

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

Aug. 7-8, 2021
Aug. 14-15, 2021

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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

Aug. 7, 2021. Day. Sunny. Wind SSE - 20 mph. 34.1 C.

Aug. 8, 2021. Night. Wind S - 5 mph. 28.4 C.

Aug. 14, 2021. Day. Pt. cloudy. Wind ESE - 10 mph. 35.3 C.

Aug. 15, 2021. Night. Wind ESE - 5 mph. 29.2 C.

Date	Time	Station	Temp. C	D.O. mg/l
8/7/2021	1910	1	32	13.3
	1610	2	30.8	4.9
	1920	3	33.5	8.6
	1735	4	31.1	7.8
	1620	5	31.9	6.2
	1635	6	31.7	7.7
	1655	7	31	4.8
	1755	8	32.2	9
	1815	9	30.7	6.6
	1825	10	31.6	7.5
	1835	11	31	7.6
	1850	12	31.3	6.3
	1725	13	31.5	7.2
	1720	21	31.5	7.3
	1715	23	31.3	6.8

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
8/8/2021	630	1	29.4	5.8
	400	2	30.8	4.7
	640	3	28.7	4.7
	515	4	30.7	5.7
	410	5	30.8	3.6
	425	6	30.7	5.4
	440	7	30.8	3.8
	535	8	29.1	4.1
	545	9	30	5.6
	555	10	29.1	4.4
	605	11	29.6	6.1
	615	12	30.1	4.9
	510	13	30.5	5.6
	505	21	30.4	4.9
	500	23	30.4	5.6

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
8/7/2021	1910	1B	11	0.007	0.011	ND
		1S		0.01	ND	ND
	1620	5B	10	ND	ND	0.12
		5S		ND	ND	0.131
	1635	6B	13	ND	ND	ND
		6S		0.007	0.011	ND
	1740	8B	11	ND	ND	ND
		8S		ND	ND	ND
	1815	9B	11	0.008	ND	ND
		9S		0.008	ND	ND
	1825	10B	13	ND	ND	ND
		10S		ND	ND	ND
	1835	11B	11	0.007	0.009	ND
		11S		0.007	0.009	ND

Date	Time	Station	Temp C	D.O.mg/l
8/14/2021	1720	21	32.7	6.9
	1730	23	32.5	6.6
8/15/2021	600	21	31.4	4.7
	610	23	31.1	5

