

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

Oct. 28-29, 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

Oct. 28, 2023. Day. Pt. cloudy. Wind SE 15 mph. 31.3 C.

Oct. 29, 2023. Night. Wind ESE 10 mph. 26.7 C.

Date	Time	Station	Temp. C	D.O. mg/l
10/28/2023	1830	1	28	7.4
	1530	2	27.6	5.9
	1840	3	28.4	7.5
	1655	4	28.8	9.3
	1540	5	27.9	5.6
	1555	6	27.8	6.9
	1620	7	27.8	7.2
	1715	8	28.7	9.1
	1735	9	28.4	7.8
	1745	10	29	9.1
	1755	11	27.3	7.4
	1815	12	27.8	5.8
	1645	13	28.2	8.3
	1640	21	28.1	7.4
	1635	23	28.8	8.1

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
10/29/2023	705	1	26.8	5.4
	410	2	27	4
	715	3	26.4	5.2
	535	4	27.3	6.7
	420	5	27.3	3.7
	435	6	27.1	5.8
	455	7	27.2	4.9
	555	8	26.8	5.6
	615	9	27.1	6.2
	625	10	26.5	4.6
	635	11	26.6	5.6
	650	12	27.2	5
	525	13	27.3	5.7
	520	21	27.2	5.3
	515	23	27.3	5.5

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 (NO₃-N) and nitrite (NO₂-N) nitrogen, and 0.016 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
10/28/2023	1830	1B	13	0.006	0.004	ND
		1S		0.007	0.007	ND
	1540	5B	11	0.019	0.01	ND
		5S		0.022	0.008	ND
	1555	6B	14	0.011	0.001	ND
		6S		0.004	0.023	ND
	1715	8B	12	0.005	ND	ND
		8S		0.005	ND	ND
	1735	9B	13	0.034	ND	ND
		9S		0.03	ND	ND
	1745	10B	14	0.008	ND	ND
		10S		0.007	ND	ND
	1755	11B	13	0.004	ND	ND
		11S		0.004	ND	ND

