

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

Oct. 3-4, 2022
Oct. 10-11, 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

Oct .3, 2022. Day. Cloudy. Wind N 10 mph. 27.1 C.

Oct. 4, 2022. Night. Wind WNW 5 mph. 24.2 C.

Oct.10, 2022. Day. Pt. cloudy. Wind E 15 mph. 31.3 C.

Oct.11, 2022. Night. Wind N 5 mph. 27.3 C.

Date	Time	Station	Temp. C	D.O. mg/l
10/3/2022	1910	1	27	7.2
	1620	2	26.5	6.2
	1920	3	27.1	8.9
	1740	4	26.6	7.2
	1630	5	27.5	5.2
	1645	6	27.4	7.3
	1705	7	27.2	6.6
	1800	8	26	9.1
	1815	9	25.9	8.2
	1825	10	27	10.3
	1835	11	26.4	7.8
	1850	12	26.4	6.1
	1730	13	26.3	7.2
	1725	21	26.3	7.4
	1720	23	27	8.7

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
10/4/2022	655	1	25.5	6.2
	400	2	26.3	3.8
	705	3	25.8	6.3
	520	4	25.9	5.8
	410	5	26.7	3.7
	425	6	26.9	6
	445	7	26.7	5.9
	540	8	24.6	4.3
	605	9	25.3	6.3
	615	10	25.5	6.5
	625	11	26.3	6.4
	640	12	25.7	4.9
	515	13	25.9	5.8
	510	21	25.7	6.7
	505	23	26.2	6.3

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
10/3/2022	1910	1B	13	ND	0.003	0.033
		1S		0.005	0.003	0.026
	1630	5B	11	0.006	0.014	0.068
		5S		0.008	0.01	0.085
	1645	6B	14	ND	0.021	ND
		6S		0.004	0.001	ND
	1800	8B	12	0.001	0.001	ND
		8S		0.001	0.001	ND
	1815	9B	13	ND	0.006	ND
		9S		0.001	0.005	ND
	1825	10B	14	ND	0.005	ND
		10S		ND	0.005	ND
	1835	11B	13	0.001	0.001	ND
		11S		0.001	0.001	ND

Date	Time	Station	Temp C	D.O.mg/l
10/10/2022	1745	21	26.6	7.2
	1755	23	27.3	8.6
10/11/2022	630	21	25.1	6.6
	640	23	25.4	6.5

