

# WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

May 29-30, 2023

June 5-6, 2023

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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 29, 2023. Day. Pt. Cloudy. Wind SSE 15 mph. 31.2 C.

May 30, 2023. Night. Wind SSE 15 mph. 25.1 C.

June 5, 2023. Day. Cloudy. Wind E 5 mph. 28.3 C.

June 6, 2023. Night. Wind E 5 mph. 27.4 C.

Date	Time	Station	Temp. C	D.O. mg/l
5/29/2023	1855	1	29.9	7.6
	1605	2	28.4	5
	1905	3	29.8	7.3
	1730	4	30.6	9.2
	1615	5	29.1	7.8
	1630	6	29.7	8.5
	1650	7	29.4	6.2
	1745	8	30.1	8.3
	1805	9	28.4	6.7
	1815	10	30.2	9.7
	1825	11	29.6	7.6
	1840	12	30.1	7.5
	1720	13	29.3	7.2
	1715	21	29.2	7.6
	1710	23	29.7	7.4

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
5/30/2023	640	1	27.8	6.2
	400	2	27.8	3.2
	650	3	28.4	5.3
	520	4	28.6	5.6
	410	5	28.3	5.4
	425	6	28.3	5.7
	440	7	28.9	4.5
	535	8	27.2	5.7
	550	9	27.6	5.7
	600	10	27.9	6.1
	610	11	28	6.4
	625	12	28.1	5.1
	510	13	28.4	5.5
	505	21	28	5.8
	500	23	28.5	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
5/29/2023	1855	1B	13	0.004	0.001	ND
		1S		0.001	ND	ND
	1615	5B	11	ND	0.009	0.052
		5S		0.003	0.005	0.052
	1630	6B	14	0.001	0.004	ND
		6S		0.001	ND	ND
	1745	8B	12	0.001	ND	ND
		8S		0.001	ND	ND
	1805	9B	13	0.001	0.004	ND
		9S		0.001	0.003	ND
	1815	10B	14	ND	ND	ND
		10S		ND	ND	ND
	1825	11B	13	ND	ND	ND
		11S		ND	ND	ND

Date	Time	Station	Temp C	D.O.mg/l
6/5/2023	1815	21	27.1	5.6
	1825	23	27.6	6.4
6/6/2023	545	21	26.9	5.4
	600	23	26.4	5.8

