

# WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

Oct. 30-31, 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.  
THIS IS THE FINAL WATER QUALITY REPORT FOR 2022.

## METEOROLOGICAL CONDITIONS

Oct. 30, 2022. Day. Clear. Wind SE 5 mph. 27.8 C.  
Oct. 31, 2022. Night. Wind E 5-10 mph. 21.1 C.

Date	Time	Station	Temp. C	D.O. mg/l
10/30/2022	1755	1	22.9	8.1
	1510	2	23.3	6.3
	1805	3	24.8	12.6
	1635	4	23.4	9.3
	1520	5	23.3	6.3
	1535	6	24.5	8
	1555	7	23.6	7.6
	1650	8	22.8	11.4
	1705	9	22.7	10.2
	1715	10	24	11.5
	1725	11	22.9	9.1
	1740	12	23	7.8
	1625	13	23.6	9.2
	1620	21	23.7	9.2
	1615	23	23.7	9.6

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
10/31/2022	730	1	21.1	6.9
	430	2	22.5	6.2
	740	3	22.7	7.5
	605	4	22.2	7.5
	440	5	22.1	6.5
	500	6	22.5	6.6
	520	7	22.8	6.4
	620	8	21	7.1
	640	9	22.3	8.3
	650	10	22	7.5
	700	11	23	7
	715	12	22.5	7.9
	555	13	22	7.8
	545	21	21.7	7.1
	540	23	22.3	7.5

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
10/30/2022	1755	1B	13	0.006	0.002	ND
		1S		0.004	0.006	ND
	1520	5B	11	0.002	ND	ND
		5S		ND	0.001	ND
	1535	6B	14	0.004	0.003	ND
		6S		0.001	0.005	ND
	1650	8B	12	ND	ND	ND
		8S		ND	ND	ND
	1705	9B	13	ND	0.001	ND
		9S		ND	0.001	ND
	1715	10B	14	ND	ND	ND
		10S		ND	ND	ND
	1725	11B	13	0.004	ND	ND
		11S		0.003	ND	ND

