

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

June 25-26, 2020

July 2-3, 2020

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MC 150

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INTRODUCTION

The following are water quality reports for the canals and contiguous waters of Padre Isles, Corpus Christi, Texas, which fulfill the monitoring requirements as set forth in a letter from TCEQ (Sidne Tiemann) to the USACE (Mark King) dated October 12, 1994. All temperature measurements are in degrees centigrade. All dissolved oxygen measurements are in milligrams per liter.

METEOROLOGICAL CONDITIONS

6-25-2020. Day. Cloudy. SE - 15 mph. 32.2 C

6-26-2020. Night. SSE - 5 mph. 27.6 C

7-2-2020. Day. Sunny. SE - 15 mph. 32.2 C

7-3-2020. Night. SSE - 5 mph. 27.0 C

Date	Time	Station	Temp. C	D.O. mg/l
6/25/2020	1900	1	31	9.1
	1600	2	30.1	4.6
	1910	3	32.7	9.6
	1730	4	32.4	9
	1610	5	31.2	5.8
	1630	6	30.5	7.7
	1650	7	30.6	5.9
	1745	8	32.4	12.2
	1805	9	31.1	6.8
	1815	10	32.5	10.4
	1825	11	31.8	7.8
	1840	12	30.7	6.4
	1720	13	31.2	7.8
	1715	14	31.4	7.7
	1710	23	32	7.5

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
6/26/2020	645	1	28.5	6.1
	400	2	29.5	1.9
	655	3	29.7	5.1
	525	4	30.6	6.3
	410	5	30.4	4.1
	425	6	29.9	5.7
	445	7	30.3	5.3
	540	8	29	3.5
	600	9	30.1	6.2
	610	10	28.9	5.8
	620	11	28.3	6.5
	635	12	29.7	3.8
	515	13	29.9	5.7
	510	21	30	5.3
	505	23	30.4	5.1

All measurements taken one foot below the surface

NUTRIENTS

Water samples for nutrient analyses were collected one foot below the surface (S) and one foot above the bottom (B) at stations 1,5,6,8,9,10 and 11. Values are reported as milligrams per liter (mg/l or PPM) of the element in the compound. * The lower limit of detection is 0.007 mg/l for nitrate (NO₃-N) and nitrite (NO₂-N) nitrogen, and 0.010 mg/l for phosphate phosphorus (PO₄-P). ND means not detectable.

* Strickland and Parsons (1968). A Practical Handbook of Seawater Analysis. Fisheries Research Board of Canada. Ottawa.

Date	Time	Station	Depth(ft)	NO ₃ -N	NO ₂ -N	PO ₄ -P
6/25/2020	1900	1B	11	0.02	ND	ND
		1S		0.01	0.007	ND
	1610	5B	10	0.014	ND	ND
		5S		0.014	ND	ND
	1630	6B	13	0.015	ND	ND
		6S		0.014	ND	ND
	1745	8B	11	0.012	0.007	ND
		8S		0.012	ND	ND
	1805	9B	12	0.007	ND	ND
		9S		0.007	ND	ND
	1815	10B	13	0.009	0.007	ND
		10S		0.01	0.007	ND
	1825	11B	11	0.008	ND	ND
		11S		0.008	ND	ND

Date	Time	Station	Temp C	D.O.mg/l
7/2/2020	1805	21	31.2	7.9
	1815	23	32.4	7.6
7/3/2020	545	21	29.8	5.4
	555	23	29.9	5.2



