

# WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

May 2-3, 2022  
May 9-10, 2022

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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

May 2, 2022. Day. Pt. cloudy. Wind SE 25mph. 30.0 C.

May 3, 2022. Night. Wind ESE 18 mph. 26.1 C.

May 9, 2022. Day. Pt. cloudy. Wind SE 25-30 mph. 32.0 C.

May 10, 2022. Night. Wind SE 20 mph. 26.5 C.

Date	Time	Station	Temp. C	D.O. mg/l
5/2/2022	1910	1	29.5	7.7
	1610	2	27.6	4.5
	1920	3	29.1	6.9
	1740	4	28.6	7.1
	1620	5	28.6	5.5
	1640	6	28.3	6.8
	1700	7	28.9	6.7
	1755	8	28.6	7.8
	1815	9	27.7	5.8
	1825	10	28.3	6.6
	1835	11	27.4	7.3
	1850	12	28.3	5.7
	1730	13	28.3	7.1
	1725	21	28.3	7
	1720	23	28.1	7.2

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
5/3/2022	650	1	27.9	4.8
	400	2	27.2	2.7
	700	3	26.8	4.2
	525	4	27.9	6.1
	410	5	28.4	5.1
	425	6	27.5	5.8
	445	7	27.9	5.6
	545	8	27.2	5.1
	600	9	27.4	5.4
	610	10	27.2	4.3
	620	11	27.5	4.9
	635	12	27.1	5.4
	515	13	27.7	5.8
	510	21	27.5	5.2
	505	23	27.7	5.9

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 0.001 mg/l for nitrate (NO<sub>3</sub>-N) and nitrite (NO<sub>2</sub>-N) nitrogen, and 0.016 mg/l for phosphate phosphorus (PO<sub>4</sub>-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 <sub>3</sub> -N	NO <sub>2</sub> -N	PO <sub>4</sub> -P
5/2/2022	1910	1B	12	0.01	0.004	ND
		1S		0.004	0.004	ND
	1620	5B	10	0.007	0.004	ND
		5S		0.003	0.006	0.03
	1640	6B	13	0.003	0.004	ND
		6S		0.002	0.004	ND
	1755	8B	11	0.006	ND	ND
		8S		0.006	ND	ND
	1815	9B	11	0.01	ND	ND
		9S		0.008	ND	ND
	1825	10B	13	0.001	ND	ND
		10S		0.001	ND	ND
	1835	11B	12	0.001	0.004	ND
		11S		0.003	0.004	ND

Date	Time	Station	Temp C	D.O.mg/l
5/9/2022	1730	21	29.1	6.8
	1740	23	28.9	7
5/10/2022	545	21	27.9	5.4
	600	23	27.7	6.1





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