

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

June 10-11, 2021

June 18-19, 2021

ATTN: PETER SCHAEFER, STDS. IMPLEMENTATION TEAM

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

June 10, 2021. Day. Pt. Cloudy. Wind SE- 15 mph. 32.9 C.

June 11, 2021. Night. Wind SE-10 mph. 27.9 C.

June 18, 2021. Day. Pt. cloudy. Wind E- 10 mph. 34.2 C

June 19, 2021. Night. Wind WNW- 5 mph. 29.3 C.

Date	Time	Station	Temp. C	D.O. mg/l
6/10/2021	1925	1	31	8
	1630	2	29.9	4.2
	1935	3	33.2	8.4
	1750	4	31.7	6.8
	1640	5	31.5	7.2
	1655	6	31	7.3
	1715	7	30.6	7.2
	1815	8	32.2	10.8
	1835	9	31.1	7.5
	1845	10	31.9	9.2
	1855	11	31.5	8.4
	1910	12	30.7	5.9
	1745	13	31.3	7.6
	1740	21	31.5	7.6
	1735	23	31.9	7.4

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
6/11/2021	700	1	29.5	5.8
	410	2	29.3	0.8
	710	3	28	3.6
	530	4	29.6	5.4
	420	5	29.8	4.8
	435	6	29.9	5
	455	7	30.2	4.9
	550	8	28.7	3.4
	610	9	29.5	5
	620	10	28.5	4.6
	630	11	28.2	6.3
	645	12	29.8	4.9
	525	13	30	5.6
	520	21	29.9	5.7
	515	23	30.1	5.8

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
6/10/2021	1925	1B	11	0.02	ND	ND
		1S		0.018	0.022	ND
	1640	5B	10	0.022	ND	ND
		5S		0.008	0.01	ND
	1655	6B	13	0.02	ND	ND
		6S		0.007	0.048	ND
	1815	8B	11	0.018	0.007	ND
		8S		0.02	ND	ND
	1835	9B	11	0.01	ND	ND
		9S		0.012	0.025	ND
	1845	10B	13	0.02	ND	ND
		10S		0.023	ND	ND
	1855	11B	11	0.01	0.025	ND
		11S		0.012	0.029	ND

Date	Time	Station	Temp C	D.O.mg/l
6/18/2021	1830	21	32.7	8.7
	1840	23	32.9	8.5
6/19/2021	610	21	30.8	6.1
	620	23	30.9	6.3

