

Water-Data Report 2011

02293205 CALOOSAHATCHEE RIVER AT CHANNEL MARKER 52 NR FORT MYERS, FL

Southern Florida Basin
Caloosahatchee Subbasin

LOCATION.--Lat 26°38'29", long 81°52'58" referenced to North American Datum of 1983, Lee County, FL, Hydrologic Unit 03090205, located on Channel Marker #52 of the Caloosahatchee River, 0.6 mi downstream from U.S. 41 Bridge near downtown Fort Myers, 13.5 mi from the mouth.

DRAINAGE AREA.--Indeterminate.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: October 2007 to current year. GAGE HEIGHT: October 2007 to current year.

REVISED RECORDS.--WDR-US-2010 site 02293205: 2008, 2009, gage height daily values and extremes revised to NAVD88 datum and 2008, 2009, discharge record revised based upon revised rating.

GAGE.--Satellite data collection platform with water-stage vented pressure, and acoustic Doppler velocity meter. Datum of gage is North American Vertical Datum of 1988 (NAVD88).

REMARKS.--Records poor. Streamflow at this site is affected by astronomical tides. Daily mean discharge was computed from filtered unit value discharge data. The Godin low-pass filter is used to remove principal tidal frequencies from unit values. Positive discharge (ebb tide) is generally to the west direction, and negative discharge (flood tide) to the east. Discharge and gage height 15 minute data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at <http://sofia.usgs.gov/>. Daily values of discharge and gage height are available online at <http://waterdata.usgs.gov/nwis>.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum positive discharge, (unfiltered), 36,200 ft³/s Aug. 22, 2008 (Tropical Storm Fay); maximum negative, (unfiltered), 49,900 ft³/s Sept. 3, 2009.

GAGE HEIGHT: Maximum recorded, 2.22 ft Sept. 10, 2008; minimum recorded, -3.01 ft Jan. 3, 2008.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, (unfiltered), 31,300 ft³/s Aug. 23; maximum negative, (unfiltered), 38,300 ft³/s Oct. 8.

GAGE HEIGHT: Maximum recorded, 1.70 ft Sept. 6; minimum recorded, -2.52 ft Jan. 13.

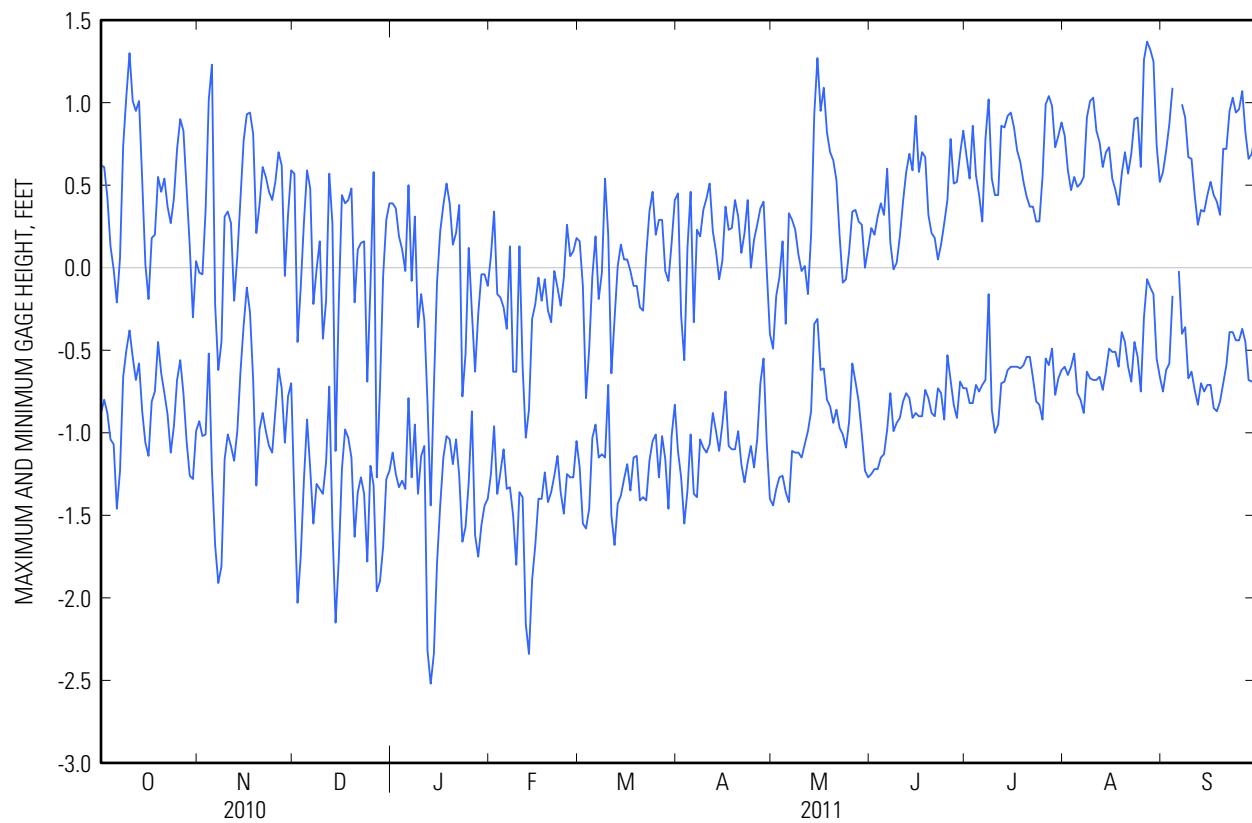
02293205 CALOOSA HATCHEE RIVER AT CHANNEL MARKER 52 NR FORT MYERS, FL—Continued
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	0.62	-0.88	-0.03	-0.93	0.57	-1.40	0.39	-1.12	0.07	-1.25	0.16	-1.21
2	0.61	-0.80	-0.04	-1.02	-0.45	-2.03	0.36	-1.25	0.34	-0.96	-0.11	-1.55
3	0.43	-0.88	0.35	-1.01	-0.12	-1.75	0.19	-1.33	-0.16	-1.37	-0.79	-1.58
4	0.13	-1.04	1.02	-0.52	0.27	-1.29	0.11	-1.29	-0.18	-1.24	-0.49	-1.46
5	-0.01	-1.07	1.23	-1.23	0.59	-0.92	-0.02	-1.34	-0.24	-1.10	-0.05	-1.03
6	-0.21	-1.46	-0.22	-1.68	0.48	-1.22	0.50	-0.79	-0.37	-1.34	0.19	-0.95
7	0.06	-1.23	-0.62	-1.91	-0.22	-1.55	-0.08	-1.27	0.13	-1.33	-0.19	-1.15
8	0.74	-0.66	-0.45	-1.81	-0.01	-1.31	0.31	-0.95	-0.63	-1.50	-0.03	-1.13
9	1.04	-0.50	0.31	-1.16	0.16	-1.34	-0.36	-1.37	-0.63	-1.80	0.54	-1.15
10	1.30	-0.38	0.34	-1.01	-0.43	-1.37	-0.16	-1.14	0.13	-1.36	0.20	-0.71
11	1.01	-0.54	0.27	-1.08	-0.20	-1.18	-0.32	-1.08	-0.60	-1.39	-0.64	-1.50
12	0.95	-0.68	-0.20	-1.17	0.57	-0.72	-0.82	-2.32	-1.03	-2.16	-0.31	-1.68
13	1.01	-0.58	0.07	-0.99	0.27	-1.57	-1.44	-2.52	-0.86	-2.34	0.01	-1.43
14	0.53	-0.87	0.42	-0.63	-1.11	-2.15	-0.73	-2.34	-0.31	-1.89	0.14	-1.38
15	0.02	-1.06	0.77	-0.35	-0.22	-1.77	-0.09	-1.79	-0.22	-1.68	0.05	-1.28
16	-0.19	-1.14	0.93	-0.12	0.44	-1.22	0.22	-1.44	-0.06	-1.40	0.05	-1.19
17	0.18	-0.81	0.94	-0.27	0.39	-0.98	0.38	-1.15	-0.20	-1.40	-0.02	-1.35
18	0.20	-0.75	0.81	-0.68	0.41	-1.03	0.51	-1.02	-0.07	-1.24	-0.11	-1.15
19	0.55	-0.45	0.21	-1.32	0.48	-1.15	0.39	-1.04	-0.26	-1.42	-0.11	-1.14
20	0.46	-0.64	0.38	-0.98	-0.21	-1.63	0.14	-1.19	-0.33	-1.36	-0.24	-1.41
21	0.54	-0.76	0.61	-0.88	0.11	-1.36	0.21	-1.04	-0.02	-1.26	-0.26	-1.39
22	0.37	-0.89	0.55	-0.99	0.15	-1.27	0.38	-1.26	-0.12	-1.14	0.08	-1.41
23	0.27	-1.12	0.46	-1.08	0.16	-1.37	-0.78	-1.66	-0.23	-1.36	0.34	-1.17
24	0.42	-0.96	0.41	-1.12	-0.69	-1.78	-0.52	-1.57	-0.06	-1.49	0.46	-1.05
25	0.72	-0.68	0.52	-0.87	-0.11	-1.20	0.12	-1.30	0.26	-1.25	0.20	-1.01
26	0.90	-0.56	0.70	-0.61	0.58	-1.32	-0.27	-0.87	0.07	-1.27	0.29	-1.27
27	0.83	-0.76	0.62	-0.73	-1.27	-1.96	-0.63	-1.62	0.10	-1.27	0.29	-1.02
28	0.48	-1.05	-0.05	-1.06	-0.73	-1.90	-0.28	-1.75	0.18	-1.05	-0.02	-1.16
29	0.13	-1.26	0.32	-0.78	-0.05	-1.69	-0.04	-1.56	---	---	-0.08	-1.46
30	-0.30	-1.28	0.59	-0.70	0.29	-1.28	-0.04	-1.44	---	---	0.15	-1.02
31	0.04	-0.99	---	---	0.39	-1.23	-0.11	-1.40	---	---	0.41	-0.83
Month	1.30	-1.46	1.23	-1.91	0.59	-2.15	0.51	-2.52	0.34	-2.34	0.54	-1.68

02293205 CALOOSA HATCHEE RIVER AT CHANNEL MARKER 52 NR FORT MYERS, FL—Continued
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	0.45	-1.11	-0.49	-1.44	0.24	-1.25	0.68	-0.73	0.80	-0.60	0.58	-0.75
2	-0.29	-1.27	-0.17	-1.34	0.20	-1.22	0.54	-0.82	0.59	-0.65	0.71	-0.62
3	-0.56	-1.55	-0.06	-1.27	0.31	-1.22	0.86	-0.82	0.47	-0.60	0.87	-0.58
4	0.12	-1.35	0.16	-1.26	0.39	-1.15	0.56	-0.71	0.55	-0.52	1.09	-0.17
5	0.46	-1.01	-0.34	-1.36	0.32	-1.13	0.44	-0.75	0.49	-0.76	---	---
6	-0.33	-1.37	0.33	-1.42	0.60	-0.98	0.28	-0.71	0.51	-0.80	---	-0.02
7	0.23	-1.39	0.29	-1.11	0.15	-0.76	0.78	-0.68	0.55	-0.88	0.99	-0.40
8	0.19	-1.04	0.23	-1.12	-0.01	-0.99	1.02	-0.16	0.91	-0.63	0.91	-0.36
9	0.35	-1.09	0.08	-1.12	0.03	-0.94	0.54	-0.86	1.01	-0.67	0.67	-0.67
10	0.42	-1.12	-0.02	-1.15	0.19	-0.91	0.44	-1.00	1.03	-0.68	0.66	-0.63
11	0.51	-1.07	0.01	-1.07	0.40	-0.81	0.44	-0.95	0.83	-0.68	0.44	-0.74
12	0.22	-0.88	-0.16	-0.99	0.58	-0.76	0.86	-0.70	0.76	-0.66	0.26	-0.83
13	0.10	-0.99	0.20	-0.87	0.69	-0.79	0.85	-0.69	0.61	-0.74	0.35	-0.70
14	-0.07	-1.11	0.93	-0.34	0.59	-0.91	0.92	-0.62	0.70	-0.63	0.34	-0.75
15	0.04	-0.95	1.27	-0.31	0.92	-0.88	0.94	-0.60	0.73	-0.49	0.44	-0.71
16	0.37	-0.75	0.95	-0.62	0.58	-0.90	0.85	-0.60	0.54	-0.51	0.52	-0.71
17	0.23	-1.08	1.09	-0.61	0.70	-0.90	0.71	-0.60	0.47	-0.51	0.44	-0.85
18	0.24	-1.10	0.82	-0.80	0.67	-0.74	0.64	-0.61	0.38	-0.60	0.40	-0.87
19	0.41	-1.10	0.70	-0.84	0.32	-0.79	0.52	-0.59	0.57	-0.39	0.32	-0.81
20	0.31	-0.99	0.65	-0.94	0.21	-0.88	0.43	-0.54	0.70	-0.45	0.72	-0.70
21	0.09	-1.19	0.53	-0.86	0.18	-0.90	0.37	-0.54	0.57	-0.60	0.72	-0.59
22	0.21	-1.30	0.19	-0.97	0.05	-0.73	0.37	-0.67	0.69	-0.69	0.95	-0.39
23	0.41	-1.18	-0.09	-1.01	0.14	-0.76	0.28	-0.81	0.90	-0.45	1.03	-0.39
24	0.00	-1.08	-0.07	-1.09	0.27	-0.92	0.28	-0.83	0.91	-0.54	0.94	-0.44
25	0.17	-1.21	0.10	-0.93	0.41	-0.53	0.55	-0.92	0.61	-0.75	0.96	-0.44
26	0.26	-1.04	0.34	-0.58	0.78	-0.68	0.99	-0.55	1.26	-0.30	1.07	-0.37
27	0.36	-0.70	0.35	-0.69	0.51	-0.83	1.04	-0.59	1.37	-0.07	0.82	-0.45
28	0.40	-0.55	0.28	-0.81	0.52	-0.91	0.98	-0.49	1.32	-0.12	0.66	-0.68
29	-0.01	-1.06	0.26	-1.01	0.69	-0.69	0.73	-0.77	1.25	-0.16	0.69	-0.69
30	-0.40	-1.40	0.00	-1.23	0.83	-0.73	0.80	-0.67	0.74	-0.55	0.80	-0.68
31	---	---	0.12	-1.27	---	---	0.88	-0.62	0.52	-0.66	---	---
Month	0.51	-1.55	1.27	-1.44	0.92	-1.25	1.04	-1.00	1.37	-0.88	---	---

02293205 CALOOSAHATCHEE RIVER AT CHANNEL MARKER 52 NR FORT MYERS, FL—Continued



02293205 CALOOSA HATCHEE RIVER AT CHANNEL MARKER 52 NR FORT MYERS, FL—Continued

DISCHARGE, TIDALLY FILTERED, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

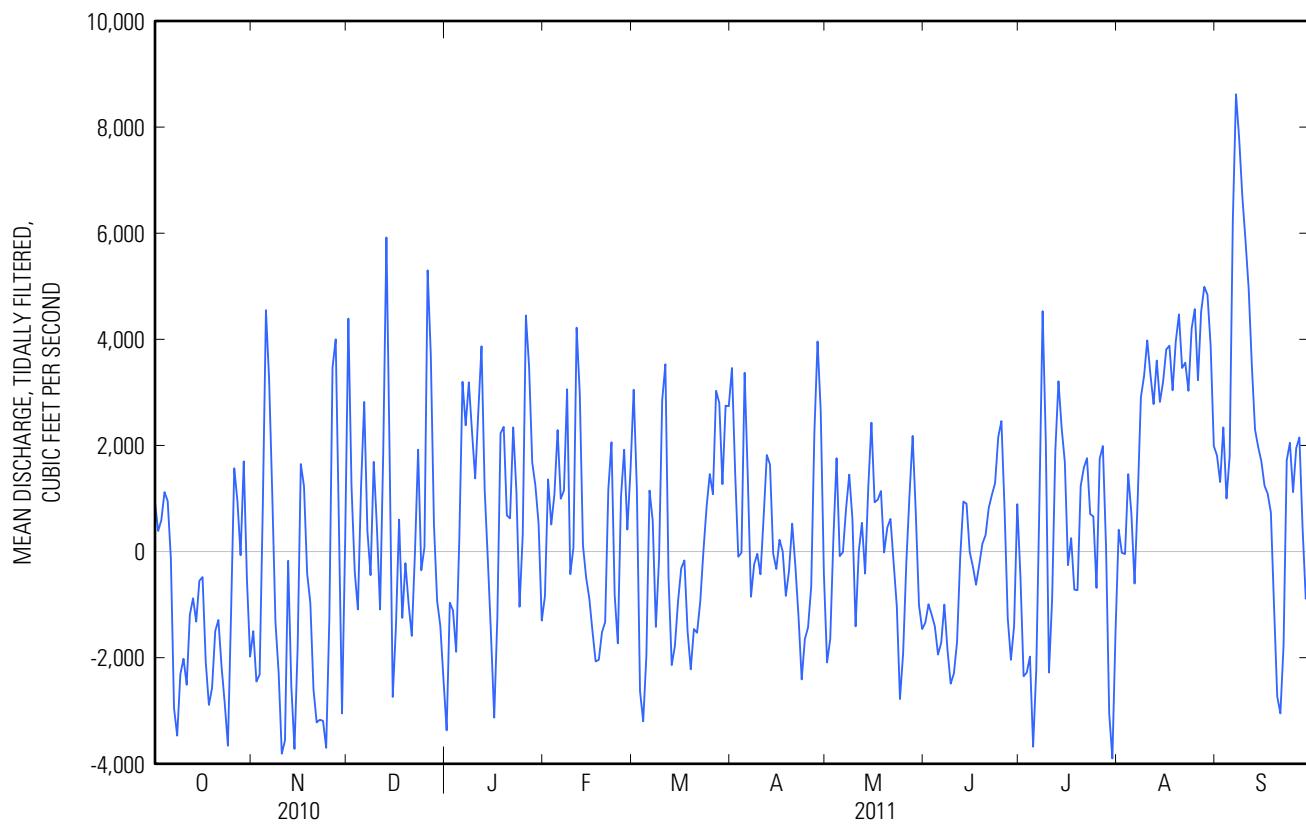
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	926	-1,500	4,390	-3,370	-845	3,050	3,460	-2,090	-1,340	-468	410	1,810
2	388	-2,450	1,210	-964	1,360	1,180	1,500	-1,650	-993	-2,350	-25	1,310
3	593	-2,320	-373	-1,110	510	-2,630	-96	249	-1,190	-2,280	-46	e2,340
4	1,120	828	-1,090	-1,890	1,080	-3,200	-21	1,760	-1,410	-1,980	1,460	e1,000
5	954	4,550	1,220	252	2,290	-1,970	3,370	-86	-1,940	-3,680	716	e1,800
6	-123	3,240	2,820	3,200	996	1,150	1,390	-12	-1,720	-2,220	-603	e6,250
7	-2,950	1,060	391	2,380	1,150	583	-852	813	-1,000	993	1,010	e8,620
8	-3,470	-1,330	-444	3,190	3,060	-1,420	-241	1,450	-1,860	4,530	2,910	7,780
9	-2,310	-2,280	1,690	2,260	-425	-134	-42	614	-2,490	2,080	3,310	6,690
10	-2,020	-3,810	464	1,380	79	2,860	-429	-1,410	-2,300	-2,280	3,980	5,860
11	-2,510	-3,560	-1,090	2,650	4,220	3,530	656	-3.1	-1,710	-888	3,340	4,950
12	-1,190	-175	1,890	3,870	2,970	-502	1,820	541	-108	1,890	2,780	3,500
13	-880	-2,530	5,920	1,160	118	-2,140	1,640	-416	942	3,210	3,600	2,300
14	-1,320	-3,720	1,860	-165	-490	-1,780	-36	1,210	902	2,330	2,820	1,970
15	-551	-1,800	-2,740	-1,580	-881	-933	-328	2,430	-7.0	1,690	3,200	1,700
16	-481	1,650	-1,420	-3,130	-1,500	-315	222	929	-282	-256	3,810	1,240
17	-2,070	1,230	603	-1,230	-2,070	-167	5.6	978	-625	254	3,880	1,090
18	-2,890	-415	-1,250	2,230	-2,040	-1,500	-836	1,140	-251	-718	3,040	735
19	-2,570	-969	-219	2,350	-1,520	-2,220	-362	-17	148	-728	3,960	-1,040
20	-1,500	-2,600	-988	681	-1,330	-1,460	526	451	311	1,230	4,470	-2,730
21	-1,290	-3,220	-1,590	627	1,170	-1,530	-270	615	823	1,580	3,460	-3,050
22	-2,170	-3,170	-26	2,340	2,060	-939	-1,230	-210	1,070	1,760	3,560	-1,770
23	-2,860	-3,190	1,920	1,140	-816	10	-2,410	-1,030	1,290	706	3,030	1,720
24	-3,660	-3,700	-353	-1,040	-1,730	846	-1,650	-2,780	2,160	663	4,200	2,050
25	-1,140	-1,260	82	315	1,030	1,460	-1,430	-1,910	2,460	-685	4,570	1,120
26	1,570	3,470	5,300	4,450	1,920	1,080	-661	-216	785	1,750	3,230	1,950
27	954	4,000	3,710	3,490	414	3,030	2,240	1,060	-1,260	1,990	4,520	2,150
28	-69	555	497	1,680	1,540	2,800	3,960	2,180	-2,040	91	4,990	445
29	1,700	-3,050	-930	1,240	---	1,270	2,650	711	-1,400	-3,050	4,840	-888
30	-520	254	-1,400	526	---	2,750	-421	-1,010	893	-3,900	3,880	-228
31	-1,980	---	-2,410	-1,300	---	2,740	---	-1,460	---	-1,500	1,990	---
Total	-32,319	-26,212	17,644	25,632	12,320	5,499	12,124.6	2,830.9	-12,142.0	-236	90,292	60,674
Mean	-1,043	-874	569	827	440	177	404	91.3	-405	-7.61	2,913	2,022

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2008 - 2011, BY WATER YEAR (WY)

Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Mean	115	-698	371	977	1,116	1,523	1,616	1,780	1,242	2,950	4,999	2,764

02293205 CALOOSAHATCHEE RIVER AT CHANNEL MARKER 52 NR FORT MYERS, FL—Continued**SUMMARY STATISTICS**

	Water Year 2011	Water Years 2008 - 2011		
Annual total	156,107.5			
Annual mean	428		428	
Highest daily mean	8,620	Sep 7	26,000	Aug 23, 2008
Lowest daily mean	-3,900	Jul 30	-6,570	Oct 20, 2009
Annual seven-day minimum	-2,590	Nov 19	-3,220	Jan 4, 2008
10 percent exceeds	3,410		3,410	
50 percent exceeds	311		311	
90 percent exceeds	-2,290		-2,290	



02293205 CALOOSA HATCHEE RIVER AT CHANNEL MARKER 52 NR FORT MYERS, FL—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY (TOP, BOTTOM): October 2007 to September 2010. WATER TEMPERATURE (TOP, BOTTOM): October 2007 to September 2010.

REMARKS.--Salinity and water temperature sensors were located at surface (TOP) and -9.5 ft NAVD88 (BOTTOM). During periods of missing record, values may be higher or lower than the listed extremes. Salinity and water temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at <http://sofia.usgs.gov/>. Daily values of salinity and water temperature are available online at <http://waterdata.usgs.gov/nwis>.

EXTREMES FOR PERIOD OF RECORD.--

SALINITY (TOP): Maximum recorded, 28.6 ppt Feb. 12, May 30, 2008; minimum recorded, 0.0 ppt Aug. 19, 2008.

SALINITY (BOTTOM): Maximum recorded, 30.1 ppt Mar. 15, 2008; minimum recorded, 0.1 PPT several days in 2008.

WATER TEMPERATURE (TOP): Maximum recorded, 34.3 °C Aug. 4, 2009; minimum recorded, 8.6 °C Jan. 11, 12, 2010.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.0 °C July 15, 2009; minimum recorded, 9.2 °C Jan 11, 12, 2010.