

# WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

June 28-29, 2022  
July 5-6, 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

June 28, 2022. Day. Sunny. Wind N 15 mph. 31.2 C.

June 29, 2022. Night. Wind NNW 5 mph. 27.2 C.

July 5, 2022. Day. Pt. cloudy. Wind SE 15 mph. 34.3 C.

July 6, 2022. Night. Wind SSE 10 mph. 30.1 C.

Date	Time	Station	Temp. C	D.O. mg/l
6/28/2022	1835	1	31.5	7.6
	1540	2	31.1	6.1
	1845	3	31.3	7.2
	1710	4	31.9	8.7
	1550	5	31.4	5.4
	1605	6	31.1	6.7
	1630	7	30.9	5.8
	1730	8	30.8	7.7
	1745	9	30.4	7.2
	1755	10	30.9	7.9
	1805	11	31.1	7.2
	1820	12	30.3	6.8
	1700	13	31	6.9
	1655	21	31.4	6.8
	1650	23	32	8.3

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
6/29/2022	700	1	29.6	5.6
	410	2	30.1	4.3
	710	3	29.1	5.1
	535	4	30.3	5.1
	420	5	30.1	4.5
	435	6	30.1	5.2
	455	7	30.4	3.8
	555	8	28.2	3.2
	610	9	29.4	5.9
	620	10	28.8	5
	630	11	29.4	5.7
	645	12	29	5.3
	525	13	30	6
	520	21	29.7	5
	515	23	29.9	6.1

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 0.001 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
6/28/2022	1835	1B	12	ND	0.002	ND
		1S		0.001	ND	ND
	1550	5B	10	ND	0.002	ND
		5S		0.008	0.001	ND
	1605	6B	13	ND	ND	ND
		6S		0.005	0.001	ND
	1730	8B	11	ND	0.004	ND
		8S		ND	ND	ND
	1745	9B	11	ND	0.005	ND
		9S		ND	0.003	ND
	1755	10B	13	ND	ND	ND
		10S		ND	ND	ND
	1805	11B	12	ND	ND	ND
		11S		ND	ND	ND

Date	Time	Station	Temp C	D.O.mg/l
7/5/2022	1735	21	32.6	6.6
	1745	23	33.2	8.7
7/6/2022	600	21	29.9	4.8
	610	23	30.1	5.9

