9700	8.1300	8.2200
	Min	7.9100	7.8700	7.7400	7.7800	7.8300	7.6200	7.9700	7.0400	7.8000	7.7800	7.8700	7.7900
TURB NTU	Avg	0.9333	0.3000	0.4500	0.4467	0.4333	0.5000	ND	0.2000	0.2000	0.6000	0.3500	0.3333
	Max	1.3000	0.3000	0.6000	0.5400	0.7000	0.7000	ND	0.2000	0.2000	0.9000	0.4000	0.4000
	Min	0.2000	0.3000	0.3000	0.4000	0.3000	0.4000	ND	0.2000	0.2000	0.3000	0.3000	0.2000
NOX mg/L	Avg	0.0300	<0.0100	<0.0100	0.0133	<0.0100	0.0233	ND	<0.0100	<0.0100	0.0800	<0.0100	<0.0100
	Max	0.0300	<0.0100	<0.0100	0.0200	<0.0100	0.0500	ND	<0.0100	<0.0100	0.1500	<0.0100	<0.0100
	Min	0.0300	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	ND	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
NH4 mg/L	Avg	0.0600	0.0800	0.0700	0.0767	0.1100	0.0700	ND	0.1100	0.0900	0.0850	0.0800	0.0733
	Max	0.0700	0.0800	0.0900	0.0800	0.1100	0.0900	ND	0.1100	0.0900	0.0900	0.0900	0.0800
	Min	<0.0400	0.0800	0.0500	0.0700	0.1100	0.0300	ND	0.1100	0.0900	0.0800	0.0700	0.0700
TKN mg/L	Avg	<0.0800	<0.0800	<0.0800	<0.0800	<0.0800	<0.0800	ND	<0.0800	<0.0800	0.1950	0.3250	0.1500
	Max	<0.0800	<0.0800	<0.0800	<0.0800	<0.0800	<0.0800	ND	<0.0800	<0.0800	0.3100	0.5600	0.1500
	Min	<0.0800	<0.0800	<0.0800	<0.0800	<0.0800	<0.0800	ND	<0.0800	<0.0800	<0.0800	0.0900	0.1500
OPO4 mg/L	Avg	0.0020	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	ND	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Max	0.0020	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	ND	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Min	0.0020	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	ND	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
TPO4 mg/L	Avg	0.0020	0.0040	0.0025	0.0020	<0.0020	0.0030	ND	0.0030	0.0030	0.0030	0.0030	0.0020
	Max	0.0020	0.0040	0.0030	0.0020	<0.0020	0.0030	ND	0.0030	0.0030	0.0040	0.0040	<0.0020
	Min	0.0020	0.0040	<0.0020	0.0020	<0.0020	0.0030	ND	0.0030	0.0030	<0.0020	<0.0020	<0.0020
CHLOR A mg/M3	Avg	0.2856	0.4843	0.2778	0.3000	0.4700	0.6771	0.3843	0.4057	0.4188	0.7211	0.4830	0.3625[1]
	Max	0.4500	0.9100	0.4700	0.5000	1.0700	1.1400	0.7400	0.6800	0.5300	1.1300	0.7500	0.5500
	Min	0.1200	0.2100	<0.1600	0.2000	0.1700	0.2700	<0.1600	0.2400	0.2600	0.3600	0.2200	0.0300
SAL PSU.	Avg	30.3027	31.6038	32.5308	33.7833	34.9683	34.3650	33.7160	34.4467	32.6173	28.9850	29.5808	30.0482
	Max	32.8000	33.9000	34.6000	35.6000	38.3000	37.8000	37.5000	37.3000	36.3000	32.1000	33.5900	33.9200
	Min	28.6000	22.3000	28.3000	32.6000	31.2000	29.8000	26.3000	23.0000	25.9000	25.6000	23.8000	24.2000
TOC mg/L	Avg	3.7000	7.2700	4.4000	4.0867	4.6667	6.4400	ND	ND	7.5400	7.1600	4.7000	7.4900
	Max	3.7000	7.2700	6.3000	4.7300	5.4000	6.4400	ND	ND	7.5400	8.0700	4.7000	7.4900
	Min	3.7000	7.2700	2.5000	2.8000	3.2000	6.4400	ND	ND	7.5400	6.2500	4.7000	7.4900

Table 2.3-31 (Sheet 2 of 22)
Biscayne Bay Water Quality

Sample Location BB47 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (≥ 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	18.3100	20.6708	21.6294	24.7262	26.3800	29.0569	30.0345	30.4726	29.2524	27.7729	24.8514	22.3914
	Max	24.0500	23.7200	27.1400	26.8700	28.4500	30.9000	31.7900	31.9000	30.4200	30.5900	28.3100	26.2300
	Min	13.4200	15.8100	17.8500	22.7600	22.9600	27.7200	28.1400	29.1600	27.2000	25.0100	22.2000	16.0500
D.O mg/L	Avg	7.6719	7.2323[1]	6.8767	6.4231	6.2394	5.6738	5.5256	5.3537	5.2850	5.8271	6.5114	6.6150
	Max	8.4600	8.0000	7.8300	7.0800	7.2700	6.9400	6.0400	5.8900	6.1400	6.7400	7.2500	8.1600
	Min	6.4900	1.2500	5.2300	5.9400	5.4900	4.9700	4.6100	3.3700	4.5800	5.3200	4.3400	4.8800
PH UNITS	Avg	8.0319	8.0417	8.0567	8.0669	8.1829	7.9863	8.0500	7.9189	7.9433	7.8700	8.0136	8.0208
	Max	8.1700	8.3000	8.3400	8.2500	8.4400	8.2100	8.1700	8.1600	8.1100	8.0000	8.1300	8.2200
	Min	7.8700	7.8700	7.7500	7.7800	7.8200	7.6300	7.8200	7.0400	7.7200	7.7000	7.8300	7.7800
TURB NTU	Avg	0.9650	0.9167	0.6550	0.5900	0.8357	0.3300[1]	0.4310	0.5257	0.5629	0.6065	0.4600	0.3500
	Max	1.7000	2.2000	1.4600	1.5000	2.3000	7.6000	1.0000	1.3000	2.4000	1.6000	1.1000	0.5000
	Min	0.1300	<0.1000	0.1000	0.1600	0.1000	0.2000	0.1100	0.2540	0.1900	0.1100	<0.1000	0.1000
NOX mg/L	Avg	0.0183	0.0171	0.0163	0.0120	0.0143	0.0133	0.0164	0.0150	0.0157	0.0320	0.0533	0.0420
	Max	0.0400	0.0600	0.0500	0.0200	0.0200	0.0200	0.0400	0.0300	0.0300	0.0700	0.1300	0.1000
	Min	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0200	0.0100
NH4 mg/L	Avg	0.0700	0.0529	0.0625	0.0640	0.0729	0.0600	0.0636	0.0382	0.0514	0.0680	0.0500	0.0620
	Max	0.1600	0.1100	0.1000	0.1300	0.1300	0.1300	0.1100	0.0900	0.0800	0.1400	0.0900	0.0900
	Min	0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0300	0.0200	0.0092	<0.0100	0.0200	0.0100	0.0300
TKN mg/L	Avg	ND	ND	ND	ND	ND	ND	<0.0800	ND	ND	ND	ND	ND
	Max	ND	ND	ND	ND	ND	ND	<0.0800	ND	ND	ND	ND	ND
	Min	ND	ND	ND	ND	ND	ND	<0.0800	ND	ND	ND	ND	ND
OPO4 mg/L	Avg	ND	ND	ND	ND	ND	ND	<0.0020	ND	ND	ND	ND	ND
	Max	ND	ND	ND	ND	ND	ND	<0.0020	ND	ND	ND	ND	ND
	Min	ND	ND	ND	ND	ND	ND	<0.0020	ND	ND	ND	ND	ND
TPO4 mg/L	Avg	0.0028	0.0022	0.0018	0.0030	0.0018	0.0028	0.0017	0.0028	0.0030	0.0018	0.0024	0.0018
	Max	0.0040	0.0040	0.0030	0.0050	0.0030	0.0030	0.0030	0.0070	0.0060	0.0020	0.0080	0.0030
	Min	<0.0010	<0.0010	<0.0001	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
CHLOR A mg/M3	Avg	ND	ND	0.2300	ND	0.6400	ND	0.5500	ND	ND	ND	ND	ND
	Max	ND	ND	0.2300	ND	0.6400	ND	0.5500	ND	ND	ND	ND	ND
	Min	ND	ND	0.2300	ND	0.6400	ND	0.5500	ND	ND	ND	ND	ND
SAL PSU.	Avg	30.7763	32.3521	32.7250	34.4331	35.7369	35.1725	34.2124	35.0279	33.2212	30.3486	29.1564	30.0264
	Max	32.9000	34.1000	36.0000	35.9000	38.3000	37.9000	37.5000	37.4000	36.3000	33.9000	35.0400	33.9200
	Min	28.6000	28.4000	28.3000	32.9000	31.7000	29.8000	26.3000	27.9000	25.9000	25.5000	23.9000	24.5000
TOC mg/L	Avg	ND	ND	ND	ND	ND	ND	4.1700	ND	ND	ND	ND	ND
	Max	ND	ND	ND	ND	ND	ND	4.1700	ND	ND	ND	ND	ND
	Min	ND	ND	ND	ND	ND	ND	4.1700	ND	ND	ND	ND	ND

Table 2.3-31 (Sheet 3 of 22)
Biscayne Bay Water Quality

Sample Location BB48 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (< 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	17.6973	21.1818	21.0258	23.4945	25.9492	28.3742	29.7460	30.4575	29.0818	27.7775	25.6900	21.0627
	Max	23.5500	23.6900	24.4800	26.6900	28.6400	30.9800	31.4700	31.5800	30.0900	30.1000	28.1400	25.9400
	Min	13.4300	16.6900	18.1300	16.0000	16.0000	16.0000	27.7000	28.9400	26.6400	25.6600	21.6100	15.3500
D.O mg/L	Avg	7.7170	7.3211[1]	7.1300	6.3727	6.1267	5.3442	5.2833	5.1058	5.2473	5.8608	6.5033	7.0782
	Max	8.3800	7.8600	8.0500	7.3400	6.7000	6.7100	6.0200	6.2700	5.7200	6.3000	7.0500	8.5300
	Min	6.8200	0.2500	5.8300	5.8100	5.4700	4.6500	4.0800	4.4300	4.3200	5.0600	5.9100	5.9700
PH UNITS	Avg	8.0842	8.1064	8.1283	8.0855	8.1873	8.0017	8.0967	7.9417	7.9120	7.9200	8.0300	8.0610
	Max	8.2500	8.2200	8.4000	8.2800	8.4900	8.2800	8.2200	8.2100	8.1400	8.0000	8.1100	8.2600
	Min	7.8500	7.8700	7.7600	7.8100	7.8000	7.6100	7.9500	7.1800	7.8000	7.7100	7.9200	7.7700
TURB NTU	Avg	0.8333	0.3000	0.5333	0.4300	0.4667	0.6000	ND	0.4000	0.4000	0.5500	0.3000	0.2667
	Max	1.0000	0.3000	0.6000	0.6900	0.8000	1.0000	ND	0.4000	0.4000	0.8000	0.3000	0.3000
	Min	0.5000	0.3000	0.5000	0.3000	0.3000	0.4000	ND	0.4000	0.4000	0.3000	0.3000	0.2000
SAL PSU.	Avg	28.2717	29.7725	30.1183	32.1200[1]	33.2775	32.3208	30.9380	32.1108	30.0736	26.8625	27.0117	27.6955
	Max	30.7000	32.8000	34.1000	33.8000	38.5000	38.1000	36.0000	35.9000	34.1000	31.8000	33.0700	31.9300
	Min	23.9000	24.2000	23.9000	5.2000	28.4000	25.6300	24.1000	21.5000	20.5000	21.3000	21.6000	22.1000
Sample Location BB48 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (≥ 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	18.0313	20.7964	21.8547	24.5714	26.3725	29.0356	29.9095	30.2221	28.8871	27.6479	24.5329	22.4200
	Max	23.9700	23.7100	27.3100	26.6900	28.6000	31.0000	31.4500	31.5700	30.1100	30.3200	28.1300	26.1200
	Min	13.4700	16.7000	18.1200	22.9600	22.8900	27.3800	27.7800	28.9300	26.6500	25.6600	21.6000	15.3600
D.O mg/L	Avg	7.5950	6.9500	6.9395	6.3029	6.0438	5.5863	5.2856	5.3663	5.1412	5.8307	6.7486	6.8243
	Max	8.2000	8.0600	7.9200	6.9400	6.8200	6.7300	5.9300	6.6600	6.0300	6.9600	7.4100	8.5600
	Min	6.7400	1.6700	5.6000	5.7100	5.0200	4.8400	4.0800	4.6500	4.3300	5.2000	6.4400	5.9500
PH UNITS	Avg	8.0588	8.0950	8.0921	8.0993	8.1829	8.0300	8.0779	7.9632	7.9380	7.8671	8.0292	8.0500
	Max	8.2500	8.2600	8.4000	8.2800	8.4900	8.2900	8.2200	8.2100	8.1200	7.9400	8.1100	8.2600
	Min	7.8400	7.8700	7.7500	7.7800	7.8000	7.6100	7.8000	7.1800	7.8000	7.6800	7.9100	7.7800
TURB NTU	Avg	0.7667	0.4600[1]	0.8714	1.5817	0.8957	0.6780	0.5740	0.8043	0.5171	0.5595	0.9800	0.3500
	Max	1.8000	21.0000	1.5000	7.7000	2.2000	1.4000	1.7000	2.2000	1.0200	1.0000	3.2000	0.6000
	Min	0.1500	<0.1000	0.2400	0.1100	0.1000	0.2000	0.1400	0.2000	0.3000	<0.1000	<0.1000	<0.1000
SAL PSU.	Avg	28.5381	30.3819	30.7100	32.1179	34.3644	33.4969	31.4376	32.0126	30.4829	27.0400	26.7107	27.2943
	Max	31.2000	32.8000	34.5000	33.9000	38.7000	38.1000	36.1000	35.2000	34.4000	31.9000	33.1100	31.9900
	Min	25.8000	25.7000	23.9000	29.3000	28.9000	25.3500	25.0000	24.8000	20.4000	21.6000	21.9000	22.3000

Table 2.3-31 (Sheet 4 of 22)
Biscayne Bay Water Quality

Sample Location BISC 101 – Average, Maximum and Minimum Monthly Results for 1993-2010
Depth (< 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	18.5679	22.0995	22.7684	25.5142	28.2800	29.4306	31.0459	30.4417	28.8806	27.0705	23.2900	20.8184
	Max	24.8000	25.9400	28.9000	28.6000	31.0000	32.8700	32.8000	32.8000	30.3000	30.3000	27.4000	27.3000
	Min	9.0100	19.6600	18.4800	20.7000	24.6600	27.3700	29.3200	27.3000	27.5800	23.4000	18.6800	11.9800
D.O mg/L	Avg	8.1205	6.8721	6.6547	7.0644	6.5975	6.2056	6.1365	5.3300	5.9600	6.5200	7.6989	7.9789
	Max	9.8000	9.3000	8.7000	8.0200	8.6000	10.8000	8.6000	7.0000	7.6000	8.3400	9.3300	9.5900
	Min	4.3000	3.7300	3.9600	4.9000	4.4000	4.4000	2.9700	3.1000	4.4000	4.4000	6.1000	6.7000
PH UNITS	Avg	8.1340	8.1873	8.2033	7.9930	8.2750	8.1370	8.0667	8.0778	7.9589	8.0760	8.0630	8.1680
	Max	8.7000	8.3900	8.5000	8.4000	8.4000	8.5000	8.4000	8.5000	8.0000	8.4000	8.3000	8.3000
	Min	8.0200	8.0600	8.0300	7.2000	8.1000	8.0000	7.9000	7.9000	7.8000	7.9000	8.0000	8.0000
TURB NTU	Avg	0.6915	0.8234	0.6503	0.5540	0.5975	0.7930	0.6979	0.6554	1.1553	1.6212	0.6168	0.8765
	Max	1.5000	4.2000	1.3000	1.2000	1.2000	3.5000	1.2000	1.8000	3.7000	11.5000	1.1000	2.5000
	Min	0.2350	0.2000	0.1300	0.1000	0.2000	0.2700	0.3000	0.2000	0.2000	0.2000	0.2000	0.1000
NOX mg/L	Avg	0.1471	0.0835	0.0402	0.0334	0.0093	0.2699	0.0640	0.1977	0.1794	0.2980	0.2312	0.1582
	Max	0.2892	0.3206	0.2096	0.2467	0.0286	1.1027	0.2557	0.8223	0.5713	1.2010	0.4284	0.3920
	Min	0.0050	0.0052	0.0015	0.0009	0.0006	0.0008	0.0009	0.0025	0.0077	0.0101	0.0020	0.0193
NO2 mg/L	Avg	0.0040	0.0025	0.0021	0.0014	0.0011	0.0084	0.0036	0.0072	0.0082	0.0097	0.0103	0.0071
	Max	0.0078	0.0058	0.0062	0.0052	0.0023	0.0204	0.0097	0.0196	0.0166	0.0278	0.0319	0.0162
	Min	0.0007	0.0002	0.0005	0.0001	<0.0003	0.0006	0.0007	0.0010	0.0011	0.0012	0.0024	0.0006
NH4 mg/L	Avg	0.0318	0.0197	0.0141	0.0189	0.0105	0.0466	0.0230	0.0399	0.0496	0.0466	0.0526	0.0362
	Max	0.0900	0.0700	0.0700	0.0600	0.0162	0.1257	0.0550	0.0881	0.0765	0.1034	0.1200	0.0927
	Min	0.0019	0.0046	0.0022	0.0021	0.0057	0.0069	0.0050	0.0066	0.0079	0.0038	0.0020	0.0036
TKN mg/L	Avg	0.2880	0.2443	0.1100	0.1033	0.2500	0.3050	0.5800	0.2367	0.3575	0.2403	0.4338	0.3050
	Max	0.7120	0.3870	0.1400	0.1200	0.2500	0.3600	0.5800	0.5500	0.4600	0.5100	0.8250	0.3900
	Min	<0.0800	0.1400	<0.0800	0.0700	0.2500	0.2500	0.5800	<0.0800	0.2700	<0.0800	0.2700	0.2200
OPO4 mg/L	Avg	0.0013	0.0014	0.0016	0.0016	0.0012	0.0038	0.0016	0.0016	0.0015	0.0025	0.0013	0.0016
	Max	0.0028	0.0022	0.0029	0.0024	<0.0020	0.0139	0.0039	0.0040	0.0029	0.0076	0.0026	0.0037
	Min	0.0001	0.0003	0.0001	0.0003	0.0002	0.0001	0.0003	0.0004	0.0002	0.0004	0.0001	0.0003
TPO4 mg/L	Avg	0.0055	0.0041	0.0038	0.0039	0.0042	0.0073	0.0059	0.0060	0.0078	0.0093	0.0062	0.0063
	Max	0.0139	0.0067	0.0112	0.0125	0.0072	0.0160	0.0142	0.0158	0.0253	0.0367	0.0126	0.0213
	Min	<0.0020	0.0020	0.0010	0.0004	<0.0020	<0.0020	0.0024	0.0031	0.0019	<0.0020	0.0020	<0.0020
SIO2 mg/L	Avg	0.1853	ND	0.0280	0.0795	0.1465	ND	0.1401	0.1740	ND	0.4766	0.1890	ND
	Max	0.7080	ND	0.0280	0.1760	0.2550	ND	0.2770	0.1740	ND	0.8588	0.1890	ND
	Min	0.0120	ND	0.0280	0.0330	0.0580	ND	0.0330	0.1740	ND	0.0620	0.1890	ND
CHLOR A mg/M3	Avg	0.3717	0.4875	0.4246	0.3090	0.3843	0.4611	0.4202	0.4007	0.5697	0.5587	0.4153	0.3900
	Max	<1.000	1.3000	1.2000	<1.0000	1.2962	1.0532	0.9400	0.9400	1.5300	1.7000	<1.0000	<1.0000
	Min	0.2000	0.1000	0.1000	0.1000	0.2000	0.2000	0.2000	0.1845	0.1000	0.1000	0.1000	<0.1600
NO3 mg/L	Avg	0.1363	0.0636	0.0316	0.0341	0.0085	0.2575	0.0862	0.2189	0.1927	0.3259	0.1911	0.1555
	Max	0.2819	0.3149	0.2035	0.2415	0.0272	1.0823	0.2464	0.8027	0.5548	1.1732	0.4152	0.3758
	Min	0.0123	0.0043	0.0008	0.0002	0.0006	0.0003	0.0004	0.0015	0.0066	0.0079	0.0020	0.0175
TOT N MG N/L	Avg	0.4658	0.3450	0.2837	0.4118	0.3379	0.3907	0.3433[1]	0.6025[1]	0.4575[1]	0.5408	0.5100	0.6548
	Max	0.5900	0.4800	0.5500	0.5519	0.4500	0.6400	21.4900	12.7500	36.7900	0.7723	0.8100	0.9915
	Min	0.3900	0.2672	0.1419	0.1800	0.1536	0.2122	0.3200	0.3200	0.2700	0.4000	0.3300	0.2200
SAL. psu	Avg	26.4125	29.1090	31.0905	33.8485	36.6753	31.2989	31.6559	29.6739	27.1182	22.1055	21.9450	24.5725
	Max	30.5300	35.5600	37.0000	40.7000	40.8000	41.2000	40.7000	36.1000	36.4000	29.6000	30.1900	29.2000
	Min	16.9000	24.0000	24.5000	26.9700	28.7000	12.3000	4.8100	19.7000	13.9000	13.3200	12.8000	15.7000
TOC mg/L	Avg	4.0092	3.8756	4.1833	4.7064	5.5589	4.1780	5.6723	5.1050	5.4307	4.3477	4.4554	4.0300
	Max	5.1600	4.9200	7.6100	6.9400	13.0900	5.3900	10.7000	7.7800	9.7000	6.4900	6.9700	5.4900
	Min	3.0800	2.8800	2.3400	3.2200	2.7000	2.9000	2.7400	3.2600	3.1400	3.3200	3.0500	3.0000
AlkPO4 nM/minmL	Avg	0.2381	0.5824	0.2627	0.3615	0.4881	0.3715	0.4326	0.4292	0.4036	0.3307	0.2860	0.2318
	Max	0.5333	3.2000	0.4500	0.8800	0.8673	0.7418	0.9900	0.8900	0.7600	0.6600	0.6864	0.4750
	Min	0.1197	0.1600	0.1400	0.1300	0.2100	0.1400	0.2000	0.2137	0.0900	0.1425	0.1200	0.1300

Sample Location BISC101 – Average, Maximum and Minimum Monthly Results for 1993-2010
Depth (> 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	18.9677	22.3275	23.6300	26.1600	28.7643	29.5233	31.0775	30.9185	29.6562	27.6036	23.4321	21.7829
	Max	24.9000	24.8000	28.9000	28.6000	31.0000	32.9800	32.8000	32.9000	31.0000	31.1000	27.5000	27.3000
	Min	9.1800	19.6300	18.8800	20.6000	25.8000	27.5000	29.3300	27.5000	27.6300	23.4000	19.1500	12.2600
D.O mg/L	Avg	7.9269	7.8325	7.1575	6.8625	7.8786	6.5273	6.6583	5.3777	6.0346	7.0071	7.8600	7.7957
	Max	10.1000	9.6000	9.7000	8.6000	12.9000	10.7000	8.7000	7.2000	10.9000	12.0000	9.7000	9.2400
	Min	3.8000	3.3900	3.9200	4.9000	4.6000	4.6000	3.0000	3.7000	4.3000	4.9000	6.3000	7.0000
PH UNITS	Avg	8.0200	8.1100	8.1400	8.1500	ND	8.0900	7.8600	8.0300	7.9600	8.0100	8.1000	8.1900
	Max	8.0200	8.1100	8.1400	8.1500	ND	8.0900	7.8600	8.0300	7.9600	8.0100	8.1000	8.1900
	Min	8.0200	8.1100	8.1400	8.1500	ND	8.0900	7.8600	8.0300	7.9600	8.0100	8.1000	8.1900
SAL. psu	Avg	26.6377	28.2408	30.3494	34.1107	35.5533	32.0823	30.4350	30.7385	27.4754	25.8550	21.5950	24.6814
	Max	29.5000	36.0000	37.1000	40.7000	40.9000	41.3000	40.7000	37.5000	36.4000	30.3000	28.2000	30.6000
	Min	23.4000	24.0000	25.0000	27.2600	30.5000	22.9000	18.8200	22.4000	13.9000	20.6000	12.7000	17.8000

Table 2.3-31 (Sheet 5 of 22)
Biscayne Bay Water Quality

Sample Location BISC113 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (< 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	19.9877	21.1533	23.0807	25.1092	27.3739	28.5800	30.6350	30.4962	29.5300	26.9967	23.8443	22.0829
	Max	23.9700	23.8000	28.3000	27.8000	30.3000	31.2000	31.6100	32.3000	31.2000	29.1000	25.9000	26.6000
	Min	15.4000	18.3000	19.6000	20.6000	24.5800	27.0000	29.2000	28.3000	28.8000	23.6000	20.5000	18.0000
D.O mg/L	Avg	6.9215	7.0525	6.6514	6.4554	6.1877	5.8450	5.5900	5.7377	5.7908	6.0373	6.7193	7.0700
	Max	7.9000	8.2000	8.3000	7.1000	7.4000	7.0000	6.5000	6.5000	7.9600	7.3900	7.7000	9.0100
	Min	4.5000	6.2000	4.2000	5.8000	5.0000	5.0000	4.6000	5.2000	4.8000	5.1000	6.3000	6.1000
PH UNITS	Avg	8.2250	8.1950	8.1650	7.9075	8.2640	8.1760	8.2120	8.2120	8.0240	8.1080	8.0300	7.9940
	Max	8.7000	8.3400	8.4000	8.4000	8.3100	8.5000	8.4000	8.8000	8.2000	8.4000	8.2000	8.1000
	Min	8.0000	8.0000	8.0300	7.6600	8.1000	8.0000	8.0800	8.0000	7.9000	7.9100	7.9000	7.9000
TURB NTU	Avg	1.0875	0.7736	0.8396	0.8458	0.7963	0.7868	0.9100	0.6650	0.9100	1.0000	1.4519	1.1667
	Max	2.0500	1.5000	1.7000	1.8000	1.8000	1.5000	2.1000	1.0000	1.6000	1.8000	4.5000	2.6000
	Min	0.1000	0.1000	0.3000	0.3000	0.4000	0.2000	0.3100	0.3000	0.5000	0.3000	0.1000	0.4000
NOX mg/L	Avg	0.0100	0.0063	0.0052	0.0047	0.0053	0.0322	0.0093	0.0106	0.0149	0.0156	0.0205	0.0157
	Max	0.0434	0.0100	0.0082	0.0114	0.0078	0.2118	0.0190	0.0202	0.0263	0.0617	0.0965	0.0505
	Min	0.0027	0.0015	0.0027	0.0019	0.0027	0.0067	0.0036	0.0036	0.0013	0.0042	0.0027	0.0059
NO2 mg/L	Avg	0.0010	0.0011	0.0010	0.0007	0.0009	0.0019	0.0012	0.0015	0.0015[1]	0.0015	0.0016	0.0013
	Max	0.0015	0.0020	0.0030	0.0014	0.0012	0.0064	0.0022	0.0023	8.0000	0.0030	0.0040	0.0030
	Min	0.0006	0.0005	0.0001	0.0002	<0.0003	0.0008	0.0007	0.0004	0.0008	0.0006	0.0006	<0.0003
NH4 mg/L	Avg	0.0114	0.0135	0.0098	0.0107	0.0143	0.0224	0.0229	0.0286	0.0321	0.0270	0.0266	0.0211
	Max	0.0193	0.0268	0.0258	0.0183	0.0236	0.0333	0.0411	0.0453	0.0513	0.0440	0.0542	0.0364
	Min	0.0073	0.0057	0.0028	0.0069	0.0067	0.0155	0.0068	0.0121	0.0214	0.0123	0.0078	0.0060
TKN mg/L	Avg	0.1400	0.1390	ND	ND	ND	ND	ND	ND	ND	0.1735	0.1880	0.1230
	Max	0.1400	0.1390	ND	ND	ND	ND	ND	ND	ND	0.1820	0.1880	0.1230
	Min	0.1400	0.1390	ND	ND	ND	ND	ND	ND	ND	0.1650	0.1880	0.1230
OPO4 mg/L	Avg	0.0005	0.0006	0.0009	0.0011	0.0008	0.0009	0.0012	0.0009	0.0011	0.0007	0.0007	0.0012
	Max	<0.0009	<0.0016	0.0024	<0.0019	0.0022	0.0028	0.0044	0.0018	0.0041	0.0014	0.0015	0.0033
	Min	0.0001	0.0001	0.0001	0.0002	0.0001	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001
TPO4 mg/L	Avg	0.0055	0.0045	0.0033	0.0046	0.0048	0.0074	0.0072	0.0065	0.0059	0.0067	0.0058	0.0058
	Max	0.0130	0.0064	0.0051	0.0118	0.0068	0.0179	0.0132	0.0126	0.0198	0.0309	0.0126	0.0133
	Min	0.0033	0.0032	0.0020	0.0020	0.0026	0.0032	0.0021	0.0032	0.0022	0.0032	0.0032	0.0025
SIO2 mg/L	Avg	0.0150	ND	0.0070	0.0107	0.0150	ND	0.0572	0.0280	ND	0.0324	<0.0020	ND
	Max	0.0300	ND	0.0070	0.0170	0.0330	ND	0.1000	0.0280	ND	0.0670	<0.0020	ND
	Min	0.0010	ND	0.0070	<0.0020	0.0050	ND	0.0280	0.0280	ND	0.0100	<0.0020	ND
CHLOR A mg/M3	Avg	0.2944	0.3522	0.3089	0.2244	0.2532	0.3464	0.2579	0.2257	0.2499	0.3885	0.3283	0.3592
	Max	0.6500	1.1000	1.0000	0.8437	1.0389	1.2105	0.3185	0.4000	0.4000	0.9700	0.6400	0.8100
	Min	0.1000	<0.1000	0.1000	0.1000	0.1000	0.1000	0.1610	0.2000	0.1000	<0.1000	0.2000	0.2000
NO3 mg/L	Avg	0.0097	0.0060	0.0039	0.0041	0.0044	0.0276	0.0078	0.0091	0.0144	0.0135	0.0183	0.0131
	Max	0.0419	0.0088	0.0072	0.0114	0.0067	0.2054	0.0168	0.0191	0.0233	0.0590	0.0933	0.0482
	Min	0.0019	0.0023	0.0012	0.0016	0.0017	0.0036	0.0022	0.0023	0.0089	0.0030	0.0015	0.0053
TOT N MG N/L	Avg	0.3150	ND	0.2032	0.2273	0.2278	0.2200	0.2167[1]	0.3350[1]	0.2025[1]	0.2950	0.3267	0.1733
	Max	0.4000	ND	0.3100	0.4700	0.3000	0.3200	13.8000	19.3300	24.7800	0.4300	0.6100	0.2900
	Min	0.2300	ND	0.0775	0.1000	0.1235	0.1200	0.1900	0.2100	0.1600	0.1600	0.1400	0.0900
SAL. psu	Avg	34.8614	35.2639	36.7027	37.8950	38.0557	36.0923	36.4900	36.0885	35.6483	33.7900	33.5567	33.6133
	Max	36.5100	37.2200	37.8000	39.3000	40.4000	39.9000	41.4000	38.5800	37.9400	37.1000	37.5300	36.9700
	Min	33.3000	32.4000	34.8000	35.7000	36.2000	28.1000	31.6000	31.6000	30.8000	31.3000	27.5000	23.5000
TOC mg/L	Avg	2.6510	2.7689	2.4291	2.7810	3.8050	2.9100	3.3350	2.9091	2.8480	2.5342	2.7036	2.5833
	Max	3.1600	4.0500	4.1400	4.8200	8.8100	4.1900	5.5500	3.8600	4.9800	3.7300	4.2500	3.2800
	Min	2.0000	1.9000	1.6800	1.4000	2.3200	2.0000	2.2400	1.7500	1.7400	1.5100	2.0300	2.0200
AlkPO4 nM/minmL	Avg	0.0749	0.1715	0.0938	0.1397	0.1805	0.2105	0.2162	0.2119	0.1248	0.1410	0.1055	0.0914
	Max	0.1200	0.8000	0.1500	0.2600	0.2400	0.2900	0.3073	0.3500	0.1900	0.2700	0.1500	0.1700
	Min	0.0388	0.0374	0.0543	0.0700	0.1300	0.1051	0.0900	0.1113	0.0400	0.0600	0.0400	0.0400
Sample Location BISC 113 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (≥ 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	19.3000	21.2636	23.2667	25.5000	28.0143	28.5833	30.5000	30.4462	29.5500	27.0385	23.6308	22.1231
	Max	23.4000	23.8000	28.3000	27.8000	30.3000	31.2000	31.3000	32.4000	31.3000	28.9000	25.9000	26.6000
	Min	15.2000	18.0000	19.6000	20.6000	25.1000	27.0000	29.2000	28.3000	28.9000	23.6000	20.5000	18.0000
D.O mg/L	Avg	6.8667	7.1364	6.7000	6.3214	6.2000	5.9000	5.6667	5.6846	5.5417	5.7692	6.9538	6.7308
	Max	8.1000	8.3000	8.4000	6.9000	7.4000	7.0000	6.5000	6.3000	6.9000	6.8000	8.2000	7.2000
	Min	3.9000	6.2000	4.1000	5.7000	5.2000	4.8000	4.5000	5.1000	4.6000	5.1000	6.4000	6.0000
SAL. psu	Avg	34.5417	34.8455	36.1867	37.6133	37.9067	35.8692	36.0667	35.2385	34.7833	33.5615	33.3692	33.7154
	Max	35.9000	37.0000	37.9000	39.3000	40.0000	39.9000	41.5000	38.6000	37.2000	37.1000	36.3000	35.7000
	Min	33.3000	32.4000	33.0000	35.7000	36.0000	28.0000	31.5000	31.6000	30.7000	31.3000	28.7000	29.7000

Table 2.3-31 (Sheet 6 of 22)
Biscayne Bay Water Quality

Sample Location BISC 116 – Average, Maximum and Minimum Monthly Results for 1993-2010
Depth (< 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	19.6054	21.4983	23.2286	25.0369	27.5185	28.6450	30.8100	30.5700	29.6067	26.9253	23.9579	22.1886
	Max	23.6000	23.9000	28.4000	28.0000	30.6000	31.1000	32.2000	32.3000	31.6000	29.1000	26.5000	26.2000
	Min	15.5000	18.7000	19.4000	20.1000	24.5200	27.2000	28.9000	28.3000	28.7000	23.3000	20.8000	17.9000
D.O mg/L	Avg	7.0985	7.0183	6.4529	6.4938	6.2462	5.5083	5.2633	5.2792	5.1950	5.9267	6.5936	6.8993
	Max	8.6300	7.9000	7.3000	7.9600	7.7000	7.0000	6.3000	6.5000	6.1000	7.7000	7.8000	8.8500
	Min	4.4000	6.4000	3.9000	5.4000	5.3000	4.8500	3.8000	4.3000	2.8000	4.4000	5.8000	5.6000
PH UNITS	Avg	8.2050	8.1950	8.1850	7.7250	8.2880	8.1360	8.1400	8.0740	7.9560	8.0960	8.0020	7.9880
	Max	8.6000	8.3400	8.5000	8.4000	8.3700	8.5000	8.4000	8.7000	8.1000	8.4000	8.2000	8.2000
	Min	8.0100	8.0000	8.0200	7.3000	8.2000	8.0000	8.0000	7.9000	7.8400	7.9000	7.9000	7.9000
TURB NTU	Avg	1.6571	1.1259	1.0738	0.9200	0.7479	0.8545	0.8264	0.6067	0.7782	1.4929	1.5162	1.2962
	Max	5.3000	2.8000	3.0000	1.9000	2.4000	2.2000	2.8000	1.8000	1.8000	4.9000	5.3000	5.9000
	Min	0.1000	0.4000	0.3000	0.3000	0.1000	0.2000	0.4000	0.2000	0.4000	0.4000	0.3000	0.1000
NOX mg/L	Avg	0.0145	0.0083	0.0053	0.0053	0.0057	0.0100	0.0080	0.0124	0.0150	0.0468	0.0280	0.0177
	Max	0.0757	0.0160	0.0110	0.0112	0.0082	0.0139	0.0247	0.0254	0.0231	0.2399	0.1117	0.0464
	Min	0.0021	0.0026	0.0025	0.0019	0.0028	0.0039	0.0009	0.0038	0.0086	0.0056	0.0071	0.0047
NO2 mg/L	Avg	0.0011	0.0012	0.0009	0.0007	0.0010	0.0014	0.0014	0.0015	0.0013[1]	0.0027	0.0019	0.0015
	Max	0.0021	0.0021	0.0023	0.0019	0.0015	0.0019	0.0030	0.0030	8.0000	0.0078	0.0040	0.0040
	Min	0.0006	0.0005	0.0001	<0.0003	<0.0003	0.0008	0.0007	0.0003	0.0004	0.0008	0.0002	<0.0003
NH4 mg/L	Avg	0.0073	0.0084	0.0073	0.0062	0.0097	0.0110	0.0108	0.0130	0.0151	0.0230	0.0134	0.0128
	Max	0.0123	0.0190	0.0203	0.0120	0.0175	0.0163	0.0209	0.0284	0.0214	0.0686	0.0194	0.0278
	Min	0.0028	0.0020	0.0016	0.0022	0.0043	0.0050	<0.0008	0.0051	0.0087	0.0054	0.0043	0.0009
TKN mg/L	Avg	0.1440	0.1800	ND	ND	ND	ND	ND	ND	ND	0.1315	0.1850	0.1410
	Max	0.1440	0.1800	ND	ND	ND	ND	ND	ND	ND	0.1380	0.1850	0.1410
	Min	0.1440	0.1800	ND	ND	ND	ND	ND	ND	ND	0.1250	0.1850	0.1410
OPO4 mg/L	Avg	0.0005	0.0006	0.0006	0.0010	0.0008	0.0011	0.0010	0.0013	0.0011	0.0009	0.0007	0.0010
	Max	0.0010	<0.0016	<0.0016	0.0020	0.0014	0.0023	0.0042	0.0047	0.0034	0.0019	0.0019	0.0031
	Min	0.0002	0.0002	0.0001	0.0001	0.0002	0.0003	0.0001	0.0002	0.0003	0.0002	0.0001	0.0001
TPO4 mg/L	Avg	0.0050	0.0046	0.0035	0.0046	0.0054	0.0057	0.0063	0.0061	0.0086	0.0065	0.0062	0.0061
	Max	0.0092	0.0069	0.0053	0.0119	0.0106	0.0116	0.0119	0.0123	0.0302	0.0203	0.0138	0.0168
	Min	0.0028	0.0021	0.0019	0.0018	0.0028	0.0024	0.0017	0.0031	0.0020	0.0035	0.0039	0.0028
SIO2 mg/L	Avg	0.0522	ND	0.0180	0.0175	0.0250	ND	0.0684	0.0490	ND	0.0178	0.0020	ND
	Max	0.3380	ND	0.0180	0.0271	0.0470	ND	0.1270	0.0490	ND	0.0640	0.0020	ND
	Min	0.0020	ND	0.0180	0.0045	0.0070	ND	0.0400	0.0490	ND	<0.0020	0.0020	ND
CHLOR A mg/M3	Avg	0.4233	0.4111	0.3004	0.2125	0.2416	0.2847	0.2062	0.2155	0.2102	0.4623	0.3650	0.3317
	Max	1.3000	1.5000	1.2000	0.8247	1.1986	0.9317	0.6000	0.4000	0.3000	1.5000	0.6800	0.8000
	Min	0.1000	<0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	<0.1000	0.2000	0.2000
NO3 mg/L	Avg	0.0127	0.0063	0.0041	0.0047	0.0046	0.0081	0.0070	0.0109	0.0137	0.0394	0.0267	0.0154
	Max	0.0736	0.0102	0.0087	0.0112	0.0073	0.0120	0.0217	0.0251	0.0212	0.2321	0.1085	0.0425
	Min	0.0008	0.0020	0.0015	0.0015	0.0024	0.0031	0.0032	0.0027	0.0061	0.0045	0.0057	0.0040
TOT N MG N/L	Avg	0.3150	ND	ND	0.2348	0.2269	0.2700	0.2200[1]	0.3300[1]	0.2125[1]	0.2433	0.3267	0.2000
	Max	0.3700	ND	ND	0.4800	0.3200	0.4300	16.8600	19.7300	14.3100	0.4100	0.4900	0.3400
	Min	0.2600	ND	ND	0.0800	0.1407	0.1100	0.1600	0.2000	0.1900	0.1500	0.2200	0.0800
SAL. psu	Avg	34.0479	34.7500	35.9567	37.6500	37.5843	36.0892	36.0767	35.4869	34.9817	31.7469	32.4173	33.5167
	Max	36.4900	37.0800	37.7800	39.2000	39.0000	38.5000	39.0000	37.9000	36.7000	36.0000	35.9100	36.3800
	Min	32.0000	30.9000	31.4000	36.1000	36.3000	34.2000	30.7000	32.7000	30.8000	25.6000	25.4000	30.0000
TOC mg/L	Avg	2.8100	2.9722	2.6682	2.6140	3.6200	2.8478	2.9270	2.9336	2.8200	2.9567	2.9464	2.9089
	Max	3.3000	3.6300	4.3800	4.7500	8.7600	5.0600	4.3800	3.9700	3.9100	4.8400	4.7300	3.8500
	Min	1.9900	2.0600	1.9600	1.1200	2.1700	1.8900	1.8700	1.6500	1.7100	1.4100	1.5500	1.9700
AlkPO4 nM/minmL	Avg	0.0865	0.1672	0.0949	0.1130	0.1336	0.1498	0.1549	0.1226	0.1232	0.1499	0.1126	0.0887
	Max	0.1600	0.8000	0.1400	0.1600	0.1900	0.2200	0.2500	0.1807	0.2000	0.3100	0.2400	0.1292
	Min	0.0400	0.0464	0.0600	0.0700	0.0790	0.0492	0.0931	0.0550	0.0200	0.0600	0.0600	0.0500

Sample Location BISC 116 – Average, Maximum and Minimum Monthly Results for 1993-2010
Depth (≥ 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	19.3667	21.8273	23.4933	25.5714	28.1571	28.8083	30.5417	30.6385	29.6917	27.0923	23.8923	22.1308
	Max	23.7000	23.9000	28.4000	28.0000	30.7000	31.1000	32.3000	32.3000	31.6000	29.0000	26.5000	26.3000
	Min	15.0000	18.4000	19.5000	20.2000	25.1000	27.2000	28.9000	28.3000	28.7000	23.3000	20.8000	17.9000
D.O mg/L	Avg	6.7750	7.0727	6.5067	6.3143	6.2929	5.7167	5.1333	5.3769	5.1000	5.2385	6.8308	6.6077
	Max	8.2000	7.9000	7.3000	7.5000	8.6000	7.2000	6.4000	6.6000	6.3000	6.8000	8.2000	7.3000
	Min	3.6000	6.3000	3.9000	5.6000	5.2000	5.1000	3.8000	4.4000	2.8000	4.2000	6.0000	5.6000
SAL. psu	Avg	33.7750	34.4636	35.7067	37.3200	37.5467	35.7846	35.6000	35.3077	34.6500	32.7769	32.6692	33.0000
	Max	35.6000	36.7000	37.1000	39.3000	39.0000	38.5000	38.9000	38.0000	36.7000	36.8000	35.8000	35.7000
	Min	32.5000	32.4000	33.0000	36.1000	36.0000	33.9000	30.9000	32.7000	30.6000	25.6000	29.1000	30.0000

Table 2.3-31 (Sheet 7 of 22)
Biscayne Bay Water Quality

Sample Location BISC 121 – Average, Maximum and Minimum Monthly Results for 1993-2010
Depth (< 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	18.0790	21.6553	22.3585	25.1184	27.7544	29.4972	30.6669	30.4882	29.4069	26.8375	23.1068	20.7368
	Max	23.2000	25.5200	28.6000	28.4000	30.4000	32.2400	32.2200	32.4000	31.9000	29.3000	26.3000	25.7000
	Min	9.1500	18.2000	17.7100	20.5000	24.5700	27.4000	29.5700	28.7000	28.0600	23.6000	18.6600	13.1000
D.O mg/L	Avg	7.5089	6.2142	6.5800	6.3947	6.4325	5.7480	5.9281	5.4935	6.0931	6.3075	7.0053	7.3595
	Max	9.1800	7.9000	7.2900	7.8100	7.4100	6.5000	6.8000	6.6000	8.3400	7.8000	8.3300	9.1300
	Min	4.2000	2.2900	4.1000	5.0500	5.1000	4.0000	4.0000	4.9000	4.6000	4.5000	6.1000	5.9300
PH UNITS	Avg	8.0710	8.0591	8.1230	7.9850	8.2538	8.1573	8.1467	8.0322	7.8922	8.0250	7.9810	8.0500
	Max	8.7000	8.3200	8.4000	8.4000	8.4000	8.5000	8.4000	8.7000	8.0000	8.4000	8.2000	8.2000
	Min	7.9400	7.8200	8.0000	7.1000	8.1600	8.0000	8.0200	7.8900	7.8000	7.9000	7.8900	7.8700
TURB NTU	Avg	0.7659	0.8084	0.7014	0.8944	0.6613	0.6820	0.5593	0.4823	0.6631	0.9300	0.8897	0.6897
	Max	1.9000	2.0000	2.4000	2.1000	1.3300	1.9000	1.4000	1.0000	1.8000	2.1000	2.5000	1.6800
	Min	0.1000	0.1000	0.3000	0.2000	0.1000	0.1000	0.2000	0.1000	0.3000	0.2000	0.2000	0.2000
NOX mg/L	Avg	0.0602	0.0091	0.0062	0.0057	0.0053	0.0083	0.0089	0.0100	0.0101	0.0361	0.0376	0.0210
	Max	0.2600	0.0344	0.0200	0.0103	0.0103	0.0149	0.0329	0.0301	0.0284	0.1000	0.1153	0.0938
	Min	0.0017	0.0008	0.0013	0.0021	0.0020	0.0039	0.0005	0.0014	0.0028	0.0059	0.0073	0.0040
NO2 mg/L	Avg	0.0014	0.0015	0.0012	0.0011	0.0010	0.0014	0.0015	0.0016	0.0017[1]	0.0033	0.0031	0.0031
	Max	0.0023	0.0031	0.0037	<0.0020	<0.0020	<0.0020	0.0031	0.0024	8.0000	0.0077	0.0080	0.0189
	Min	0.0005	<0.0003	0.0002	0.0005	<0.0003	0.0010	0.0003	0.0001	0.0009	0.0011	0.0011	0.0001
NH4 mg/L	Avg	0.0223	0.0245	0.0163	0.0180	0.0214	0.0281	0.0244	0.0285	0.0269	0.0325	0.0283	0.0273
	Max	0.1000	0.0900	0.0700	0.0800	0.1400	0.1000	0.0900	0.0900	0.0800	0.1015	0.0900	0.0800
	Min	0.0033	0.0017	0.0023	0.0024	0.0055	0.0068	<0.0008	0.0053	0.0101	0.0093	0.0079	0.0043
TKN mg/L	Avg	0.1370	0.1443	0.0967	0.2000	0.1050	0.1467	0.1633	0.1333	0.1700	0.1886	0.1703	0.1523
	Max	0.2000	0.2100	0.1300	0.2000	0.1300	0.1800	0.3300	0.2400	0.3500	0.3000	0.2610	0.2700
	Min	0.0900	<0.0800	<0.0800	0.2000	<0.0800	0.1300	<0.0800	<0.0800	<0.0800	<0.0800	<0.0800	<0.0800
OPO4 mg/L	Avg	0.0011	0.0011	0.0011	0.0013	0.0011	0.0012	0.0011	0.0014	0.0013	0.0012	0.0014	0.0014
	Max	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0030	<0.0020	0.0039	<0.0020	0.0026	0.0035
	Min	0.0002	0.0001	0.0002	0.0002	0.0003	0.0002	0.0001	0.0005	0.0002	0.0002	0.0002	0.0002
TPO4 mg/L	Avg	0.0042	0.0039	0.0038	0.0045	0.0060	0.0050	0.0065	0.0061	0.0068	0.0056	0.0054	0.0055
	Max	0.0070	0.0064	0.0061	0.0142	0.0181	0.0105	0.0155	0.0098	0.0295	0.0154	0.0125	0.0130
	Min	<0.002	<0.0020	0.0027	0.0020	<0.0020	<0.0020	0.0021	0.0026	0.0017	<0.0020	0.0030	<0.0020
SIO2 mg/L	Avg	0.0381	ND	0.0640	0.0218	0.0355	ND	0.1056	0.1360	ND	0.1132	<0.0020	ND
	Max	0.1610	ND	0.0640	0.0370	0.0600	ND	0.2300	0.1360	ND	0.3088	<0.0020	ND
	Min	<0.002	ND	0.0640	<0.0020	0.0190	ND	0.0450	0.1360	ND	0.0030	<0.0020	ND
CHLOR A mg/M3	Avg	0.3392	0.4658	0.3565	0.3418	0.3568	0.6523	0.2644	0.2950	0.3371	0.5463	0.4633	0.3847
	Max	<1.0000	1.6000	1.1000	<1.0000	<1.0000	2.9594	0.4840	0.4300	0.7100	1.2000	<1.0000	<1.0000
	Min	0.1000	0.1000	0.1000	0.1000	<0.1000	0.1000	0.1000	0.1770	0.1000	0.1000	0.2000	0.2000
NO3 mg/L	Avg	0.0074	0.0071	0.0038	0.0039	0.0040	0.0064	0.0076	0.0090	0.0085	0.0321	0.0368	0.0191
	Max	0.0160	0.0313	0.0162	0.0085	0.0090	0.0134	0.0300	0.0278	0.0243	0.0936	0.1115	0.0749
	Min	0.0002	0.0002	0.0006	0.0015	0.0009	0.0025	0.0002	0.0001	0.0013	0.0046	0.0042	0.0029
TOT N MG N/L	Avg	0.3250	0.3300	0.2077	0.2624	0.2315	0.2362	0.2233[1]	0.3425[1]	0.2175[1]	0.3650	0.2933	0.2333
	Max	0.3500	0.3300	0.3500	0.5600	0.3000	0.5300	15.3800	20.2300	17.4400	0.5600	0.3900	0.2900
	Min	0.3000	0.3300	0.1048	0.0800	0.1245	0.0886	0.1600	0.2300	0.1800	0.1700	0.1400	0.2000
SAL. psu	Avg	32.4865	33.7155	34.8624	36.6675	37.2988	34.8874	32.4075	35.1500	33.6719	29.9862	29.7225	30.9750
	Max	35.8700	37.1000	37.7000	39.1900	39.0700	38.7000	38.6000	37.8000	37.2000	37.8000	35.1000	35.6900
	Min	29.4000	25.8000	30.4000	32.7000	33.9000	31.8000	21.0000	27.7000	29.2000	24.3000	24.6000	24.3000
TOC mg/L	Avg	3.5592	3.5567	3.5779	2.9691	3.6244	3.4690	3.7392	3.7492	4.1800	3.8708	3.7858	3.6170
	Max	4.9300	4.2100	6.9300	5.3900	6.7900	6.2200	5.9800	5.8500	5.8800	6.3300	6.0400	5.3400
	Min	2.5500	2.2700	1.7000	1.9000	1.7000	1.9800	1.9000	2.3000	2.1200	1.9700	2.9300	2.6000
AlkPO4 nM/minmL	Avg	0.0825	0.1969	0.1036	0.1462	0.1665	0.1802	0.1724	0.1623	0.1285	0.1374	0.1530	0.1164
	Max	0.1300	0.9400	0.1600	0.3500	0.2700	0.2238	0.2700	0.2300	0.1960	0.2400	0.3500	0.2100
	Min	0.0400	0.0593	0.0700	0.0900	0.1300	0.1200	0.1200	0.1200	0.0200	0.0600	0.0900	0.0500

Sample Location BISC 121 – Average, Maximum and Minimum Monthly Results for 1993-2010
Depth (> 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	18.6962	21.6742	23.2975	25.6893	28.0714	29.3085	30.5723	30.6557	29.7754	27.1543	23.3050	21.5129
	Max	23.2000	24.0000	28.6000	28.0000	30.4000	32.4100	31.9000	32.3000	31.9000	29.4000	26.3000	26.7000
	Min	9.3500	18.6000	17.7600	20.4000	25.2000	27.3000	29.5400	28.7000	28.0800	23.6000	18.8700	13.0800
D.O mg/L	Avg	7.1215	6.8483	6.5644	6.4400	6.3357	5.7083	5.7731	5.7207	5.4762	5.8014	7.2250	6.9857
	Max	9.4800	8.1000	7.6300	7.2000	7.2000	6.9000	7.1000	6.9000	7.3900	7.0000	8.8000	8.8000
	Min	3.6000	2.8800	4.1000	4.5000	5.1000	4.3000	4.1000	4.4000	3.6000	4.5000	6.1000	5.6000
PH UNITS	Avg	7.9400	7.8200	8.0200	8.1500	ND	8.1600	8.1200	7.9300	7.9000	7.9300	7.8800	8.1500
	Max	7.9400	7.8200	8.0200	8.1500	ND	8.1600	8.1200	7.9300	7.9000	7.9300	7.8800	8.1500
	Min	7.9400	7.8200	8.0200	8.1500	ND	8.1600	8.1200	7.9300	7.9000	7.9300	7.8800	8.1500
SAL. psu	Avg	31.7200	33.4258	33.9106	36.3519	36.9200	34.4121	34.6915	34.6193	33.8577	30.5836	30.1421	30.5229
	Max	33.3000	36.2000	36.4000	39.0000	38.6000	38.6000	38.8000	38.0000	38.3000	37.8000	35.2000	33.8000
	Min	29.9000	31.1000	30.6000	32.6000	34.1000	31.8000	28.3000	28.1000	29.7000	25.7000	24.9000	24.7000

Table 2.3-31 (Sheet 8 of 22)
Biscayne Bay Water Quality

Sample Location BISC 122 – Average, Maximum and Minimum Monthly Results for 1993-2010
Depth (< 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	18.4874	21.7458	22.3690	25.0300	27.9969	29.2733	30.5931	30.4471	29.1281	26.7990	23.0632	20.5147
	Max	23.8000	25.5700	28.6000	28.4000	30.7000	32.5200	32.9000	35.1000	32.2000	29.7000	26.6000	26.0000
	Min	9.3300	18.6000	18.0100	20.7000	24.8200	26.7000	29.0000	27.6000	27.4700	23.3000	18.3000	12.2600
D.O mg/L	Avg	7.7005	6.2332	6.4090	6.4450	6.2675	6.0013	5.8269	5.5424	6.2131	6.6440	7.4211	7.6189
	Max	9.6100	8.4000	7.8000	7.9900	7.6000	7.1000	8.2000	7.6000	7.4800	8.6300	9.3000	9.3700
	Min	3.7000	2.3500	4.1700	3.9700	4.7000	4.8000	3.8000	4.4000	4.0000	5.1000	6.1000	6.2000
PH UNITS	Avg	8.1110	8.1773	8.2120	8.0033	8.3038	8.2236	8.1533	8.1378	7.9989	8.1180	8.0780	8.1250
	Max	8.7000	8.4000	8.4000	8.4000	8.3600	8.5000	8.5000	8.7000	8.1000	8.4000	8.3000	8.3000
	Min	7.9800	7.9900	8.0900	7.5900	8.2000	8.1000	8.0000	7.9000	7.9000	7.9900	8.0000	8.0000
TURB NTU	Avg	0.6641	0.6230	0.7006	0.6574	0.5159	0.5763	0.6021	0.5969	0.7950	0.9344	0.8303	0.7103
	Max	1.5000	0.9000	1.4000	1.1000	1.0000	1.8000	1.0000	1.2000	1.7000	2.4000	3.8000	2.3000
	Min	0.1000	0.1000	0.3000	0.2000	0.3000	0.1000	0.3000	0.1000	0.2000	0.3000	0.1000	0.2000
NOX mg/L	Avg	0.1084	0.0365	0.0172	0.0113	0.0059	0.0304	0.0111	0.0444	0.1080	0.1527	0.1356	0.0724
	Max	0.2500	0.2207	0.0562	0.0667	0.0111	0.1143	0.0190	0.2873	0.3116	0.6000	0.3617	0.3143
	Min	0.0029	0.0037	0.0015	0.0009	0.0008	0.0021	0.0012	0.0068	0.0136	0.0133	0.0040	0.0053
NO2 mg/L	Avg	0.0029	0.0021	0.0015	0.0013	0.0012	0.0022	0.0020	0.0030	0.0034[1]	0.0073	0.0048	0.0040
	Max	0.0052	0.0039	0.0055	0.0029	<0.0020	0.0049	0.0040	0.0057	8.0000	0.0196	0.0098	0.0114
	Min	0.0009	0.0007	0.0004	<0.0003	<0.0003	0.0002	0.0005	0.0013	0.0013	0.0011	0.0016	<0.0003
NH4 mg/L	Avg	0.0271	0.0231	0.0174	0.0193	0.0222	0.0385	0.0299	0.0290	0.0415	0.0441	0.0375	0.0298
	Max	0.0900	0.0700	0.0700	0.0800	0.1100	0.1200	0.0900	0.0600	0.1100	0.0951	0.1000	0.0900
	Min	0.0051	0.0050	0.0029	0.0039	<0.0050	0.0067	<0.0008	0.0106	0.0078	0.0114	0.0086	0.0051
TKN mg/L	Avg	0.1603	0.1300	0.1067	0.1333	0.1350	0.1533	0.2467	0.1267	0.3800	0.2378	0.2950	0.1745
	Max	0.2600	0.2300	0.1600	0.2400	0.1900	0.3000	0.5800	0.2200	0.4200	0.3500	0.3200	0.3000
	Min	<0.0800	0.0800	<0.0800	<0.0800	<0.0800	<0.0800	<0.0800	<0.0800	0.3600	0.1200	0.2600	<0.0800
OPO4 mg/L	Avg	0.0013	0.0013	0.0015	0.0012	0.0011	0.0014	0.0013	0.0015	0.0016	0.0022	0.0014	0.0019
	Max	0.0026	<0.0020	<0.0020	<0.0020	<0.0020	0.0036	0.0036	0.0024	0.0041	0.0072	0.0024	0.0035
	Min	0.0001	0.0003	0.0004	0.0001	0.0001	0.0002	0.0001	0.0006	0.0002	0.0003	0.0003	0.0001
TPO4 mg/L	Avg	0.0047	0.0037	0.0038	0.0038	0.0057	0.0055	0.0060	0.0058	0.0080	0.0057	0.0057	0.0053
	Max	0.0083	0.0057	0.0075	0.0117	0.0143	0.0111	0.0111	0.0106	0.0335	0.0188	0.0105	0.0115
	Min	<0.0020	0.0020	<0.0020	<0.0020	<0.0020	0.0020	0.0016	0.0020	0.0019	<0.0020	<0.0020	<0.0020
SIO2 mg/L	Avg	0.0903	ND	0.0140	0.0284	0.0635	ND	0.1564	0.1680	ND	0.1971	<0.0020	ND
	Max	0.2590	ND	0.0140	0.0700	0.0950	ND	0.2650	0.1680	ND	0.8310	<0.0020	ND
	Min	0.0010	ND	0.0140	0.0020	0.0280	ND	0.0250	0.1680	ND	0.0620	<0.0020	ND
CHLOR A mg/M3	Avg	0.3908	0.4217	0.3185	0.3156	0.3337	0.4509	0.3305	0.2950	0.3709	0.6806	0.4700	0.4027
	Max	<1.0000	1.2000	1.1000	<1.0000	1.2724	1.4416	0.5840	0.4800	0.9000	3.5000	<1.0000	<1.0000
	Min	0.1000	<0.1000	0.1000	0.1000	0.1000	0.2000	0.1000	0.1770	0.1000	<0.1000	0.2000	0.2000
NO3 mg/L	Avg	0.0762	0.0438	0.0097	0.0095	0.0052	0.0296	0.0104	0.0476	0.0695	0.1091	0.1056	0.0719
	Max	0.1786	0.2172	0.0508	0.0638	0.0095	0.1094	0.0167	0.2817	0.2981	0.3223	0.3544	0.3030
	Min	0.0020	0.0026	0.0001	0.0004	0.0001	0.0012	0.0016	0.0041	0.0116	0.0090	0.0153	0.0045
TOT N MG N/L	Avg	0.3900	0.3726	0.2388	0.3154	0.2462	0.3423	0.2300[1]	0.4225[1]	0.2800[1]	0.4250	0.4100	0.4052
	Max	0.4200	0.4400	0.4400	0.6100	0.3100	0.6600	18.0500	17.0200	16.7800	0.5900	0.5000	0.6400
	Min	0.3600	0.3190	0.1242	0.0900	0.1185	0.1700	0.1400	0.2300	0.2600	0.2600	0.2500	0.1100
SAL. psu	Avg	29.8460	31.4260	33.7867	36.2768	37.7782	35.0867	35.2013	34.1247	29.5444	25.0929	24.5745	27.2130
	Max	34.9800	37.4000	38.6000	39.8000	41.0900	40.5000	40.1000	38.0000	37.9000	34.1000	32.0600	32.8000
	Min	23.6000	26.1000	26.4000	31.3000	33.8000	28.7000	27.2000	26.8000	18.5500	15.5000	18.9100	20.3000
TOC mg/L	Avg	3.6438	3.9033	4.1736	3.4836	4.0344	4.3200	5.3731	4.6375	5.0492	4.2015	4.2033	4.1140
	Max	4.7400	4.9500	7.4500	6.0600	7.2700	6.0800	9.4200	7.0600	9.1400	5.7100	6.4300	6.1100
	Min	2.9000	2.6800	2.2000	2.6200	2.4200	2.8900	2.2300	2.6200	2.8000	2.5400	2.8600	3.1000
AlkPO4 nM/minmL	Avg	0.1794	0.3796	0.1995	0.2487	0.3164	0.4068	0.4043	0.3613	0.3135	0.3410	0.2656	0.2729
	Max	0.2900	1.5400	0.3500	0.3800	0.4600	0.8800	0.9000	0.5800	0.6500	0.7800	0.4909	0.5600
	Min	0.1000	0.1200	0.1100	0.1174	0.1500	0.2000	0.1800	0.2106	0.1400	0.1500	0.1300	0.1400

Sample Location BISC 122 – Average, Maximum and Minimum Monthly Results for 1993-2010
Depth (≥ 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	18.6577	22.1392	23.5206	25.5407	28.2643	29.0239	30.5239	30.4957	29.5185	27.0614	23.2779	21.1914
	Max	23.8000	23.9000	28.6000	28.4000	30.7000	32.5100	33.1000	32.7000	32.3000	29.8000	26.6000	26.0000
	Min	9.3500	18.6000	18.0300	20.7000	25.9000	26.7000	29.0000	27.6000	27.5400	23.3000	18.6900	12.1800
D.O mg/L	Avg	7.3992	6.9725	6.8938	6.6927	6.4000	6.1833	5.9915	5.4950	5.8738	6.3321	7.4136	7.2186
	Max	9.2900	8.3000	8.9000	7.5000	7.8000	7.4000	8.1000	7.6000	7.5600	8.1000	9.4900	9.2600
	Min	3.8000	2.5700	4.2000	5.9000	5.3000	5.0000	3.7000	4.4000	3.9000	4.9000	6.5000	6.2000
PH UNITS	Avg	7.9900	8.0100	8.2300	8.1300	ND	8.2800	8.0000	8.0700	8.0000	8.1200	8.0500	8.1800
	Max	7.9900	8.0100	8.2300	8.1300	ND	8.2800	8.0000	8.0700	8.0000	8.1200	8.0500	8.1800
	Min	7.9900	8.0100	8.2300	8.1300	ND	8.2800	8.0000	8.0700	8.0000	8.1200	8.0500	8.1800
SAL. psu	Avg	28.3546	30.1808	32.8075	35.9588	37.1333	34.7321	34.3223	33.7486	31.0392	26.1550	24.6071	26.3150
	Max	31.2000	36.0000	36.5000	39.7000	40.4000	40.5000	40.1000	37.8000	37.9000	33.6000	28.2000	31.2000
	Min	24.2000	26.6000	27.9000	31.2000	34.8000	30.6000	27.2000	26.8000	19.4100	15.5000	21.0000	22.0000

Table 2.3-31 (Sheet 9 of 22)
Biscayne Bay Water Quality

Sample Location BISC 123 – Average, Maximum and Minimum Monthly Results for 1993-2010

Depth (< 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	18.7756	21.4642	22.1610	25.0483	27.7750	29.1894	30.5075	30.0659	29.0056	27.0730	22.9963	20.6411
	Max	23.6000	25.5900	28.5000	28.1000	30.3000	32.6000	32.4000	32.0000	31.9000	32.7000	26.1000	26.6000
	Min	9.5200	18.2000	17.8800	20.8000	24.7600	26.9000	28.9000	27.7000	27.5000	23.3000	18.5600	12.2700
D.O mg/L	Avg	7.3917	6.1874	6.2405	6.4050	6.1519	5.8133	5.4388	5.5953	6.0875	6.3345	7.0768	7.5121
	Max	9.0100	8.1000	7.2000	7.5600	7.1000	7.1000	6.3000	7.8000	6.8900	7.8700	8.5300	9.1300
	Min	3.9000	2.6900	3.8800	4.3400	4.7000	4.5000	3.4400	4.4000	5.4000	5.2000	5.7000	6.2000
PH UNITS	Avg	8.0113	8.1536	8.1410	7.9467	8.2700	8.1545	8.1511	8.1189	7.7956	8.0840	8.0380	8.0850
	Max	8.2000	8.3800	8.4000	8.4000	8.3500	8.4000	8.5000	8.7000	8.1000	8.4000	8.2000	8.2200
	Min	7.9500	8.0200	8.0000	7.5000	8.1000	8.0000	7.9900	7.9000	6.4100	7.9400	7.9700	7.9000
TURB NTU	Avg	0.9866	0.7947	0.7578	0.9163	0.6588	0.6444	0.7779	0.6462	0.7829	0.9133	1.0962	0.8974
	Max	2.7000	2.1000	1.9000	3.0000	2.1000	1.9000	1.6000	1.9000	1.5000	2.5000	4.0000	3.2000
	Min	0.1000	0.2000	0.1300	0.2000	0.3000	0.2000	0.4000	0.1000	0.2000	0.2000	0.2000	0.1500
NOX mg/L	Avg	0.0522	0.0385	0.0139	0.0085	0.0104	0.0461	0.0244	0.0217	0.0630	0.1261	0.0817	0.0598
	Max	0.1196	0.2404	0.0451	0.0135	0.0183	0.1640	0.1059	0.0489	0.1538	0.6516	0.1700	0.2241
	Min	0.0062	0.0042	0.0043	0.0029	0.0017	<0.0100	0.0012	<0.0100	0.0200	0.0150	0.0266	0.0112
NO2 mg/L	Avg	0.0022	0.0020	0.0013	0.0011	0.0013	0.0028	0.0025	0.0027	0.0037[1]	0.0051	0.0036	0.0027
	Max	0.0033	0.0036	0.0035	0.0026	0.0020	0.0050	0.0057	0.0040	8.0000	0.0190	0.0100	0.0078
	Min	0.0011	0.0009	0.0004	0.0005	<0.0003	0.0013	0.0011	0.0017	0.0015	0.0016	0.0014	0.0001
NH4 mg/L	Avg	0.0137	0.0271	0.0181	0.0119	0.0213	0.0387	0.0227	0.0355	0.0406	0.0370	0.0324	0.0288
	Max	0.0280	0.0900	0.0800	0.0500	0.1100	0.1200	0.0453	0.1200	0.0913	0.0900	0.1100	0.0900
	Min	0.0075	0.0046	0.0037	0.0043	0.0063	0.0095	0.0025	0.0096	0.0130	0.0080	0.0068	0.0047
TKN mg/L	Avg	0.1583	0.1410	0.1000	0.1600	0.1150	0.1367	0.2300	0.0833	0.1833	0.1662	0.2078	0.1575
	Max	0.2300	0.1840	0.1400	0.2400	0.1500	0.2500	0.5300	0.0900	0.3900	0.2700	0.2700	0.2700
	Min	<0.0800	0.1200	<0.0800	<0.0800	<0.0800	<0.0800	<0.0800	<0.0800	<0.0800	<0.0800	0.1600	<0.0800
OPO4 mg/L	Avg	0.0014	0.0011	0.0012	0.0014	0.0010	0.0015	0.0011	0.0020	0.0016	0.0013	0.0014	0.0015
	Max	0.0031	0.0020	<0.0020	0.0021	<0.0020	<0.0020	0.0029	0.0061	0.0032	<0.0020	0.0032	0.0022
	Min	0.0002	0.0001	0.0001	0.0002	0.0002	0.0003	0.0001	0.0002	0.0004	0.0002	0.0002	0.0002
TPO4 mg/L	Avg	0.0045	0.0036	0.0033	0.0042	0.0048	0.0051	0.0055	0.0055	0.0062	0.0051	0.0054	0.0052
	Max	0.0082	0.0060	0.0052	0.0146	0.0083	0.0113	0.0147	0.0090	0.0186	0.0103	0.0118	0.0122
	Min	<0.0020	0.0020	<0.0020	0.0019	<0.0020	<0.0020	0.0017	0.0033	0.0021	<0.0020	0.0020	<0.0020
SIO2 mg/L	Avg	0.0825	ND	0.0170	0.0250	0.0353	ND	0.0958	0.0420	ND	0.0673	<0.0020	ND
	Max	0.3070	ND	0.0170	0.0430	0.0590	ND	0.1810	0.0420	ND	0.1150	<0.0020	ND
	Min	0.0090	ND	0.0170	0.0160	0.0220	ND	0.0360	0.0420	ND	0.0180	<0.0020	ND
CHLOR A mg/M3	Avg	0.3083	0.4317	0.3816	0.2931	0.3154	0.4723	0.3172	0.3017	0.3151	0.4606	0.3767	0.3460
	Max	<1.0000	1.2000	1.2000	<1.0000	1.0508	1.7680	0.6400	0.4600	0.5100	1.3000	<1.0000	<1.0000
	Min	0.1000	0.1000	<0.1000	0.1000	<0.1000	0.2000	0.1000	0.1890	0.1000	<0.1000	0.1000	0.1000
NO3 mg/L	Avg	0.0499	0.0448	0.0118	0.0083	0.0095	0.0472	0.0271	0.0212	0.0634	0.1053	0.0630	0.0593
	Max	0.1167	0.2368	0.0417	0.0174	0.0163	0.1590	0.1001	0.0465	0.1474	0.6327	0.1092	0.2163
	Min	0.0047	0.0032	0.0039	0.0022	0.0007	0.0109	0.0045	0.0088	0.0176	0.0100	0.0250	0.0098
TOT N MG N/L	Avg	0.3350	0.3564	0.2133	0.2892	0.2120	0.3019	0.2267[1]	0.3150[1]	0.3325[1]	0.2900	0.2567	ND
	Max	0.3400	0.4000	0.4000	0.5900	0.2800	0.6700	17.6200	20.5100	16.9200	0.3700	0.3400	ND
	Min	0.3300	0.3212	0.1083	0.1200	0.1261	0.1157	0.1700	0.2200	0.2800	0.2100	0.1600	ND
SAL. psu	Avg	32.2711	32.9500	34.6410	37.1747	38.0559	35.4047	35.1675	35.1794	32.4381	28.7819	28.6705	30.4165
	Max	36.7200	38.2000	39.2000	40.3000	40.3000	40.0800	39.7000	38.2000	37.0000	35.3000	34.6000	34.3400
	Min	28.2000	28.4000	29.6000	32.8000	35.5000	28.9000	26.2000	29.2000	24.2000	22.5000	24.4000	21.2000
TOC mg/L	Avg	3.2073	3.1667	3.6792	3.0527	3.3133	3.2680	4.6977	3.6533	3.6518	4.3353	3.3800	3.5050
	Max	3.9600	4.0000	6.5200	5.2900	5.7100	5.0000	10.5300	6.2600	5.2700	10.4000	5.3800	5.2800
	Min	2.4100	2.5700	1.9000	1.8900	1.8000	2.5400	1.9400	2.1000	2.1200	1.6400	2.4900	2.7600
AlkPO4 nM/minmL	Avg	0.0959	0.1970	0.1268	0.1425	0.1697	0.2221	0.2482	0.1827	0.1638	0.1633	0.1362	0.1057
	Max	0.1400	0.7500	0.2600	0.2400	0.2500	0.2800	0.4400	0.2300	0.2900	0.2300	0.2300	0.1400
	Min	0.0400	0.0825	0.0700	0.0686	0.1103	0.1475	0.1463	0.0671	0.0800	0.0700	0.0800	0.0600

Sample Location BISC 123 – Average, Maximum and Minimum Monthly Results for 1993-2010

Depth (≥ 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	18.5246	21.4525	22.9850	25.5047	27.9571	28.8562	30.3415	30.1407	29.3923	27.0400	23.2471	21.4571
	Max	23.0000	23.8000	28.5000	28.1000	30.3000	32.5300	32.5000	31.8000	32.0000	29.0000	26.1000	26.5000
	Min	9.5200	18.2000	18.2600	20.7000	25.7000	27.0000	29.0000	27.7000	27.7000	23.4000	18.8600	12.8000
D.O mg/L	Avg	7.1808	6.7633	6.4775	6.4980	6.0786	5.6417	5.5331	5.6243	5.7892	5.8736	7.0350	7.0314
	Max	8.7500	8.0000	7.3000	8.0000	8.5000	7.1000	6.2000	7.9000	7.1600	6.9000	8.8900	8.8400
	Min	3.8000	3.0600	3.9400	5.8000	4.8000	4.4000	4.4000	4.7000	4.5000	5.2000	6.2000	6.0000
PH UNITS	Avg	7.9600	8.0400	8.1400	8.1100	ND	8.1200	7.9700	8.1100	7.9400	7.9900	7.9900	8.1400
	Max	7.9600	8.0400	8.1400	8.1100	ND	8.1200	7.9700	8.1100	7.9400	7.9900	7.9900	8.1400
	Min	7.9600	8.0400	8.1400	8.1100	ND	8.1200	7.9700	8.1100	7.9400	7.9900	7.9900	8.1400
SAL. psu	Avg	31.0069	32.1775	33.7175	36.6331	37.6667	35.1179	34.2146	34.5236	32.4569	29.9543	29.0829	30.3393
	Max	33.9900	36.0000	37.3000	40.3000	40.3000	39.4000	39.7000	38.2000	37.0000	35.2000	34.6000	33.6000
	Min	28.2000	28.8000	29.6000	32.8000	35.5000	30.8000	26.2000	29.2000	24.2000	25.1000	24.4000	25.8000

Table 2.3-31 (Sheet 10 of 22)
Biscayne Bay Water Quality

Sample Location BISC 124 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (< 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	19.4085	20.9808	23.0971	25.2723	27.2785	28.5875	30.6783	30.4654	29.2215	27.0357	23.8771	22.2679
	Max	23.1000	23.9000	28.0000	27.4000	30.3000	31.1000	31.7700	32.0000	31.2000	29.0000	26.0000	25.7000
	Min	14.4000	18.2000	19.1000	20.7000	24.9100	27.2000	28.7000	28.4000	28.2400	23.8000	20.6000	18.2000
D.O mg/L	Avg	7.0600	6.9550	6.6807	6.4615	6.3754	6.0700	5.4833	5.7269	5.6508	6.0279	6.6136	7.1057
	Max	8.5100	8.0000	8.0000	7.2000	7.7000	8.1000	6.2000	6.5000	6.4800	7.3100	7.2000	9.0300
	Min	4.3000	6.1000	4.2000	5.8000	5.2000	5.2200	3.9000	5.0000	5.0000	5.2000	5.9000	6.3000
PH UNITS	Avg	8.2100	8.2500	8.1800	7.7600	8.2960	8.2600	8.2280	8.2480	8.0200	8.1000	8.0360	8.0000
	Max	8.6000	8.3500	8.4000	8.5000	8.4000	8.6000	8.4000	8.9000	8.1000	8.4000	8.2000	8.1000
	Min	8.0200	8.1000	8.0600	7.2000	8.2000	8.1000	8.1000	8.0000	7.9000	7.9500	7.9000	7.9000
TURB NTU	Avg	0.9896	0.8973	0.9150	0.8329	0.5817	0.8332	0.8973	0.6592	0.8742	1.0192	0.9135	0.8938
	Max	2.4750	2.1000	3.0000	2.8000	1.0000	1.6000	1.9000	1.4000	1.5000	2.0000	1.7000	2.0000
	Min	0.1000	0.2000	0.3000	0.3000	0.2000	0.3000	0.6000	0.1000	0.3000	0.6000	0.2000	0.3000
NOX mg/L	Avg	0.0064	0.0071	0.0039	0.0039	0.0026	0.0199	0.0084	0.0103	0.0078	0.0139	0.0149	0.0221
	Max	0.0261	0.0139	0.0102	0.0176	0.0061	0.1259	0.0258	0.0241	0.0183	0.0387	0.0508	0.0941
	Min	0.0021	0.0006	0.0005	0.0008	0.0007	0.0030	0.0008	0.0025	0.0013	0.0030	0.0015	0.0029
NO2 mg/L	Avg	0.0010	0.0011	0.0012	0.0007	0.0007	0.0012	0.0011	0.0015	0.0014[1]	0.0015	0.0017	0.0014
	Max	0.0021	0.0022	0.0032	0.0017	0.0015	0.0034	0.0025	0.0024	8.0000	0.0040	0.0060	0.0038
	Min	0.0004	0.0004	0.0001	0.0002	<0.0003	0.0006	0.0004	0.0002	0.0004	0.0006	0.0001	<0.0003
NH4 mg/L	Avg	0.0114	0.0122	0.0088	0.0092	0.0121	0.0203	0.0208	0.0264	0.0367	0.0240	0.0250	0.0223
	Max	0.0222	0.0250	0.0212	0.0174	0.0178	0.0359	0.0324	0.0367	0.1203	0.0390	0.0541	0.0593
	Min	0.0027	0.0029	0.0031	0.0046	0.0054	0.0105	0.0011	0.0117	0.0203	0.0075	0.0035	0.0035
TKN mg/L	Avg	0.1710	0.1710	ND	ND	ND	ND	ND	ND	0.1420	0.1760	0.2890	0.2360
	Max	0.1710	0.1710	ND	ND	ND	ND	ND	ND	0.1420	0.1760	0.2890	0.2360
	Min	0.1710	0.1710	ND	ND	ND	ND	ND	ND	0.1420	0.1760	0.2890	0.2360
OPO4 mg/L	Avg	0.0007	0.0010	0.0009	0.0010	0.0005	0.0012	0.0011	0.0017	0.0014	0.0009	0.0009	0.0011
	Max	0.0010	0.0026	<0.0016	0.0020	0.0019	0.0028	0.0034	0.0058	0.0034	0.0018	0.0019	0.0026
	Min	0.0001	0.0002	0.0002	0.0002	0.0001	0.0002	0.0001	0.0003	0.0003	0.0003	0.0002	0.0002
TPO4 mg/L	Avg	0.0045	0.0042	0.0032	0.0043	0.0046	0.0050	0.0056	0.0056	0.0053	0.0049	0.0053	0.0061
	Max	0.0073	0.0060	0.0047	0.0102	0.0098	0.0104	0.0122	0.0121	0.0146	0.0080	0.0114	0.0167
	Min	0.0022	0.0021	0.0009	0.0018	0.0021	0.0025	0.0019	0.0036	0.0020	0.0028	0.0030	0.0026
SIO2 mg/L	Avg	0.0100	ND	ND	0.0094	0.0215	ND	0.0710	0.0520	ND	0.0268	<0.0020	ND
	Max	0.0190	ND	ND	0.0130	0.0460	ND	0.1030	0.0520	ND	0.0610	<0.0020	ND
	Min	0.0019	ND	ND	0.0031	0.0110	ND	0.0330	0.0520	ND	0.0050	<0.0020	ND
CHLOR A mg/M3	Avg	0.2433	0.3478	0.3032	0.2318	0.2523	0.2368	0.2568	0.2612	0.3207	0.3192	0.3317	0.2915
	Max	0.6900	1.0000	1.0000	0.9181	1.1271	0.6052	0.4000	0.4000	1.1000	0.8300	0.8000	0.7900
	Min	0.1000	<0.1000	0.1000	0.1000	0.1000	0.1000	0.2000	0.2000	0.1000	<0.1000	0.2000	0.2000
NO3 mg/L	Avg	0.0057	0.0060	0.0023	0.0028	0.0020	0.0153	0.0076	0.0082	0.0061	0.0097	0.0118	0.0170
	Max	0.0253	0.0129	0.0092	0.0177	0.0055	0.1225	0.0234	0.0217	0.0152	0.0338	0.0482	0.0903
	Min	0.0013	0.0006	0.0004	0.0005	0.0004	0.0012	0.0026	0.0019	0.0002	0.0005	0.0002	0.0019
TOT N MG N/L	Avg	0.2800	0.3300	0.2036	0.3062	ND	ND	0.2333[1]	0.3025[1]	0.2500[1]	0.2000	0.1767	0.1633
	Max	0.2800	0.3300	0.3500	0.5400	ND	ND	17.1600	14.5900	17.4400	0.2800	0.2500	0.2600
	Min	0.2800	0.3300	0.0791	0.1100	ND	ND	0.1500	0.2000	0.1500	0.1200	0.1000	0.0700
SAL. psu	Avg	34.0436	35.0369	36.3240	37.6100	37.9157	36.5800	36.1200	35.8654	35.2569	33.6687	33.6040	33.8181
	Max	36.4500	37.2000	37.9000	39.3000	39.2000	40.7000	40.6000	38.3000	37.6000	36.8000	37.1400	36.6200
	Min	24.5000	32.1000	32.4000	35.2000	36.1000	31.6000	31.4000	31.0000	29.7000	30.6000	31.0000	28.0000
TOC mg/L	Avg	2.6620	2.6856	2.4830	2.8340	2.8214	3.4911	4.1856	3.3773	2.9009	2.7882	2.6173	2.7989
	Max	3.4400	3.2700	4.3300	4.7500	4.0600	5.3300	11.9800	4.4900	4.2000	3.9100	4.3400	3.7700
	Min	2.0900	1.7900	1.8000	1.8600	1.9700	2.4800	2.3900	2.1200	1.4700	1.1800	1.4600	2.1100
AlkPO4 nM/minmL	Avg	0.0681	0.1816	0.1057	0.1312	0.1756	0.2240	0.2525	0.2261	0.1735	0.1611	0.1135	0.0862
	Max	0.0900	0.7800	0.1400	0.2000	0.2300	0.3200	0.4300	0.3700	0.3000	0.2300	0.2000	0.1598
	Min	0.0400	0.0700	0.0700	0.0700	0.1200	0.1700	0.1482	0.1412	0.0800	0.0600	0.0600	0.0400
Sample Location BISC 124 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (≥ 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	19.2583	20.8818	23.1600	25.5923	27.8357	28.9500	30.5500	30.3692	29.4333	27.1231	23.5462	22.4077
	Max	23.1000	23.9000	28.0000	27.3000	30.3000	31.2000	31.5000	32.0000	31.3000	29.0000	26.0000	26.0000
	Min	14.2000	17.9000	19.2000	20.7000	25.1000	27.5000	28.8000	28.4000	28.4000	23.8000	20.6000	18.7000
D.O mg/L	Avg	6.8500	7.1000	6.7267	6.4077	6.4500	6.2083	5.6417	5.6923	5.6167	5.8077	6.5462	6.8231
	Max	8.2000	8.1000	8.5000	6.9000	8.2000	8.6000	6.3000	6.5000	6.2000	6.8000	7.5000	7.4000
	Min	3.8000	6.1000	4.3000	5.7000	5.2000	5.3000	4.0000	5.2000	4.9000	5.2000	6.2000	6.3000
SAL. psu	Avg	34.1667	34.7364	35.9533	37.4143	37.8000	36.6538	35.7083	35.2231	34.6333	33.2539	33.1000	33.3385
	Max	36.1000	37.2000	37.8000	39.3000	39.2000	40.7000	40.7000	38.8000	37.6000	36.9000	36.2000	35.7000
	Min	31.6000	32.1000	32.4000	35.2000	36.0000	34.5000	31.4000	31.0000	29.7000	30.6000	31.0000	28.0000

Table 2.3-31 (Sheet 11 of 22)
Biscayne Bay Water Quality

Sample Location BISC 135 – Average, Maximum and Minimum Monthly Results for 1993-2010
Depth (< 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	19.6785	21.9177	23.2893	24.9808	27.6269	28.8338	30.8236	30.7133	29.4909	26.6715	23.7877	22.3177
	Max	22.9000	25.7900	28.4000	27.9000	29.6000	31.1000	32.0000	31.8000	31.6000	28.9000	26.3000	24.6000
	Min	16.0000	19.1000	19.9000	21.4000	25.1000	27.3000	29.5000	28.7000	28.1000	23.8000	20.8000	18.5000
D.O mg/L	Avg	7.1792	7.2062	6.7157	6.5862	6.4185	6.0338	5.7882	5.5650	5.9909	6.5815	6.7515	7.4254
	Max	8.0900	9.0000	8.1000	7.7000	8.0000	6.7000	6.3000	6.6000	8.3000	7.9100	7.4300	8.8400
	Min	4.1000	6.3000	4.2000	5.9000	5.3000	5.3000	4.7000	4.8000	4.8000	5.2000	6.1000	6.8000
PH UNITS	Avg	8.1443	8.2025	8.1743	7.8971	8.2775	8.1488	8.2267	8.1567	7.9433	8.0686	8.0014	7.9971
	Max	8.8000	8.3700	8.5000	8.4000	8.4000	8.3000	8.5000	8.7000	8.1000	8.4000	8.2000	8.1900
	Min	7.9000	8.1000	8.0300	7.1000	8.2000	8.0000	8.0800	8.0000	7.8000	7.9000	7.9000	7.8800
TURB NTU	Avg	0.3686	0.4386	0.4455	0.6818	0.3942	0.5175	0.4230	0.3709	0.6133	1.0008	0.8067	0.6625
	Max	0.7000	0.7350	0.8000	1.3750	0.6100	1.1250	1.1000	1.1000	1.8000	2.3000	3.2000	2.1000
	Min	0.1000	0.2000	0.2000	0.1000	0.1000	0.2000	0.1000	0.1000	0.2000	0.2000	0.1000	0.1000
NOX mg/L	Avg	0.0056	0.0093	0.0053	0.0046	0.0042	0.0117	0.0238	0.0084	0.0112	0.0516	0.0475	0.0199
	Max	0.0139	0.0396	0.0145	0.0109	0.0061	0.0254	0.1400	0.0208	0.0179	0.1230	0.1253	0.0476
	Min	0.0019	0.0009	0.0006	0.0008	0.0013	0.0040	0.0009	0.0022	0.0020	0.0032	0.0058	0.0079
NO2 mg/L	Avg	0.0013	0.0016	0.0010	0.0009	0.0011	0.0020	0.0014	0.0018	0.0022[1]	0.0046	0.0045	0.0026
	Max	<0.0020	0.0039	<0.0020	0.0020	<0.0020	0.0036	0.0031	0.0029	8.0000	0.0079	0.0096	0.0054
	Min	0.0007	0.0006	0.0003	0.0003	<0.0003	0.0003	0.0008	0.0004	0.0010	0.0007	0.0014	0.0002
NH4 mg/L	Avg	0.0100	0.0098	0.0071	0.0069	0.0093	0.0209	0.0110	0.0167	0.0241	0.0314	0.0242	0.0147
	Max	0.0185	0.0280	0.0106	0.0092	0.0213	0.0475	0.0138	0.0313	0.0724	0.0706	0.0503	0.0273
	Min	0.0049	0.0029	0.0045	0.0039	0.0044	0.0068	<0.0008	0.0079	0.0100	0.0067	0.0085	0.0053
TKN mg/L	Avg	0.2800	0.2100	0.2200	0.2700	0.2000	0.4300	0.6200	0.4600	0.4900	0.3700	0.3100	0.3000
	Max	0.2800	0.2100	0.2200	0.2700	0.2000	0.4300	0.6200	0.4600	0.4900	0.3700	0.3100	0.3000
	Min	0.2800	0.2100	0.2200	0.2700	0.2000	0.4300	0.6200	0.4600	0.4900	0.3700	0.3100	0.3000
OPO4 mg/L	Avg	0.0007	0.0012	0.0014	0.0026	0.0011	0.0012	0.0023	0.0017	0.0024	0.0018	0.0009	0.0015
	Max	<0.002	<0.0020	<0.0020	0.0090	<0.0020	0.0026	0.0047	0.0052	0.0041	0.0047	<0.0020	0.0042
	Min	0.0002	0.0003	0.0002	0.0002	0.0002	0.0003	0.0009	0.0001	0.0010	0.0002	0.0002	0.0001
TPO4 mg/L	Avg	0.0049	0.0041	0.0037	0.0077	0.0083	0.0078	0.0085	0.0062	0.0053	0.0057	0.0057	0.0055
	Max	0.0077	0.0056	0.0059	0.0126	0.0249	0.0147	0.0241	0.0126	0.0133	0.0162	0.0124	0.0145
	Min	<0.0020	0.0028	0.0018	0.0029	0.0038	0.0038	0.0030	0.0028	0.0028	0.0020	0.0030	0.0020
SIO2 mg/L	Avg	0.0230	ND	0.0080	0.0311	0.0475	ND	0.1209	0.0700	ND	0.0956	0.0240	ND
	Max	0.0400	ND	0.0080	0.0740	0.0670	ND	0.2700	0.0700	ND	0.2590	0.0240	ND
	Min	0.0040	ND	0.0080	0.0110	0.0240	ND	0.0400	0.0700	ND	0.0010	0.0240	ND
CHLOR A mg/M3	Avg	0.3875	0.4286	0.4000	0.3375	0.4100	0.4556	0.3315	0.4505	0.3422	0.6200	0.6200	0.4500
	Max	<1.0000	1.1000	1.1000	<1.0000	1.2000	1.1000	0.6000	0.9140	0.8000	1.5000	1.2000	<1.0000
	Min	0.1000	<0.1000	<0.1000	0.2000	0.1000	0.1000	0.1770	0.2000	0.1000	0.2000	0.3000	0.2000
NO3 mg/L	Avg	0.0041	0.0072	0.0042	0.0032	0.0032	0.0083	0.0230	0.0070	0.0110	0.0456	0.0407	0.0171
	Max	0.0130	0.0357	0.0126	0.0106	0.0053	0.0226	0.1400	0.0203	0.0161	0.1160	0.1188	0.0422
	Min	0.0009	0.0001	0.0001	0.0003	0.0005	0.0007	0.0008	0.0013	0.0081	0.0024	0.0044	0.0057
TOT N MG N/L	Avg	0.3150	0.3338	0.2107	0.2753	0.2425	0.2422	0.2667[1]	0.2900[1]	0.3700[1]	0.3100	0.3333	ND
	Max	0.3200	0.3589	0.3200	0.5600	0.3200	0.5000	12.9600	22.4800	14.5500	0.4200	0.5000	ND
	Min	0.3100	0.3100	0.1121	0.1300	0.1674	0.1284	0.2400	0.2100	0.2200	0.2000	0.2200	ND
SAL. psu	Avg	32.2086	32.9664	34.5373	36.1879	37.2979	35.1236	34.4964	34.1442	33.1964	29.2407	28.7693	30.1521
	Max	34.7400	36.3000	37.8000	38.7100	39.9200	40.2000	40.8000	39.9000	39.7000	37.7000	35.2000	34.6900
	Min	28.9000	24.1000	27.8000	31.9000	31.2000	30.1000	26.0000	29.7000	28.5000	22.9000	21.9000	23.5000
TOC mg/L	Avg	3.5789	3.6471	3.3178	3.5738	3.6033	4.5838	5.2300	5.0256[1]	5.4344	4.9350	4.2060	3.9000
	Max	5.1900	4.7300	3.8500	4.4300	4.4100	6.6700	7.3800	99.0000	6.5900	8.8700	6.0500	4.5800
	Min	2.7500	2.9700	2.9900	2.9000	2.5000	3.4600	3.1500	4.1900	4.1900	3.1000	3.1400	3.4000
AlkPO4 Nm/minmL	Avg	0.0825	0.2129	0.1100	0.1338	0.1688	0.1650	0.1967	0.1788	0.1463	0.1456	0.1133	0.0922
	Max	0.1200	0.8000	0.2200	0.2100	0.2800	0.2400	0.3100	0.2600	0.2100	0.2500	0.1700	0.1400
	Min	0.0500	0.0800	0.0800	0.0800	0.1100	0.1000	0.1100	0.1300	0.0300	0.0800	0.0800	0.0500

Sample Location BISC 135 – Average, Maximum and Minimum Monthly Results for 1993-2010
Depth (≥ 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	18.8625	21.4429	23.6111	24.9500	27.6500	29.0125	30.5625	30.8000	30.2000	26.7111	23.3000	21.9444
	Max	22.8000	24.3000	28.4000	28.4000	29.3000	31.1000	31.8000	33.1000	31.9000	29.2000	26.5000	25.0000
	Min	15.9000	18.4000	19.8000	21.3000	25.1000	27.8000	29.5000	28.7000	28.7000	23.8000	20.8000	19.0000
D.O mg/L	Avg	6.9625	7.6143	6.6889	6.4250	6.7250	5.6875	5.9250	5.5556	5.1375	5.8889	7.0000	7.0333
	Max	8.2000	9.5000	8.3000	7.6000	8.4000	7.1000	7.2000	6.6000	6.3000	7.0000	8.9000	7.5000
	Min	3.6000	6.5000	4.2000	5.9000	5.4000	4.8000	4.7000	4.6000	3.3000	4.3000	6.3000	6.8000
SAL. psu	Avg	31.3875	33.1143	33.8111	35.4333	37.1333	35.4333	34.5500	34.4889	34.4500	30.8667	29.2222	31.6333
	Max	33.5000	36.0000	35.4000	38.2000	38.5000	40.2000	40.9000	39.9000	39.7000	37.7000	35.1000	34.4000
	Min	28.9000	31.3000	28.4000	31.9000	33.3000	32.3000	29.4000	30.9000	29.9000	25.2000	23.3000	28.8000

Table 2.3-31 (Sheet 12 of 22)
Biscayne Bay Water Quality

Sample Location BISC 111 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (< 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	19.9681	22.0775	23.0053	25.3863	27.5631	28.9260	30.6508	30.4777	29.3143	27.3100	23.7894	22.0513
	Max	24.4000	26.6000	28.1000	27.8000	30.2000	31.2000	31.5300	32.0000	31.5000	29.9600	26.1000	25.9000
	Min	13.5000	19.1000	19.5000	20.7000	24.9200	27.3000	28.8000	28.2000	28.1000	22.9000	20.9000	17.8000
D.O mg/L	Avg	7.1656	6.7406	6.8147	6.5794	6.3781	6.1647	5.6608	5.4246	5.5114	6.2584	6.4700	7.0419
	Max	8.7000	7.7000	8.3000	7.6000	7.8000	9.3000	7.6700	6.2000	8.4600	7.8300	7.1300	9.4900
	Min	4.8000	5.3800	4.1000	5.4000	5.2000	5.1000	4.2000	4.9000	4.0000	4.7000	5.2000	6.3000
PH UNITS	Avg	8.1414	8.2300	8.2557	7.9943	8.3225	8.2388	8.2767	8.1920	7.9433	8.0530	8.0229	8.0229
	Max	8.6000	8.3700	8.5000	8.5000	8.5000	8.5000	8.5000	8.8000	8.1000	8.3000	8.2000	8.1500
	Min	8.0000	8.1000	8.1000	7.3000	8.2000	8.1000	8.1300	8.0000	7.8800	7.9500	7.9000	7.9000
TURB NTU	Avg	1.0213	0.9336	0.8884	0.9117	0.7437	0.7461	0.7767	0.6792	1.1123	1.0459	2.0930	1.6447
	Max	2.2000	2.0000	3.9000	2.2000	1.8000	1.4000	1.5000	1.4000	3.5000	4.9000	19.0000	11.5000
	Min	0.1000	0.1000	0.3000	0.2750	0.4000	0.4000	0.3200	0.2000	0.5000	0.2000	0.3000	0.1100
NOX mg/L	Avg	0.0023	0.0047	0.0030	0.0039	0.0032	0.0201	0.0092	0.0048	0.0138	0.0227	0.0078	0.0140
	Max	0.0051	0.0141	0.0060	0.0105	<0.0050	0.1340	0.0340	0.0101	0.0390	0.2222	0.0274	0.0821
	Min	0.0004	0.0009	0.0013	0.0007	0.0009	0.0030	0.0007	0.0009	0.0028	0.0016	0.0025	0.0006
NO2 mg/L	Avg	0.0009	0.0009	0.0010	0.0008	0.0010	0.0020	0.0014	0.0015	0.0022[1]	0.0019	0.0016	0.0014
	Max	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0055	0.0029	0.0021	8.0000	0.0080	0.0029	0.0042
	Min	0.0003	0.0001	0.0002	<0.0003	<0.0003	0.0012	0.0004	0.0005	0.0012	0.0001	0.0001	<0.0003
NH4 mg/L	Avg	0.0057	0.0067	0.0061	0.0064	0.0081	0.0134	0.0115	0.0131	0.0214	0.0240	0.0081	0.0093
	Max	0.0110	0.0131	0.0210	0.0137	0.0154	0.0480	0.0245	0.0206	0.0912	0.1100	0.0107	0.0286
	Min	0.0024	0.0020	<0.0008	0.0029	0.0038	0.0041	0.0027	0.0062	0.0093	0.0029	0.0030	0.0023
TKN mg/L	Avg	0.1170	0.1300	0.0900	0.1800	0.1600	0.1900	0.3300	0.1700	0.1720	0.1100	0.1545	0.1960
	Max	0.1440	0.1700	0.0900	0.1800	0.1600	0.1900	0.3300	0.1700	0.2100	0.1600	0.1600	0.2800
	Min	0.0900	0.0900	0.0900	0.1800	0.1600	0.1900	0.3300	0.1700	0.1340	<0.0800	0.1490	0.1120
OPO4 mg/L	Avg	0.0007	0.0010	0.0012	0.0011	0.0010	0.0010	0.0011	0.0012	0.0015	0.0013	0.0009	0.0011
	Max	<0.0020	<0.0020	0.0024	0.0025	<0.0020	0.0033	0.0043	0.0022	0.0037	<0.0020	<0.0020	0.0030
	Min	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001	0.0002	0.0002	0.0002	0.0001	0.0001
TPO4 mg/L	Avg	0.0052	0.0049	0.0037	0.0046	0.0047	0.0053	0.0062	0.0056	0.0055	0.0048	0.0057	0.0061
	Max	0.0089	0.0090	0.0064	0.0156	0.0099	0.0119	0.0129	0.0143	0.0187	0.0118	0.0115	0.0143
	Min	0.0025	0.0020	0.0020	0.0022	0.0029	0.0030	0.0016	0.0030	0.0018	<0.0020	0.0020	0.0020
SIO2 mg/L	Avg	0.0062	ND	0.0170	0.0125	0.0378	ND	0.0493	0.0210	ND	0.0265	0.0060	ND
	Max	0.0170	ND	0.0170	0.0170	0.0600	ND	0.0860	0.0210	ND	0.0800	0.0060	ND
	Min	0.0017	ND	0.0170	0.0020	0.0140	ND	0.0200	0.0210	ND	0.0010	0.0060	ND
CHLOR A mg/M3	Avg	0.3291	0.3710	0.3623	0.2754	0.2953	0.2832	0.2236	0.2510	0.3014	0.3653	0.3692	0.3308
	Max	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	1.1152	0.4000	0.4000	0.9500	<1.0000	<1.0000	<1.0000
	Min	0.1000	<0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1460	0.1000	<0.1000	0.1000	0.1000
NO3 mg/L	Avg	0.0020	0.0034	0.0021	0.0033	0.0021	0.0152	0.0083	0.0039	0.0116	0.0231	0.0060	0.0140
	Max	<0.0050	0.0140	0.0060	0.0107	<0.0050	0.1286	0.0311	0.0086	0.0360	0.2142	0.0245	0.0779
	Min	0.0001	0.0004	0.0002	0.0002	0.0003	0.0006	0.0011	0.0016	0.0015	0.0009	0.0001	0.0008
TOT N MG N/L	Avg	0.3200	0.2700	0.1591	0.2162	0.2040	0.1830	0.2300[1]	0.3275[1]	0.2275[1]	0.2600	0.2400	0.1633
	Max	0.4000	0.2700	0.3400	0.3800	0.3000	0.3300	17.5400	27.1300	16.4400	0.3500	0.4300	0.3200
	Min	0.2400	0.2700	0.0656	0.0900	0.1019	0.0991	0.1600	0.1900	0.1600	0.1700	0.1000	0.0600
SAL. psu	Avg	35.1829	35.8882	36.6339	36.7582	37.8677	36.3963	36.4015	36.6592	35.2329	33.6910	34.0677	34.8147
	Max	37.1500	37.5000	37.7000	38.8000	40.4000	39.9000	39.4000	38.3400	37.8800	36.3000	37.4400	36.9800
	Min	32.4000	32.6000	34.5000	26.6000	36.1000	29.0000	30.5000	34.0000	30.2000	29.5000	31.3000	29.0000
TOC mg/L	Avg	2.5255	2.5300	2.1808	2.4518	3.1500	2.9730	3.2118	3.1425	2.5525	3.3179	2.4125	2.5040
	Max	3.7600	3.6900	3.4900	4.5900	6.9500	4.5200	4.7100	4.1200	3.6100	7.6400	4.1300	2.8700
	Min	1.7000	1.7100	1.4400	1.1200	1.9000	2.3000	1.4800	2.2300	1.5900	0.9000	1.0200	1.9400
AlkPO4 Nm/minmL	Avg	0.0662	0.1642	0.0989	0.1197	0.1401	0.1812	0.1918	0.1678	0.1294	0.1187	0.0890	0.0789
	Max	0.0805	0.7700	0.2000	0.2100	0.1900	0.2600	0.3600	0.2200	0.2400	0.1900	0.1500	0.1200
	Min	0.0400	0.0443	0.0600	0.0800	0.1003	0.1200	0.1052	0.0775	0.0400	0.0500	0.0500	0.0300
Sample Location BISC 111 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (≥ 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	19.0917	21.5909	23.1600	25.6154	27.9071	28.9583	30.5417	30.5231	29.3750	27.2314	23.3769	22.1769
	Max	24.4000	24.6000	28.0000	27.8000	30.2000	31.2000	31.5000	32.1000	31.5000	29.9400	25.4000	25.9000
	Min	13.5000	19.1000	19.4000	20.7000	25.3000	27.3000	28.8000	28.2000	28.1000	22.9000	20.9000	17.8000
D.O mg/L	Avg	6.9000	7.0727	6.6867	6.5538	6.3929	6.2417	5.6500	5.2923	5.1333	5.8586	6.5846	6.7615
	Max	8.6000	7.8000	8.4000	7.5000	7.8000	9.4000	6.4000	6.1000	6.3000	9.1200	9.2000	7.7000
	Min	3.9000	5.9000	4.2000	5.4000	5.0000	5.1000	4.3000	4.6000	3.9000	4.7000	5.1000	6.3000
SAL. psu	Avg	34.4667	35.4818	36.0533	37.2857	37.4533	36.0692	36.1833	36.1462	35.0917	33.4657	33.8923	33.8000
	Max	35.9000	37.5000	37.7000	38.9000	38.8000	39.4000	39.4000	38.2000	37.4000	36.2000	36.1000	36.2000
	Min	32.4000	33.2000	34.5000	36.0000	36.0000	32.4000	30.5000	34.1000	30.2000	30.0000	32.2000	29.0000

Table 2.3-31 (Sheet 13 of 22)
Biscayne Bay Water Quality

Sample Location BISC 112 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (< 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	20.2987	22.2029	23.0700	25.5833	27.7093	29.0550	30.8183	30.6392	29.5015	27.0200	23.8713	22.2647
	Max	23.8100	26.9500	28.2000	27.9000	30.3000	31.5000	31.8000	32.3000	32.0000	29.5000	26.3900	25.9000
	Min	13.7000	18.0000	19.3000	20.6000	24.3700	27.2000	29.1000	28.2000	28.3000	23.3000	21.0000	17.7000
D.O mg/L	Avg	7.1313	6.7543	6.8244	6.6847	6.3027	6.2114	5.3317	5.4023	5.2862	5.9013	6.6287	7.1540
	Max	8.3200	7.6000	8.6200	7.8000	8.0000	10.2000	7.1000	7.7000	6.9000	7.7100	8.4900	9.6600
	Min	4.6000	5.9000	4.7000	5.3000	5.0000	5.0000	3.8000	4.0000	3.7000	4.7000	5.7000	5.7000
PH UNITS	Avg	8.1583	8.2333	8.2400	7.8817	8.2114	8.1800	8.2040	8.1360	7.9600	8.0900	8.0350	8.0383
	Max	8.7000	8.3500	8.4000	8.5000	8.3000	8.4000	8.4000	8.7000	8.1000	8.4000	8.1500	8.2700
	Min	7.9800	8.1000	8.0300	7.1000	8.1700	8.1000	8.1100	7.9800	7.9000	7.9700	7.9000	7.9000
TURB NTU	Avg	0.9381	1.1754	1.0293	0.8254	0.7404	0.7942	0.6791	0.6842	0.8242	0.8271	1.4571	1.0218
	Max	1.7000	3.1000	4.3000	1.9000	1.6000	1.3000	1.2000	2.2000	2.3000	1.8000	5.9000	2.4000
	Min	0.1000	0.2000	0.3000	0.3750	0.4000	0.1000	0.2700	0.2000	0.2000	0.3000	0.4000	0.4000
NOX mg/L	Avg	0.0015	0.0024	0.0025	0.0040	0.0025	0.0288	0.0049	0.0047	0.0064	0.0030	0.0030	0.0043
	Max	0.0037	0.0082	0.0058	0.0105	0.0045	0.2060	0.0109	0.0216	0.0191	0.0063	0.0082	0.0175
	Min	0.0005	0.0007	0.0012	0.0018	0.0008	0.0004	0.0007	0.0012	0.0018	0.0007	0.0008	0.0004
NO2 mg/L	Avg	0.0006	0.0008	0.0008	0.0008	0.0007	0.0015	0.0011	0.0012	0.0013[1]	0.0007	0.0009	0.0008
	Max	0.0014	0.0017	0.0017	0.0017	0.0011	0.0049	0.0016	0.0021	8.0000	0.0012	0.0020	0.0025
	Min	0.0001	0.0002	0.0001	<0.0003	<0.0003	0.0004	0.0007	0.0001	0.0006	<0.0003	0.0001	<0.0003
NH4 mg/L	Avg	0.0048	0.0075	0.0066	0.0063	0.0090	0.0115	0.0107	0.0132	0.0149	0.0076	0.0060	0.0069
	Max	0.0100	0.0190	0.0223	0.0158	0.0170	0.0331	0.0219	0.0234	0.0448	0.0120	0.0147	0.0170
	Min	0.0015	0.0021	0.0007	0.0029	0.0048	0.0041	0.0005	0.0050	0.0064	0.0035	0.0028	0.0012
TKN mg/L	Avg	0.1530	0.1550	ND	ND	ND	ND	ND	ND	0.1590	0.1320	0.1750	0.1050
	Max	0.1530	0.1550	ND	ND	ND	ND	ND	ND	0.1590	0.1320	0.1750	0.1050
	Min	0.1530	0.1550	ND	ND	ND	ND	ND	ND	0.1590	0.1320	0.1750	0.1050
OPO4 mg/L	Avg	0.0005	0.0011	0.0010	0.0009	0.0008	0.0011	0.0010	0.0008	0.0016	0.0008	0.0006	0.0011
	Max	<0.0009	0.0022	0.0024	<0.0019	0.0012	0.0030	0.0044	0.0015	0.0041	0.0015	0.0014	0.0042
	Min	0.0002	0.0002	0.0001	0.0001	0.0003	0.0002	0.0001	0.0002	0.0002	0.0001	0.0001	0.0001
TPO4 mg/L	Avg	0.0059	0.0051	0.0039	0.0050	0.0052	0.0069	0.0072	0.0061	0.0065	0.0067	0.0071	0.0069
	Max	0.0103	0.0073	0.0063	0.0123	0.0078	0.0136	0.0198	0.0137	0.0182	0.0261	0.0129	0.0144
	Min	0.0033	0.0029	0.0025	0.0030	0.0027	0.0025	0.0021	0.0033	0.0026	0.0038	0.0040	0.0027
SIO2 mg/L	Avg	0.0057	ND	0.0420	0.0109	0.0278	ND	0.0333	0.0220	ND	0.0152	0.0040	ND
	Max	0.0110	ND	0.0420	0.0194	0.0350	ND	0.0630	0.0220	ND	0.0320	0.0040	ND
	Min	0.0010	ND	0.0420	<0.0020	0.0200	ND	0.0018	0.0220	ND	0.0010	0.0040	ND
CHLOR A mg/M3	Avg	0.2410	0.3400	0.3084	0.2337	0.2342	0.3109	0.2193	0.2200	0.3119	0.4667	0.3350	0.3250
	Max	0.5100	1.1000	1.1000	0.9371	1.0103	1.1199	0.4000	0.3277	1.0100	1.6000	0.7200	1.0000
	Min	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	<0.1000	0.2000	0.2000
NO3 mg/L	Avg	0.0010	0.0016	0.0018	0.0027	0.0016	0.0244	0.0040	0.0039	0.0048	0.0024	0.0030	0.0032
	Max	0.0023	0.0081	0.0052	0.0106	0.0036	0.2010	0.0094	0.0215	0.0175	0.0052	0.0104	0.0103
	Min	0.0001	0.0002	0.0004	0.0004	0.0001	0.0007	0.0005	0.0006	0.0008	0.0001	0.0002	0.0003
TOT N MG N/L	Avg	0.2750	0.2900	0.1624	0.2148	0.2021	0.1451	0.2333[1]	0.3150[1]	0.1800[1]	0.2500	0.2600	ND
	Max	0.3000	0.2900	0.2800	0.4400	0.2800	0.2800	15.2000	29.9800	14.8500	0.3200	0.3800	ND
	Min	0.2500	0.2900	0.0703	0.0800	0.0964	0.0754	0.1400	0.1900	0.1500	0.1800	0.1700	ND
SAL. psu	Avg	35.5944	35.9013	36.5518	37.1075	36.6963	35.9260	36.5967	36.3823	35.7385	34.3788	35.0388	35.5350
	Max	37.4700	37.5000	37.4700	38.2000	38.9000	38.2600	38.4800	38.3400	37.9500	36.2000	38.1600	37.2700
	Min	33.9000	33.3000	34.2000	36.0800	29.2000	29.0000	33.3000	34.3000	33.4000	31.6000	33.3000	33.3000
TOC mg/L	Avg	2.6630	2.3278	2.0436	2.4260	2.6638	2.8022	2.6720	2.6109	2.2555	2.4400	2.2355	2.2900
	Max	3.3300	3.4300	3.2600	4.5200	4.1200	4.3300	4.4200	3.8100	3.6000	3.4400	4.0700	2.9800
	Min	2.1000	1.5300	0.9200	1.2900	1.7100	2.1300	1.5700	1.9000	1.5100	0.7500	1.2200	1.3200
AlkPO4 Nm/minmL	Avg	0.0551	0.1331	0.0708	0.0903	0.1235	0.1300	0.1419	0.1486	0.1067	0.1043	0.0738	0.0651
	Max	0.1000	0.5400	0.0902	0.1900	0.1700	0.1900	0.2600	0.2100	0.1700	0.1818	0.1100	0.1034
	Min	0.0200	0.0443	0.0400	0.0500	0.0700	0.0560	0.0868	0.0866	0.0400	0.0700	0.0400	0.0400

Sample Location BISC 112 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (≥ 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	19.4083	21.5636	23.1467	25.6846	28.1071	29.0250	30.6250	30.4462	29.6000	27.1077	23.3692	22.1692
	Max	23.7000	24.3000	28.2000	27.9000	30.4000	31.4000	31.9000	32.3000	32.0000	29.6000	26.1000	25.9000
	Min	13.7000	18.1000	19.3000	20.6000	25.7000	27.1000	29.1000	28.2000	28.3000	23.3000	21.0000	17.8000
D.O mg/L	Avg	6.9417	7.0455	6.6467	6.4385	6.1643	6.2083	5.1250	4.9308	4.9917	5.6308	6.2154	6.7231
	Max	8.4000	8.0000	8.7000	8.2000	8.8000	10.6000	7.1000	6.2000	6.9000	8.4000	7.0000	7.5000
	Min	3.8000	5.8000	4.7000	5.0000	4.8000	4.6000	3.7000	3.4000	4.0000	4.5000	5.7000	5.9000
SAL. psu	Avg	35.0500	35.7818	36.0267	37.2071	37.0133	35.5769	36.1250	35.7539	35.2500	34.2846	34.7077	34.9923
	Max	36.1000	37.5000	37.1000	38.3000	38.4000	38.9000	38.1000	37.9000	36.9000	36.0000	36.1000	36.8000
	Min	33.9000	34.0000	34.2000	36.1000	36.0000	29.3000	33.3000	34.3000	33.7000	31.6000	33.3000	33.3000

Table 2.3-31 (Sheet 14 of 22)
Biscayne Bay Water Quality

Sample Location BISC 110 – Average, Maximum and Minimum Monthly Results for 1993-2010

Depth (< 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	20.4188	22.2950	23.1729	25.7819	28.0700	28.8587	31.0857	30.6050	29.1843	27.0719	24.0288	22.3219
	Max	24.4000	25.6900	28.8000	28.4000	30.6000	30.8000	32.2000	32.1000	30.6000	30.1000	27.5000	27.1000
	Min	14.7000	18.0000	19.4000	21.1000	24.6700	27.1500	28.5000	27.4000	27.8000	23.6000	20.2000	17.7000
D.O mg/L	Avg	7.3013	6.9238	6.5447	6.8087	6.4450	6.3140	5.8050	5.5950	6.0271	6.5056	7.1138	7.1919
	Max	8.2000	8.6000	8.1000	8.5000	7.8700	9.9000	8.1000	6.3000	8.5000	7.6700	8.4000	8.3000
	Min	3.9000	5.1000	4.1000	4.6000	4.6000	5.0000	2.4500	4.9000	5.0000	5.2000	6.4800	6.5000
PH UNITS	Avg	8.1229	8.1675	8.1229	7.7914	8.2150	8.1575	8.1700	8.1067	8.0200	8.0786	8.0557	8.0571
	Max	8.7000	8.3700	8.4000	8.4000	8.3600	8.6000	8.4000	8.3000	8.1000	8.4000	8.2000	8.2300
	Min	7.9900	8.0000	7.9600	7.3000	8.1000	8.0000	8.0000	8.0000	7.9000	7.9300	7.9800	7.9000
TURB NTU	Avg	0.6957	0.8093	0.5731	0.6627	0.5657	0.7779	0.6500	0.4808	0.7892	0.8420	0.5573	0.7737
	Max	1.8000	2.3000	1.7000	1.4000	1.6000	3.4000	1.7000	0.9000	1.4000	2.7000	0.9000	1.8000
	Min	0.1000	0.2000	0.1300	0.2000	0.1000	0.1000	0.2000	0.1500	0.2000	0.3000	0.2000	0.1500
NOX mg/L	Avg	0.0607	0.0397	0.0324	0.0102	0.0103	0.1334	0.0616	0.0496	0.1405	0.1140	0.0822	0.1418
	Max	0.1794	0.1909	0.1446	0.0517	0.0302	0.5096	0.4076	0.1259	0.4727	0.2910	0.3113	0.4731
	Min	0.0070	0.0044	0.0016	0.0029	0.0008	0.0082	0.0023	0.0045	0.0240	0.0049	0.0055	0.0086
NO2 mg/L	Avg	0.0024	0.0021	0.0018	0.0014	0.0014	0.0055	0.0033	0.0031	0.0066[1]	0.0057	0.0040	0.0053
	Max	0.0051	0.0043	0.0049	0.0027	0.0028	0.0175	0.0106	0.0065	8.0000	0.0233	0.0091	0.0150
	Min	0.0010	0.0006	0.0002	0.0007	<0.0003	0.0011	0.0007	0.0012	0.0025	0.0005	0.0001	0.0006
NH4 mg/L	Avg	0.0129	0.0139	0.0105	0.0085	0.0122	0.0293	0.0158	0.0222	0.0376	0.0319	0.0189	0.0254
	Max	0.0284	0.0265	0.0318	0.0247	0.0244	0.0805	0.0268	0.0336	0.0846	0.1254	0.0494	0.0758
	Min	0.0066	0.0030	0.0013	0.0039	0.0060	0.0076	0.0004	0.0076	0.0120	0.0042	0.0079	0.0030
TKN mg/L	Avg	0.2135	0.1985	0.1800	0.1700	0.1500	0.1600	0.4300	0.2900	0.2650	0.2340	0.2240	0.2445
	Max	0.2670	0.2570	0.1800	0.1700	0.1500	0.1600	0.4300	0.2900	0.2700	0.2380	0.2380	0.2600
	Min	0.1600	0.1400	0.1800	0.1700	0.1500	0.1600	0.4300	0.2900	0.2600	0.2300	0.2100	0.2290
OPO4 mg/L	Avg	0.0009	0.0012	0.0012	0.0011	0.0007	0.0014	0.0010	0.0017	0.0016	0.0013	0.0012	0.0017
	Max	<0.0020	<0.0020	<0.0020	0.0025	<0.0020	0.0033	0.0029	0.0059	0.0026	0.0026	0.0022	0.0041
	Min	0.0003	0.0006	0.0004	0.0001	0.0002	0.0002	0.0001	0.0005	0.0006	0.0001	0.0002	0.0003
TPO4 mg/L	Avg	0.0046	0.0043	0.0036	0.0044	0.0046	0.0065	0.0068	0.0058	0.0071	0.0059	0.0054	0.0061
	Max	0.0075	0.0070	0.0068	0.0133	0.0082	0.0157	0.0179	0.0159	0.0258	0.0127	0.0103	0.0191
	Min	0.0020	0.0020	0.0013	0.0017	0.0027	0.0020	0.0020	0.0027	0.0015	<0.0020	0.0020	0.0020
SIO2 mg/L	Avg	0.0182	ND	0.0210	0.0536	0.0805	ND	0.0888	0.2940	ND	0.1638	0.0180	ND
	Max	0.0343	ND	0.0210	0.1400	0.1800	ND	0.1410	0.2940	ND	0.3410	0.0180	ND
	Min	<0.0020	ND	0.0210	0.0160	0.0260	ND	0.0340	0.2940	ND	0.0030	0.0180	ND
CHLOR A mg/M3	Avg	0.3245	0.4700	0.3704	0.3056	0.3035	0.3284	0.2619	0.2736	0.3073	0.4000	0.3692	0.3592
	Max	<1.0000	1.3000	1.1000	<1.0000	1.1461	1.1128	0.4000	0.5000	0.9500	<1.0000	<1.0000	<1.0000
	Min	0.1000	<0.1000	0.1000	0.1000	0.1000	0.1000	0.2000	0.1570	0.1000	<0.1000	0.2000	0.1000
NO3 mg/L	Avg	0.0634	0.0400	0.0309	0.0094	0.0089	0.1168	0.0584	0.0464	0.1340	0.1084	0.0786	0.1428
	Max	0.1753	0.1866	0.1397	0.0507	0.0282	0.4921	0.3970	0.1194	0.4561	0.2860	0.3022	0.4581
	Min	0.0074	0.0035	0.0008	0.0019	0.0004	0.0062	0.0012	0.0034	0.0180	0.0044	0.0043	0.0076
TOT N MG N/L	Avg	0.3800	0.3100	0.2014	0.2600	0.2565	0.3333	0.2500[1]	0.4500[1]	0.3700[1]	0.3550	0.2933	ND
	Max	0.4200	0.3100	0.3600	0.5200	0.3400	0.5800	20.4400	12.8100	17.1500	0.3800	0.3500	ND
	Min	0.3400	0.3100	0.0880	0.1100	0.1694	0.1099	0.2100	0.2600	0.2600	0.3300	0.2000	ND
SAL. psu	Avg	30.6859	32.6353	33.9894	36.2188	37.5712	33.4125	33.7600	33.3071	30.4900	27.7629	28.6894	29.2759
	Max	34.4700	37.3300	37.7000	40.2000	41.1000	40.6000	40.3000	37.3000	36.6000	33.0000	33.6000	33.6100
	Min	21.5000	24.9000	24.1000	30.8000	31.7000	19.3000	21.1000	23.6000	15.1000	23.4000	19.9000	18.3000
TOC mg/L	Avg	3.2709	3.2700	3.3467	3.4618	3.5067	3.5990	3.9345	4.1550	3.6036	3.7167	3.3462	3.7140
	Max	4.3700	4.3500	6.2500	5.9600	5.4100	5.9800	5.5700	7.8400	5.3100	5.7300	5.1100	6.5300
	Min	2.1900	2.3400	2.3000	2.0900	1.8000	2.2000	2.1300	2.3500	2.6000	2.3200	2.0000	2.6400
AlkPO4 Nm/minmL	Avg	0.1481	0.2524	0.1438	0.1812	0.2270	0.2277	0.2716	0.2510	0.2069	0.2054	0.1441	0.1323
	Max	0.5474	0.9300	0.3224	0.3872	0.7726	0.5000	0.8400	0.5100	0.4278	0.3200	0.2520	0.2350
	Min	0.0700	0.0800	0.0800	0.0700	0.1000	0.1300	0.1400	0.1387	0.1100	0.1000	0.0700	0.0600

Sample Location BISC 110 – Average, Maximum and Minimum Monthly Results for 1993-2010

Depth (≥ 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	19.7167	22.1545	23.6867	26.2077	28.5000	29.1667	30.8909	30.6615	29.3833	27.4462	23.6231	22.4308
	Max	24.4000	24.6000	28.8000	28.4000	30.7000	30.8000	32.2000	32.0000	30.6000	30.3000	27.5000	27.1000
	Min	14.7000	18.0000	19.4000	21.0000	25.8000	27.5000	28.5000	27.4000	28.4000	23.7000	20.2000	17.7000
D.O mg/L	Avg	7.3167	7.6000	6.7400	6.4727	6.6429	6.6000	6.4909	5.5231	6.1917	6.5308	7.3538	7.3077
	Max	8.5000	8.9000	8.1000	8.6000	7.7000	10.6000	8.8000	6.3000	9.3000	8.6000	8.6000	8.4000
	Min	3.8000	5.8000	4.2000	4.6000	4.4000	5.2000	4.5000	4.8000	5.0000	5.2000	6.5000	6.6000
SAL. psu	Avg	28.3583	30.8727	31.7467	35.4571	36.6867	34.1769	32.0000	32.5385	28.7083	27.8769	27.2231	27.8077
	Max	33.1000	36.0000	37.2000	40.2000	41.1000	40.7000	40.3000	38.0000	36.6000	33.0000	34.0000	32.1000
	Min	21.7000	24.9000	24.1000	30.7000	31.7000	27.5000	21.1000	23.7000	15.0000	23.3000	19.9000	18.5000

Table 2.3-31 (Sheet 15 of 22)
Biscayne Bay Water Quality

Sample Location MW01 – Average, Maximum and Minimum Monthly Results for 1993-2010
Depth (< 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	20.6040	22.1782	22.0138	24.5892	26.5355	28.0133	29.3410	30.7075	27.4936	27.1450	26.0558	22.2808
	Max	24.7900	24.8100	24.8100	27.7100	30.2300	30.7900	31.5000	32.6900	30.6500	29.5900	28.7900	25.4900
	Min	16.0800	16.7200	19.2900	16.0000	16.0000	16.0000	25.4200	27.4500	25.8700	25.0700	22.9200	15.6500
D.O mg/L	Avg	6.7573	5.7400	6.8138	6.0408	5.0591	5.2758	5.2150	4.5225	4.2564	5.2075	5.2058	6.2442
	Max	8.3700	8.1500	8.8500	7.1200	5.9100	6.7200	7.3400	6.5900	6.0000	7.1800	6.8200	8.4700
	Min	5.3200	2.6500	4.7200	4.7600	3.7900	3.3700	2.4400	2.5700	3.0600	3.1600	3.9100	2.8800
PH UNITS	Avg	7.8536	7.9091	8.0292	8.0942	8.0970	7.6683	7.8220	7.7442	7.4591	7.5008	7.6767	7.8050
	Max	8.1800	8.1500	8.4000	8.2600	8.6100	8.1100	8.1700	8.0400	7.7800	7.7200	7.8500	8.2900
	Min	7.5800	7.6600	7.7100	7.7200	7.6200	7.2700	7.4000	6.9000	7.2700	7.2700	7.3900	7.3000
TURB NTU	Avg	1.0500	0.6000	1.1667	0.9533	1.4000	1.1667	ND	0.7000	0.5000	1.4000	1.0500	0.5000
	Max	1.3000	0.6000	1.3000	1.6600	2.2000	1.3000	ND	0.7000	0.5000	2.3000	1.5000	0.6000
	Min	0.8000	0.6000	0.9000	0.6000	0.6000	1.1000	ND	0.7000	0.5000	0.5000	0.6000	0.4000
NOX mg/L	Avg	0.7400	0.5800	0.1900	0.8700	0.0200	0.9933	ND	0.3000	1.6400	0.6750	1.0550	0.5750
	Max	0.7400	0.7900	0.2700	0.8700	0.0300	1.3200	ND	0.3000	1.6400	0.7600	1.7500	0.8700
	Min	0.7400	0.1600	0.0300	0.8700	<0.0100	0.8300	ND	0.3000	1.6400	0.5900	0.3600	0.2800
NH4 mg/L	Avg	0.0350	0.0500	0.0600	0.0400	0.0950	0.0500	ND	0.1000	0.0400	0.0600	0.1050	0.0600
	Max	<0.0400	0.0600	0.0600	0.0600	0.1300	0.0500	ND	0.1000	0.0400	0.0800	0.1200	0.0700
	Min	0.0300	0.0300	0.0600	0.0300	0.0600	0.0500	ND	0.1000	0.0400	0.0400	0.0900	0.0500
TKN mg/L	Avg	<0.0800	ND	0.2100	ND	0.1400	ND	ND	ND	0.2700	ND	0.4200	ND
	Max	<0.0800	ND	0.2100	ND	0.1400	ND	ND	ND	0.2700	ND	0.4700	ND
	Min	<0.0800	ND	0.2100	ND	0.1400	ND	ND	ND	0.2700	ND	0.3700	ND
OPO4 mg/L	Avg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0030	<0.0020	0.0030
	Max	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0030	<0.0020	0.0030
	Min	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0030	<0.0020	0.0030
TPO4 mg/L	Avg	0.0050	0.0050	0.0083	0.0070	0.0060	0.0123	ND	0.0070	ND	0.0030	0.0060	0.0050
	Max	0.0050	0.0050	0.0170	0.0070	0.0080	0.0140	ND	0.0070	ND	0.0030	0.0070	0.0050
	Min	0.0050	0.0050	0.0040	0.0070	0.0040	0.0090	ND	0.0070	ND	0.0030	0.0050	0.0050
CHLOR A mg/M3	Avg	0.2700	0.5500	0.7700	0.3200	0.9050	1.0600	ND	0.8000	0.1300	0.5733	0.6567	1.1400
	Max	0.2700	0.5500	0.7700	0.3200	1.2800	1.4700	ND	0.8000	0.1300	0.7500	0.8200	1.3900
	Min	0.2700	0.5500	0.7700	0.3200	0.5300	0.6500	ND	0.8000	0.1300	0.2200	0.3300	0.6400
SAL. psu	Avg	13.9791	15.7909	19.6231	21.1617	26.6455	13.8117	16.9633[1]	20.4755[1]	7.3100[1]	9.3936[1]	11.0375[1]	14.3542
	Max	24.2000	27.9000	31.2000	34.1000	36.5000	29.2000	32.0000	31.6000	25.3000	13.7200	20.1000	27.3800
	Min	1.8000	5.0000	8.4000	7.4000	14.1000	7.6200	0.6000	0.8000	0.5000	0.4000	0.0100	2.8000

Sample Location MW01 – Average, Maximum and Minimum Monthly Results for 1993-2010
Depth (> 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	19.0063	21.2627	22.0129	24.3513	26.5938	29.5219	30.2962	30.6216	28.0824	27.2321	25.1729	22.9721
	Max	24.6400	24.6600	27.2000	26.8300	29.3000	31.1100	32.8100	32.7900	30.7500	30.9300	28.7300	26.2300
	Min	13.8900	14.6100	18.2600	21.4400	22.0500	27.4400	25.4400	27.3100	25.8300	24.6800	21.2800	14.7700
D.O mg/L	Avg	7.3919	7.0444	6.8888	5.7075	5.4069	5.1169	4.5989	4.1053	3.8141	4.5579	5.7314	5.8979
	Max	8.9800	9.3500	8.4100	6.7400	6.6900	8.0100	7.1100	6.2700	5.5300	6.2200	8.6200	8.7000
	Min	5.4900	3.1500	5.1600	4.2000	3.7200	2.5500	2.2400	2.1500	2.8900	3.0800	2.9500	2.7900
PH UNITS	Avg	8.0106	8.0993	8.1359	8.1538	8.2471	8.0150	8.0390	7.8483	7.6306	7.6386	7.8929	7.9029
	Max	8.2300	8.3900	8.4600	8.3100	8.6800	8.3500	8.4500	8.1800	7.9400	8.0100	8.3400	8.3200
	Min	7.5900	7.7800	7.7800	7.7900	7.8100	7.5600	7.5900	7.1000	7.2800	7.2600	7.4100	7.3100
TURB NTU	Avg	1.1783	1.5683	1.5075	1.2500	1.4000	1.6060	1.1980	0.9828	0.8671	8.7525	1.2000	1.5000
	Max	2.5000	3.2000	3.3000	2.5000	3.3000	2.7000	3.2000	2.2000	1.6000	34.0000	2.7000	3.3000
	Min	0.2400	0.1100	0.1700	0.1600	0.2000	0.5300	0.1800	0.4670	0.2200	0.1100	<0.1000	0.2000
NOX mg/L	Avg	0.5867	0.4500	0.4578	0.0983	0.1729	0.4733	0.6673	0.5238	1.2975	1.5500	0.9820	0.7700
	Max	1.4200	1.0000	1.4200	0.5100	0.6600	1.0400	2.4700	2.2400	2.2000	2.7200	1.3400	1.1000
	Min	0.1600	0.0100	0.0100	<0.0100	<0.0100	<0.0100	0.0300	<0.0100	0.0600	0.9000	0.5400	0.1100
NH4 mg/L	Avg	0.0933	0.0457	0.0529	0.0700	0.0771	0.0533	0.0309	0.0535	0.0657	0.0380	0.0540	0.0600
	Max	0.3300	0.1100	0.1000	0.1400	0.1600	0.1600	0.0600	0.1100	0.1100	0.0800	0.0800	0.0800
	Min	<0.0100	<0.0100	0.0200	0.0200	0.0100	<0.0100	<0.0100	<0.0079	0.0100	<0.0100	0.0300	0.0400
TKN mg/L	Avg	ND	ND	ND	ND	ND	ND	0.1600	ND	ND	ND	ND	ND
	Max	ND	ND	ND	ND	ND	ND	0.1600	ND	ND	ND	ND	ND
	Min	ND	ND	ND	ND	ND	ND	0.1600	ND	ND	ND	ND	ND
TPO4 mg/L	Avg	0.0083	0.0077	0.0090	0.0064	0.0070	0.0090	0.0067	0.0125	0.0136	0.0145	0.0088	0.0118
	Max	0.0180	0.0130	0.0180	0.0110	0.0110	0.0200	0.0180	0.0390	0.0290	0.0400	0.0180	0.0300
	Min	0.0030	0.0040	0.0050	<0.0030	0.0040	0.0040	<0.0010	<0.0010	<0.0010	0.0020	0.0030	0.0010
SAL. psu	Avg	20.3831	22.3969	23.5153	29.1313	30.8038	27.5325	25.0060[1]	26.1533[1]	18.6000[1]	16.5000[1]	14.1908[1]	16.7436
	Max	26.3300	29.0000	32.0000	36.3000	40.6000	37.4000	35.2000	35.0000	31.7000	31.5000	28.0200	25.7000
	Min	2.4000	5.0000	8.7000	19.1000	19.4000	8.6000	0.6000	0.8000	0.5000	0.4000	2.2000	2.9000

Table 2.3-31 (Sheet 16 of 22)
Biscayne Bay Water Quality

Sample Location MW04 – Average, Maximum and Minimum Monthly Results for 1993-2010
Depth (< 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	22.1489	22.9833	23.3443	24.6458	26.4450	28.3460	28.6255	28.9155	26.5636	26.3440	25.0720	22.9180
	Max	25.1000	24.8400	27.1400	26.7500	29.4300	29.6900	30.4600	31.0300	27.9100	28.6900	26.2200	25.8800
	Min	18.1200	20.0100	20.5900	16.0000	16.0000	27.0100	25.7500	26.4600	25.9200	25.4800	23.3900	20.1200
D.O mg/L	Avg	6.1510	6.3642	7.8507	8.4500	8.2192	5.7150	6.0027	6.0645	3.6718	4.3180	5.5160	5.5300
	Max	8.5000	8.3000	10.1500	10.1800	12.8900	7.4600	9.5300	8.9400	6.8100	5.7700	6.5200	7.0400
	Min	4.0100	3.3800	5.9200	7.3200	4.8400	4.6100	3.8500	3.2700	2.1800	3.1700	4.5600	1.4800
PH UNITS	Avg	7.3860	7.5683	7.6177	7.7250	7.8045	7.5390	7.4591	7.4875	7.2736	7.3730	7.3320	7.4790
	Max	7.6100	7.9300	7.8500	7.9600	7.9600	7.6100	7.9800	7.8700	7.5100	7.6600	7.5500	7.7400
	Min	7.2100	7.3000	7.3700	7.1600	7.3400	7.3700	7.1900	7.2600	7.0700	7.1500	6.8500	6.9900
TURB NTU	Avg	0.8000	0.3000	0.5333	0.9267	0.4667	2.3000	0.5000	0.6000	0.5000	0.5000	0.4000	0.3000
	Max	0.8000	0.3000	0.6000	1.5800	0.6000	2.3000	0.5000	0.6000	0.5000	0.5000	0.4000	0.3000
	Min	0.8000	0.3000	0.5000	0.6000	0.4000	2.3000	0.5000	0.6000	0.5000	0.5000	0.4000	0.3000
NOX mg/L	Avg	ND	2.3267	1.4800	1.8867	2.0733	2.2100	1.5000	1.9900	1.0100	2.1200	2.1800	1.7400
	Max	ND	2.6400	1.6500	1.9200	<2.0800	2.2100	1.5000	1.9900	1.0100	2.1200	2.1800	1.7400
	Min	ND	2.1700	1.1400	1.8200	<2.0600	2.2100	1.5000	1.9900	1.0100	2.1200	2.1800	1.7400
NH4 mg/L	Avg	<0.0400	0.0233	<0.0100	0.0367	0.0200	0.0600	0.0300	<0.0100	0.0267	0.0100	0.0100	0.0400
	Max	<0.0400	0.0300	<0.0100	0.0400	0.0200	0.0600	0.0300	<0.0100	0.0300	0.0100	0.0100	0.0400
	Min	<0.0400	<0.0100	<0.0100	0.0300	0.0200	0.0600	0.0300	<0.0100	0.0200	0.0100	0.0100	0.0400
TKN mg/L	Avg	<0.1000	ND	0.2733	ND	0.2500	ND	0.2700	ND	0.2300	ND	0.4100	ND
	Max	<0.1000	ND	0.4000	ND	0.2500	ND	0.2700	ND	0.2300	ND	0.4100	ND
	Min	<0.1000	ND	0.2100	ND	0.2500	ND	0.2700	ND	0.2300	ND	0.4100	ND
OPO4 mg/L	Avg	<0.0010	<0.0020	<0.0020	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Max	<0.0010	<0.0020	<0.0020	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Min	<0.0100	<0.0020	<0.0020	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
TPO4 mg/L	Avg	0.0010	0.0040	0.0053	0.0063	0.0030	0.0070	0.0040	0.0040	0.0050	0.0060	0.0030	0.0070
	Max	0.0010	0.0040	0.0060	0.0070	0.0030	0.0070	0.0040	0.0040	0.0050	0.0060	0.0030	0.0070
	Min	0.0010	0.0040	0.0040	0.0050	0.0030	0.0070	0.0040	0.0040	0.0050	0.0060	0.0030	0.0070
SAL. psu	Avg	0.8000	0.4717	0.6164	0.5242	0.4842	0.3760	0.3600	0.3325	0.4018	0.3910	0.4467	0.6967[1]
	Max	3.6000	0.7600	1.5300	0.9000	1.0000	0.5000	0.4000	0.4000	0.6000	0.5000	0.6000	12.1400
	Min	0.4000	0.1000	0.3000	0.2000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.4000

Sample Location MW04 – Average, Maximum and Minimum Monthly Results for 1993-2010
Depth (≥ 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	21.1882	22.4973	23.4550	25.4525	26.9357	27.2020	27.2768	27.6795	26.1647	26.6831	25.1313	24.1631
	Max	25.0700	24.7800	26.9500	26.6000	29.4900	29.7300	29.9400	30.0300	27.5200	30.6100	29.4300	26.2600
	Min	17.3500	19.6400	19.9000	24.6100	24.7300	25.5000	25.2200	26.1600	25.3000	25.3000	23.0700	21.6200
D.O mg/L	Avg	6.1278	7.3413	7.6840	8.0763	8.4533	5.0800	5.8721	5.4912	3.2188	3.8581	5.1040	4.7436
	Max	8.6200	9.4400	10.4600	10.2500	17.9500	7.6300	11.9500	9.0800	6.8100	5.7100	6.5400	7.0600
	Min	3.3400	3.0200	4.7800	1.8200	2.4000	0.9500	1.2100	2.5600	1.2600	1.1300	0.5400	2.4900
PH UNITS	Avg	7.4694	7.5750	7.5944	7.6819	7.7385	7.3707	7.3168	7.3858	7.2082	7.2763	7.2600	7.3806
	Max	8.1600	7.9500	7.8200	7.9800	7.9700	7.5600	7.9700	7.8500	7.5000	7.6600	7.5600	7.7200
	Min	7.1700	7.2500	7.2000	7.1500	7.2900	7.1700	6.9300	7.0700	6.9600	6.9400	6.8100	7.0300
TURB NTU	Avg	1.2825	0.5500	0.7838	0.9400	1.4500	0.7333	1.1286	0.6478	0.5750	3.2350	0.5167	0.5133
	Max	5.9000	0.8000	1.4000	2.1000	2.4000	1.5000	2.6000	1.0000	1.1000	17.4000	1.1000	1.4000
	Min	0.1700	<0.1000	0.1300	<0.1000	0.6000	0.1800	0.4000	0.2730	0.3000	0.1100	<0.1000	0.1800
NOX mg/L	Avg	2.4522	2.3871	2.2822	2.1700	1.8767	1.8000	2.2144	2.0463	2.2488	2.3538	2.4786	2.3613
	Max	3.0400	3.0900	3.1900	3.0900	2.6700	2.6800	3.5000	3.4300	3.2000	3.2300	3.1200	2.5800
	Min	1.7100	1.5100	1.5100	1.8200	0.1800	0.8000	0.9900	1.5800	1.2300	1.3800	1.9500	2.1500
NH4 mg/L	Avg	0.0322	0.0243	0.0200	0.0200	0.0217	0.0300	0.0225	0.0240	0.0383	0.0243	0.0186	0.0157
	Max	0.0900	0.0600	0.0400	0.0300	<0.0400	0.0800	0.0700	0.0500	0.1000	0.0600	0.0300	0.0300
	Min	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0100	<0.0100	<0.0079	0.0100	<0.0100	0.0100	<0.0100
TKN mg/L	Avg	0.1900	2.5000	0.8750	ND	0.2390	0.3500	0.4750	ND	0.4250	ND	0.2100	0.2000
	Max	0.5000	2.5000	2.4000	ND	0.3170	0.4000	0.7000	ND	0.5000	ND	0.3000	0.2000
	Min	0.0800	2.5000	0.3000	ND	0.2000	0.3000	0.3000	ND	0.4000	ND	0.1300	0.2000
OPO4 mg/L	Avg	0.0028	0.0033	0.0027	0.0025	0.0027	0.0045	0.0048	0.0050	0.0045	0.0237	0.0025	0.0023
	Max	0.0040	0.0040	0.0040	0.0030	0.0050	0.0060	0.0090	0.0070	0.0060	0.0670	0.0030	0.0030
	Min	<0.0020	0.0020	0.0010	<0.0020	<0.0010	0.0030	0.0020	0.0030	0.0030	<0.0020	0.0020	<0.0020
TPO4 mg/L	Avg	0.0035	0.0046	0.0034	0.0040	0.0035	0.0038	0.0055	0.0047	0.0091	0.0238	0.0034	0.0050
	Max	0.0060	0.0100	0.0050	0.0050	0.0060	0.0060	0.0100	0.0090	0.0450	0.1020	0.0080	0.0110
	Min	0.0020	0.0030	<0.0001	<0.0030	<0.0010	0.0020	0.0030	<0.0010	<0.0010	0.0020	0.0020	0.0030
SAL. psu	Avg	0.9824[1]	0.4200[1]	0.4368[1]	0.5050	0.6800[1]	0.5543[1]	0.5020	0.4026	0.6441	0.6240[1]	0.4673[1]	0.6883[1]
	Max	22.9600	15.9100	13.4900	1.2000	16.6000	7.3000	1.5000	0.8000	2.2000	20.2500	11.8700	10.9000
	Min	0.4000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.4000

Table 2.3-31 (Sheet 17 of 22)
Biscayne Bay Water Quality

Sample Location BB41 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (< 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	17.3480	21.3714	20.8220	23.4091	25.9692	28.4239	29.7980	30.3418	29.0046	27.6325	25.6958	21.3067
	Max	24.0700	23.9600	24.7400	26.8200	28.4700	30.3000	31.4500	31.5300	30.0500	30.4100	28.2000	26.1300
	Min	12.9600	15.8200	17.7400	16.0000	16.0000	16.0000	27.4000	29.3600	26.3000	25.1800	21.5000	15.1200
D.O mg/L	Avg	7.8779	6.3907	7.1510	6.4855	6.1467	5.7192	5.4289	5.3708	5.7527	6.0333	6.4750	7.2033
	Max	8.5700	7.8400	7.8300	6.8500	6.5800	6.8800	6.3200	6.4000	6.2800	6.6500	7.7300	8.3400
	Min	6.8800	3.1200	6.1100	6.0900	5.5100	5.1900	4.7300	4.6300	4.9700	5.3800	5.6300	6.6100
PH UNITS	Avg	8.0173	8.0893	8.0900	8.0555	8.1355	7.9946	8.1150	7.9833	7.9500	7.9992	8.0945	8.0675
	Max	8.2100	8.2900	8.2700	8.2100	8.3500	8.2000	8.3500	8.1200	8.1600	8.0400	8.1900	8.2200
	Min	7.8300	7.9500	7.7800	7.8000	7.7600	7.6800	7.9400	7.1700	7.8400	7.9200	8.0200	7.8100
TURB NTU	Avg	0.5500	0.4000	0.7000	0.5867	0.5333	0.5750	ND	0.3000	0.7000	0.5000	0.4000	0.3500
	Max	0.7000	0.4000	0.8000	0.6000	0.8000	0.8000	ND	0.3000	0.7000	0.7000	0.5000	0.4000
	Min	0.3000	0.4000	0.6000	0.5600	0.4000	0.5000	ND	0.3000	0.7000	0.3000	0.3000	0.3000
NOX mg/L	Avg	0.0400	0.0250	<0.0100	<0.0100	<0.0100	0.0225	ND	<0.0100	0.0600	0.0500	0.0450	0.0700
	Max	0.0600	0.0400	<0.0100	<0.0100	<0.0100	0.0300	ND	<0.0100	0.0600	0.0600	0.0600	0.1300
	Min	0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0200	ND	<0.0100	0.0600	0.0400	0.0300	<0.0100
NH4 mg/L	Avg	0.0717	0.1100	0.0650	0.0700	0.1000	0.0825	ND	0.1200	0.1000	0.0900	0.1050	0.0850
	Max	0.0900	0.1300	0.0800	0.0900	0.1000	0.1000	ND	0.1200	0.1000	0.1000	0.1400	0.0900
	Min	<0.0400	0.0900	0.0500	0.0300	0.1000	0.0300	ND	0.1200	0.1000	0.0800	0.0700	0.0800
TKN mg/L	Avg	<0.0800	<0.0800	0.0900	<0.0800	<0.0800	<0.0800	ND	<0.0800	0.1700	0.2600	0.3450	<0.0800
	Max	<0.0800	<0.0800	0.0900	<0.0800	<0.0800	<0.0800	ND	<0.0800	0.1700	0.2600	0.5400	<0.0800
	Min	<0.0800	<0.0800	0.0900	<0.0800	<0.0800	<0.0800	ND	<0.0800	0.1700	0.2600	0.1500	<0.0800
OPO4 mg/L	Avg	0.0026	0.0025	<0.0020	<0.0020	<0.0020	<0.0020	ND	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Max	0.0030	0.0030	<0.0020	<0.0020	<0.0020	<0.0020	ND	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Min	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	ND	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
TPO4 mg/L	Avg	0.0018	0.0025	0.0030	<0.0020	<0.0020	0.0020	ND	<0.0020	0.0050	0.0025	0.0025	<0.0020
	Max	<0.0020	0.0030	0.0040	<0.0020	<0.0020	0.0020	ND	<0.0020	0.0050	0.0030	0.0030	<0.0020
	Min	0.0010	0.0020	<0.0020	<0.0020	<0.0020	0.0020	ND	<0.0020	0.0050	<0.0020	<0.0020	<0.0020
CHLOR A mg/M3	Avg	0.2040	0.3320	0.1950	0.1600	0.2250	0.3520	ND	0.4300	0.4667	0.4780	0.3060	0.2220
	Max	0.2700	0.4700	0.2000	0.1800	0.2700	0.3900	ND	0.6100	0.5800	0.8700	0.4300	0.2900
	Min	<0.1600	0.2000	0.1900	0.1200	0.1700	0.2600	ND	0.3400	0.2400	0.1900	0.2100	0.1700
SAL. psu	Avg	32.0293	32.5247	32.4360	34.3318	35.8750	34.2908	33.6950	34.5392	32.1882	30.8275	29.4483	31.2650
	Max	33.9800	33.3000	34.8000	36.2000	39.2000	40.0000	38.3000	38.4000	37.6000	34.3000	34.8000	33.5000
	Min	28.2000	29.9000	28.7000	32.7000	33.6000	24.1000	28.0000	24.9000	24.7000	26.1000	24.9000	24.3000
TOC mg/L	Avg	<3.0200	7.0200	2.8800	3.4600	5.0000	7.0700	ND	ND	8.9600	5.6450	3.8000	6.0700
	Max	<3.0200	7.0200	3.4600	4.1900	5.0000	7.0700	ND	ND	8.9600	6.4800	3.8000	6.0700
	Min	<3.0200	7.0200	2.3000	2.0000	5.0000	7.0700	ND	ND	8.9600	4.8100	3.8000	6.0700

Table 2.3-31 (Sheet 18 of 22)
Biscayne Bay Water Quality

Sample Location BB41 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (≥ 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	18.2056	20.6993	21.4611	24.4643	26.3281	29.0125	29.8314	30.0829	28.7465	27.4686	24.6143	22.3829
	Max	23.9300	23.9600	27.0500	26.7900	28.5000	30.4000	31.3300	31.5500	30.0000	30.4000	28.2000	26.1000
	Min	12.9400	15.8200	17.7400	22.4000	22.7500	27.7300	27.4200	29.3500	26.3000	25.2200	21.5100	15.1200
D.O mg/L	Avg	7.9146	7.1347	7.1521	6.6136	6.3825	6.0194	5.5763	5.5653	5.7259	6.2600	6.9936	7.1679
	Max	8.5900	7.9900	7.9500	7.1800	7.0700	7.2500	7.0300	6.2200	6.4700	7.4500	7.8000	8.2600
	Min	7.4500	3.6700	6.0900	6.1200	5.5800	5.3100	4.9100	4.7000	5.0300	5.5200	6.3200	6.5600
PH UNITS	Avg	8.0600	8.0824	8.0900	8.0707	8.1471	8.0331	8.1081	7.9721	7.9873	7.9900	8.1150	8.0858
	Max	8.2200	8.3000	8.2700	8.2100	8.3600	8.2500	8.3000	8.1700	8.1400	8.1100	8.2400	8.2200
	Min	7.8800	7.9500	7.7800	7.8000	7.7600	7.6800	7.9500	7.1700	7.8300	7.9200	8.0200	7.8100
TURB NTU	Avg	0.9400	0.8733	0.8850	0.5550	0.8200	0.6283	0.5120	0.7278	0.4411	0.5385	0.5800	0.4425
	Max	1.5000	2.4000	1.9400	1.0000	1.2000	1.5000	1.1000	1.2000	0.8880	0.9000	1.1000	0.8000
	Min	0.2100	0.1400	0.1200	0.1200	0.4000	0.1000	0.1200	0.3220	0.3000	0.1200	<0.1000	0.1700
NOX mg/L	Avg	0.0383	0.0229	0.0238	0.0180	0.0129	0.0167	0.0340	0.0268	0.0538	0.0540	0.1083	0.0600
	Max	0.0600	0.0500	0.0700	0.0200	0.0300	0.0400	0.0600	0.0800	0.1000	0.0900	0.2000	0.2000
	Min	0.0200	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0100	0.0100	0.0200	0.0400	0.0300	<0.0100
NH4 mg/L	Avg	0.0667	0.0543	0.0663	0.0750	0.0686	0.0980	0.0673	0.0363	0.0400	0.0640	0.0520	0.0725
	Max	0.1700	0.1000	0.1000	0.1600	0.1300	0.1800	0.1200	0.0900	0.0800	0.1200	0.1000	0.1000
	Min	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0400	0.0100	<0.0079	0.0200	0.0100	<0.0100	0.0500
TKN mg/L	Avg	ND	ND	ND	ND	ND	ND	<0.0800	ND	ND	ND	ND	ND
	Max	ND	ND	ND	ND	ND	ND	<0.0800	ND	ND	ND	ND	ND
	Min	ND	ND	ND	ND	ND	ND	<0.0800	ND	ND	ND	ND	ND
OPO4 mg/L	Avg	ND	ND	ND	ND	ND	ND	<0.0020	ND	ND	ND	ND	ND
	Max	ND	ND	ND	ND	ND	ND	<0.0020	ND	ND	ND	ND	ND
	Min	ND	ND	ND	ND	ND	ND	<0.0020	ND	ND	ND	ND	ND
TPO4 mg/L	Avg	0.0023	0.0034	0.0015	<0.0023	<0.0018	0.0018	<0.0016	0.0016	0.0019	0.0035	0.0028	<0.0010
	Max	0.0040	0.0070	0.0040	<0.0030	<0.0030	0.0030	<0.0030	0.0030	0.0040	0.0080	0.0070	<0.0010
	Min	<0.0010	<0.0010	<0.0001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
CHLOR A mg/M3	Avg	ND	ND	ND	ND	ND	ND	0.2600	ND	ND	ND	ND	ND
	Max	ND	ND	ND	ND	ND	ND	0.2600	ND	ND	ND	ND	ND
	Min	ND	ND	ND	ND	ND	ND	0.2600	ND	ND	ND	ND	ND
SAL. psu	Avg	31.3977	32.3306	32.2926	34.6900	36.2813	36.4588	34.3743	35.1858	33.0129	31.0843	28.7693	30.2293
	Max	34.0600	33.4000	36.8000	36.3000	39.2000	40.0000	38.4000	39.0000	37.6000	34.4000	34.8200	33.6000
	Min	28.3000	29.9000	18.3000	32.7000	33.7000	32.3400	28.8000	26.7000	24.6000	26.1000	24.8000	24.3000
TOC mg/L	Avg	ND	ND	ND	ND	ND	ND	3.6500	ND	ND	ND	ND	ND
	Max	ND	ND	ND	ND	ND	ND	3.6500	ND	ND	ND	ND	ND
	Min	ND	ND	ND	ND	ND	ND	3.6500	ND	ND	ND	ND	ND

Table 2.3-31 (Sheet 19 of 22)
Biscayne Bay Water Quality

Sample Location BB44 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (< 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	17.3346	20.8109	20.6300	23.3618	25.9217	28.3233	29.7820	30.5258	28.9600	27.5725	25.5575	21.0550
	Max	23.5400	23.8400	24.4000	26.8100	28.7200	30.7600	31.5500	31.6900	29.6800	30.3500	27.9600	25.7500
	Min	12.5200	15.4600	18.0600	16.0000	16.0000	16.0000	27.9200	29.2300	26.4400	24.9700	21.1900	14.7400
D.O mg/L	Avg	7.4130	5.6875	6.8415	6.3482	5.9183	5.1625	5.2200	4.9142	4.9391	5.8450	5.9608	6.6775
	Max	8.1600	7.7800	7.3200	6.6200	6.2500	6.2100	5.7500	5.3300	5.3100	6.6400	6.9400	8.0700
	Min	6.4400	0.9700	5.8100	5.6400	5.3900	4.4500	4.4500	3.7600	4.0900	4.7500	4.6800	5.7100
PH UNITS	Avg	8.0392	8.0508	8.0962	8.0718	8.1736	7.9825	8.0467	7.8942	7.8891	7.8875	8.0064	8.0045
	Max	8.1700	8.2900	8.2500	8.2500	8.4300	8.1300	8.1300	8.0500	8.1100	7.9700	8.0800	8.2100
	Min	7.8700	7.8500	7.7600	7.8500	7.7900	7.6500	7.7600	7.0400	7.7100	7.7700	7.9500	7.7300
TURB NTU	Avg	1.7000	0.5000	1.8667	0.5167	0.5333	0.6333	ND	0.3000	0.5000	1.0500	0.4000	0.7500
	Max	2.2000	0.5000	2.6000	0.5500	0.8000	1.1000	ND	0.3000	0.5000	1.7000	0.5000	1.2000
	Min	0.7000	0.5000	0.4000	0.5000	0.4000	0.4000	ND	0.3000	0.5000	0.4000	0.3000	0.3000
NOX mg/L	Avg	0.0800	<0.0100	<0.0100	<0.0100	<0.0100	0.0167	ND	0.0100	0.0200	0.0450	<0.0100	<0.0100
	Max	0.0800	<0.0100	<0.0100	<0.0100	<0.0100	0.0300	ND	0.0100	0.0200	0.0800	<0.0100	<0.0100
	Min	0.0800	<0.0100	<0.0100	<0.0100	<0.0100	0.0100	ND	0.0100	0.0200	<0.0100	<0.0100	<0.0100
NH4 mg/L	Avg	0.0667	0.0900	0.0900	0.0833	0.1133	0.0767	ND	0.1100	0.1000	0.0950	0.0500	0.0750
	Max	0.0800	0.0900	0.1100	0.0900	0.1200	0.1000	ND	0.1100	0.1000	0.1000	0.0900	0.0800
	Min	<0.0400	0.0900	0.0500	0.0700	0.1000	0.0300	ND	0.1100	0.1000	0.0900	<0.0100	0.0700
TKN mg/L	Avg	<0.0800	<0.0800	0.2500	<0.0800	<0.0800	<0.0800	ND	<0.0800	<0.0800	0.1350	0.3150	<0.0800
	Max	<0.0800	<0.0800	0.2500	<0.0800	<0.0800	<0.0800	ND	<0.0800	<0.0800	0.1900	0.5500	<0.0800
	Min	<0.0800	<0.0800	0.2500	<0.0800	<0.0800	<0.0800	ND	<0.0800	<0.0800	<0.0800	<0.0800	<0.0800
OPO4 mg/L	Avg	0.0030	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	ND	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Max	0.0030	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	ND	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Min	0.0030	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	ND	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
TPO4 mg/L	Avg	<0.0017	0.0030	0.0023	0.0020	<0.0020	0.0030	ND	0.0020	0.0050	0.0030	0.0035	<0.0020
	Max	<0.0020	0.0030	0.0030	0.0020	<0.0020	0.0030	ND	0.0020	0.0050	0.0040	0.0050	<0.0020
	Min	<0.0010	0.0030	0.0020	0.0020	<0.0020	0.0030	ND	0.0020	0.0050	<0.0020	<0.0020	<0.0020
CHLOR A mg/M3	Avg	0.2400	0.7100	0.4000	0.2300	0.2100	0.4700	ND	0.2600	0.5700	0.8300	0.3250	0.3250
	Max	0.2400	0.7100	0.4000	0.2300	0.2100	0.4700	ND	0.2600	0.5700	1.3800	0.3400	0.3300
	Min	0.2400	0.7100	0.4000	0.2300	0.2100	0.4700	ND	0.2600	0.5700	0.2800	0.3100	0.3200
SAL. psu	Avg	32.6255	34.1675	34.7715	36.3073	36.7258	35.4458	35.4280	36.1200	34.4318	31.8100	32.5908	33.1017
	Max	34.3000	36.3000	37.0000	37.2000	38.2000	38.4000	37.5000	38.6000	36.9000	35.5000	36.1900	35.3000
	Min	30.2000	30.6000	30.7000	35.2000	34.5000	29.6000	31.7000	32.2000	30.5000	27.9500	27.6000	30.1000
TOC mg/L	Avg	3.1000	6.1600	4.1700	3.2000	4.0000	<5.7800	ND	ND	6.8600	5.6450	3.6000	5.7500
	Max	3.1000	6.1600	4.1700	3.2000	4.0000	<5.7800	ND	ND	6.8600	6.1400	3.6000	5.7500
	Min	3.1000	6.1600	4.1700	3.2000	4.0000	<5.7800	ND	ND	6.8600	5.1500	3.6000	5.7500

Table 2.3-31 (Sheet 20 of 22)
Biscayne Bay Water Quality

Sample Location BB44 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (≥ 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	17.5425	20.4371	21.3421	24.4050	26.2569	29.0081	29.7945	30.2337	28.7606	27.5029	24.4007	22.1743
	Max	23.4700	23.8300	26.9800	26.8100	28.7200	30.6700	31.5600	31.8000	29.6800	30.3300	27.9700	25.7600
	Min	12.5300	15.4700	18.1600	22.3500	22.6600	27.5300	27.9500	29.2300	26.4600	25.0900	21.2100	14.8000
D.O mg/L	Avg	7.4367	6.8144	6.8463	6.2814	5.9688	5.4081	5.2844	4.9879	4.9012	5.7179	6.4529	6.4900
	Max	7.9400	7.9700	7.5500	6.7300	6.4700	6.4100	5.8900	5.5800	5.5500	8.5200	7.1000	7.9700
	Min	6.6700	3.0000	5.3400	5.4100	5.4100	4.5400	4.4600	4.2800	4.0800	4.9900	4.7400	5.7200
PH UNITS	Avg	8.0231	8.0269	8.0579	8.0879	8.1614	7.9856	8.0463	7.8853	7.9106	7.8636	8.0167	8.0275
	Max	8.1700	8.3200	8.2600	8.2500	8.4300	8.1300	8.1300	8.0700	8.1000	7.9600	8.0800	8.2000
	Min	7.8700	7.7900	7.7600	7.8500	7.7900	7.6500	7.7700	7.0400	7.7100	7.7700	7.9400	7.7300
TURB NTU	Avg	1.4517	1.3433	0.9488	0.7133	0.6329	0.6200	0.5911	0.6703	0.7657	0.6188	0.4275	0.4750
	Max	2.9000	4.7000	2.1000	1.9000	1.4000	0.9000	1.0000	1.1400	2.4900	0.9050	0.6000	0.9000
	Min	0.4100	0.1600	<0.1000	0.1400	0.1000	0.4000	0.1200	0.3820	0.3200	0.2700	0.1100	<0.1000
NOX mg/L	Avg	0.0217	0.0183	0.0113	0.0120	0.0114	<0.0100	0.0122	0.0120	0.0163	0.0200	0.0400	0.0180
	Max	0.0500	0.0500	0.0200	0.0200	0.0200	<0.0100	0.0200	0.0200	0.0300	0.0400	0.0600	0.0300
	Min	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0300	<0.0100
NH4 mg/L	Avg	0.0557	0.0614	0.0675	0.0660	0.0657	0.0633	0.0590	0.0343	0.0457	0.0625	0.0520	0.0775
	Max	0.1700	0.1200	0.1000	0.1300	0.1300	0.1200	0.1400	0.0700	0.0900	0.0900	0.1000	0.1100
	Min	<0.0100	0.0300	<0.0100	<0.0100	<0.0100	0.0200	0.0100	<0.0100	0.0100	0.0400	<0.0100	0.0300
TKN mg/L	Avg	ND	ND	ND	ND	ND	ND	<0.0800	ND	ND	ND	ND	ND
	Max	ND	ND	ND	ND	ND	ND	<0.0800	ND	ND	ND	ND	ND
	Min	ND	ND	ND	ND	ND	ND	<0.0800	ND	ND	ND	ND	ND
OPO4 mg/L	Avg	ND	ND	ND	ND	ND	ND	<0.0020	ND	ND	ND	ND	ND
	Max	ND	ND	ND	ND	ND	ND	<0.0020	ND	ND	ND	ND	ND
	Min	ND	ND	ND	ND	ND	ND	<0.0020	ND	ND	ND	ND	ND
TPO4 mg/L	Avg	0.0028	0.0020	0.0019	0.0028	0.0024	0.0016	0.0017	0.0030	0.0034	0.0020	0.0016	0.0020
	Max	0.0040	<0.0030	0.0050	0.0040	0.0040	0.0030	<0.0030	0.0090	0.0080	0.0050	0.0040	0.0050
	Min	<0.0010	<0.0010	<0.00001	<0.0010	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
CHLOR A mg/M3	Avg	ND	ND	ND	ND	ND	ND	0.2400	ND	ND	ND	ND	ND
	Max	ND	ND	ND	ND	ND	ND	0.2400	ND	ND	ND	ND	ND
	Min	ND	ND	ND	ND	ND	ND	0.2400	ND	ND	ND	ND	ND
SAL. psu	Avg	32.2594	34.0125	34.7637	36.4679	37.0506	36.1550	35.5385	36.2316	34.6124	32.0393	31.6186	32.5629
	Max	34.3000	35.4000	37.1000	37.4000	38.9000	38.5000	37.5000	38.9000	36.9000	35.7000	36.1600	35.3000
	Min	30.3000	30.9000	26.3100	35.3000	34.6000	33.3000	31.8000	32.2000	30.5000	26.3500	27.7000	30.0000
TOC mg/L	Avg	ND	ND	ND	ND	ND	ND	2.9300	ND	ND	ND	ND	ND
	Max	ND	ND	ND	ND	ND	ND	2.9300	ND	ND	ND	ND	ND
	Min	ND	ND	ND	ND	ND	ND	2.9300	ND	ND	ND	ND	ND

Table 2.3-31 (Sheet 21 of 22)
Biscayne Bay Water Quality

Sample Location BB45 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (< 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	16.8942	20.6809	20.5185	23.3642	25.6800	28.1350	29.7410	30.3125	28.9527	27.4833	25.3875	21.1908
	Max	23.3100	23.6000	24.3400	26.6500	28.1700	30.3600	31.4400	31.5800	30.0100	30.2100	27.5600	25.6200
	Min	11.9500	14.6900	17.6200	16.0000	16.0000	16.0000	27.9100	29.0300	26.2700	24.7400	20.8300	15.2000
D.O mg/L	Avg	7.8925	6.1127[1]	6.9531	6.0275	5.7433	5.0700	5.1067	5.0000	5.0627	5.8500	5.9217	6.7917
	Max	8.9700	8.0600	7.7500	6.5100	7.1700	6.3000	5.6700	6.5600	5.7400	6.3200	7.1300	8.3200
	Min	6.6700	0.1100	5.9700	4.8800	5.1400	3.6500	4.2000	3.6500	3.8700	4.7500	4.7400	5.8800
PH UNITS	Avg	8.0918	8.0718	8.0869	8.0675	8.1536	7.9642	8.0660	7.8825	7.9227	7.8767	8.0082	8.0373
	Max	8.2000	8.3000	8.3100	8.2100	8.5300	8.1800	8.1900	8.1000	8.1000	8.0100	8.1600	8.2500
	Min	7.8900	7.8500	7.7700	7.8000	7.8800	7.6800	7.8700	7.0400	7.7900	7.7400	7.8900	7.7900
TURB NTU	Avg	0.8000	0.4000	0.8333	0.5933	0.6667	0.4333	ND	0.3000	0.3000	0.6000	0.3000	0.3000
	Max	1.2000	0.4000	0.9000	0.7800	1.4000	0.7000	ND	0.3000	0.3000	0.9000	0.3000	0.3000
	Min	0.6000	0.4000	0.7000	0.5000	0.3000	0.3000	ND	0.3000	0.3000	0.3000	0.3000	0.3000
SAL. psu	Avg	29.8709[1]	32.3700	33.7308	34.6692	33.1092	34.9867	34.5060	35.3983	33.0945	31.0908	28.4067	31.1550
	Max	32.5000	34.7000	36.4000	36.5000	38.5000	38.0000	37.3000	38.4000	36.6000	33.5000	34.5700	34.4300
	Min	0.9000	27.9000	29.4000	33.2000	4.5000	32.2000	28.6000	27.3000	27.8000	27.5400	8.6000	27.4000
Sample Location BB45 – Average, Maximum and Minimum Monthly Results for 1993-2010													
Depth (≥ 1 m)													
Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	17.6007	20.1450	21.3311	24.1885	26.1169	28.8638	29.8624	30.1384	28.8353	27.4879	24.3336	22.1871
	Max	23.3100	23.6700	26.8400	26.6500	28.1300	30.4200	31.4500	31.6000	30.0200	30.2300	27.6600	25.7000
	Min	11.9500	14.6900	17.6400	21.7700	22.5100	27.5400	27.9200	29.0100	26.2900	24.7700	20.8400	15.2500
D.O mg/L	Avg	7.8444	6.9056	6.8733	6.0462	5.8863	5.3569	5.1905	4.9089	5.0747	5.7343	6.4150	6.6157
	Max	9.1400	8.2400	7.8300	6.6600	7.0300	6.3600	5.9400	5.8200	5.9000	7.0400	7.6100	7.7300
	Min	6.7800	2.0700	5.5500	4.9000	5.2200	3.9800	4.2900	3.6700	3.7000	4.8500	4.7100	5.8700
PH UNITS	Avg	8.0621	8.0557	8.0667	8.0585	8.1793	7.9956	8.0638	7.8884	7.9359	7.8600	8.0391	8.0458
	Max	8.2100	8.3600	8.3100	8.2200	8.5300	8.1700	8.1700	8.1000	8.0800	8.0000	8.1600	8.2400
	Min	7.8800	7.8500	7.7700	7.8000	7.8800	7.6800	7.8700	7.0300	7.7900	7.7400	7.8900	7.7900
TURB NTU	Avg	0.7620	1.4667	0.9675	0.9000	0.9000	1.3217	0.5900	0.6857	0.4936	0.5000	0.8400	0.5325
	Max	2.0000	5.3000	2.8000	2.4000	1.7000	5.1100	1.6000	1.7000	0.9950	1.1000	2.9000	0.9000
	Min	0.1100	0.1000	0.1000	0.1700	0.2000	0.1200	0.1000	0.2880	0.2100	0.1000	0.1000	0.1300
SAL. psu	Avg	29.7481	32.2150	33.6572	59.6192	36.1713	35.5194	34.7386	35.3326	33.4635	31.8814	29.4079	30.4021
	Max	32.7000	34.8000	36.5000	354.0000	38.6000	38.0000	37.4000	38.4000	36.7000	33.6000	34.6700	34.4300
	Min	27.6000	27.5000	29.4000	33.6000	33.3000	32.4000	29.0000	27.4000	27.8000	27.5600	25.8000	27.7000

Table 2.3-31 (Sheet 22 of 22)
Biscayne Bay Water Quality

Sample Location FC03 – Average, Maximum and Minimum Monthly Results for 1993-2010
Depth (< 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	21.1125	24.0517	23.2250	25.6750	27.0960	27.9967	27.3917	27.4883	26.4000	26.0200	25.4720	21.4400
	Max	21.7400	24.8800	27.0100	26.7100	28.3300	29.1400	28.5000	28.4200	27.2000	27.6400	26.2300	25.3700
	Min	19.8300	22.8100	22.3000	25.1900	24.4900	26.8000	25.3300	26.1200	24.7600	25.3100	24.1500	19.7600
D.O mg/L	Avg	7.2400	6.7317	7.9040	8.6383	7.8233	6.6983	5.2880	4.5450	4.4940	3.5125	5.1300	7.1540
	Max	7.9100	9.0200	8.3100	9.9700	8.6100	7.6700	5.9300	5.5700	6.0000	5.0600	6.0500	7.9800
	Min	6.5700	5.1500	7.7600	7.9500	6.7000	5.7400	4.1900	2.5700	2.1700	2.5500	3.2600	4.9500
PH UNITS	Avg	7.4550	7.2820	7.5333	7.6783	7.6233	7.3467	7.2217	7.3340	7.3350	7.0475	7.3980	7.6960
	Max	7.7000	7.4300	7.7700	7.9100	7.8700	7.4700	7.3100	7.3900	7.4900	7.1200	7.6100	7.8700
	Min	7.2700	7.2400	6.9500	7.4200	7.4900	6.9500	7.0500	7.2400	7.1400	6.9900	6.8900	7.3400
TURB NTU	Avg	ND	0.4000	0.4000	0.5000	0.3000	0.5000	0.4000	0.5000	0.2000	0.5000	0.5000	0.2000
	Max	ND	0.4000	0.4000	0.5000	0.3000	0.5000	0.4000	0.5000	0.2000	0.5000	0.5000	0.2000
	Min	ND	0.4000	0.4000	0.5000	0.3000	0.5000	0.4000	0.5000	0.2000	0.5000	0.5000	0.2000
NOX mg/L	Avg	ND	1.0900	1.0100	1.1900	1.0000	1.0800	0.8900	1.0900	1.1700	0.8400	0.8900	0.9300
	Max	ND	1.0900	1.0100	1.1900	1.0000	1.0800	0.8900	1.0900	1.1700	0.8400	0.8900	0.9300
	Min	ND	1.0900	1.0100	1.1900	1.0000	1.0800	0.8900	1.0900	1.1700	0.8400	0.8900	0.9300
NH4 mg/L	Avg	ND	0.0100	<0.0100	<0.0100	ND	0.0200	0.0200	<0.0100	0.0100	<0.0100	<0.0100	<0.0100
	Max	ND	0.0100	<0.0100	<0.0100	ND	0.0200	0.0200	<0.0100	0.0100	<0.0100	<0.0100	<0.0100
	Min	ND	0.0100	<0.0100	<0.0100	ND	0.0200	0.0200	<0.0100	0.0100	<0.0100	<0.0100	<0.0100
TKN mg/L	Avg	ND	ND	<0.0800	ND	0.1300	ND	0.1900	ND	0.2000	ND	0.3700	ND
	Max	ND	ND	<0.0800	ND	0.1300	ND	0.1900	ND	0.2000	ND	0.3700	ND
	Min	ND	ND	<0.0800	ND	0.1300	ND	0.1900	ND	0.2000	ND	0.3700	ND
OPO4 mg/L	Avg	ND	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Max	ND	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Min	ND	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
TPO4 mg/L	Avg	ND	0.0030	0.0020	<0.0020	0.0020	0.0030	0.0020	0.0020	0.0020	0.0030	0.0030	<0.0020
	Max	ND	0.0030	0.0020	<0.0020	0.0020	0.0030	0.0020	0.0020	0.0020	0.0030	0.0030	<0.0020
	Min	ND	0.0030	0.0020	<0.0020	0.0020	0.0030	0.0020	0.0020	0.0020	0.0030	0.0030	<0.0020
SAL. psu	Avg	0.2925	0.2850	0.2850	0.2683	0.2880	0.2850	0.3233	0.3183	0.3333	0.2700	0.2780	0.2840
	Max	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.5000	0.4000	0.4600	0.3000	0.3000	0.3000
	Min	0.2800	0.2700	0.2700	0.2000	0.2800	0.2700	0.2800	0.2700	0.2800	0.2500	0.2700	0.3000

Sample Location FC03 – Average, Maximum and Minimum Monthly Results for 1993-2010
Depth (≥ 1 m)

Parameters		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMP Deg C	Avg	21.0950	23.4114	23.7257	25.9486	25.9180	27.1986	26.5557	26.8286	25.8443	26.5317	25.3800	23.4133
	Max	21.7300	24.6500	26.9800	26.6900	28.1000	28.7800	28.3800	28.3100	27.1400	27.6700	26.2300	25.4700
	Min	19.8100	22.7700	22.2800	25.1500	24.4800	26.5800	25.3100	26.1100	24.7500	25.2900	24.0100	19.7900
D.O mg/L	Avg	7.1600	7.9286	8.0660	8.9343	7.3586	6.8243	4.7460	3.9414	2.9100	4.3333	4.1033	6.0933
	Max	7.8500	9.1000	8.6300	10.2300	8.1400	7.7800	5.5000	5.9500	6.1200	5.6200	5.9600	7.2900
	Min	6.4900	4.8300	7.7200	7.9300	6.2500	5.6500	4.1700	2.6600	2.0500	2.5400	3.2500	4.9600
PH UNITS	Avg	7.4300	7.3020	7.4333	7.6729	7.6757	7.2114	7.1571	7.2800	7.2400	7.0750	7.1467	7.5067
	Max	7.7100	7.4000	7.7700	7.9500	7.8500	7.5000	7.3400	7.4000	7.4600	7.1000	7.6200	7.8500
	Min	7.2000	7.2300	6.9400	7.4200	7.4800	6.8000	6.9600	7.1600	7.1000	7.0200	6.8800	7.3300
TURB NTU	Avg	0.3750	0.4667	0.7743	1.1667	1.2333	0.8667	0.3667	0.6470	0.4697	1.2767	0.4333	0.5333
	Max	0.4000	0.5000	1.2000	2.0000	2.0000	1.1000	0.4000	1.0000	0.5000	3.2300	0.7000	0.8000
	Min	0.3000	0.4000	0.4900	0.4000	0.6000	0.5000	0.3000	0.4000	0.4090	0.3000	0.3000	0.4000
NOX mg/L	Avg	1.2275	1.3300	1.2833	1.3067	0.8700	1.1600	1.0267	1.0467	0.9367	0.8867	1.1500	0.8800
	Max	1.3500	1.4200	1.4100	1.4500	1.2800	1.1800	1.0600	1.1700	1.2300	1.0100	1.3900	0.8800
	Min	1.0600	1.2200	1.1000	1.1400	0.4000	1.1400	0.9600	0.9700	0.7300	0.6400	1.0300	0.8800
NH4 mg/L	Avg	0.0225	0.0200	0.0167	0.0200	0.0433	0.0167	0.0367	0.0560	0.0633	0.0500	0.0267	0.0167
	Max	0.0300	0.0300	0.0200	0.0400	0.0800	0.0300	0.0500	0.0900	0.1000	0.1100	0.0600	0.0300
	Min	0.0100	<0.0100	0.0100	0.0100	<0.0100	<0.0100	0.0200	<0.0079	0.0300	0.0200	<0.0100	<0.0100
TKN mg/L	Avg	0.2500	ND	0.5000	ND	0.2967	0.2500	0.3667	ND	0.4333	0.2760	0.4000	0.2000
	Max	0.3000	ND	1.2000	ND	0.4000	0.3000	0.5000	ND	0.7000	0.2760	0.4000	0.2000
	Min	0.2000	ND	0.1000	ND	0.1900	0.2000	0.3000	ND	0.3000	0.2760	0.4000	0.2000
OPO4 mg/L	Avg	0.0030	0.0030	0.0030	<0.0020	0.0027	0.0030	0.0030	0.0040	0.0040	0.0027	0.0020	0.0027
	Max	0.0040	0.0040	0.0040	<0.0020	0.0050	0.0040	0.0050	0.0040	0.0050	0.0040	<0.0020	0.0040
	Min	<0.0020	0.0020	0.0020	<0.0020	<0.0010	0.0020	<0.0020	0.0040	0.0030	<0.0020	<0.0020	<0.0020
TPO4 mg/L	Avg	0.0033	0.0040	0.0050	0.0030	0.0037	0.0033	0.0030	0.0020	0.0047	0.0037	0.0033	0.0030
	Max	0.0040	0.0040	0.0070	0.0040	0.0070	0.0050	0.0050	<0.0030	0.0070	0.0050	0.0040	0.0030
	Min	<0.0020	0.0040	0.0040	0.0020	<0.0010	0.0020	0.0010	<0.0010	<0.0030	0.0030	0.0030	0.0030
SAL. psu	Avg	0.2925	0.2957	0.2957	0.2671	0.2960	0.2957	0.3543	0.3814	0.3829	0.2817	0.2850	0.2867
	Max	0.3000	0.3000	0.3000	0.3000	0.3000	0.3000	0.5000	0.5000	0.5100	0.3000	0.3000	0.3000
	Min	0.2800	0.2700	0.2700	0.2000	0.2800	0.2700	0.2800	0.2700	0.2800	0.2500	0.2700	0.2800

[1]Concentrations for certain years appear as outliers with other sample data collected for the month. The outliers were removed to calculate the average concentrations but are still shown as maximums or minimums so that all sample data collected is captured.

Replace Figure 2.3-66 with the following: