

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

Sept. 6-7, 2022
Sept. 13-14, 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

Sept. 6, 2022. Day. Cloudy. Wind NE 10 mph. 29.5 C.

Sept. 7, 2022. Night. Wind N 5 mph. 26.1 C.

Sept. 13, 2022. Day. Pt. cloudy. Wind N 10 mph. 32.8 C.

Sept. 14, 2022. Night. Wind E 10 mph. 29.3 C.

Date	Time	Station	Temp. C	D.O. mg/l
9/6/2022	1900	1	28.4	7.2
	1610	2	28.3	3.7
	1910	3	28.9	10.3
	1735	4	28.3	9.2
	1620	5	28.8	2.9
	1635	6	28.6	9.2
	1655	7	28.8	6.7
	1750	8	27.4	7.2
	1810	9	27.6	7.9
	1820	10	27.8	7.4
	1830	11	28	7.7
	1845	12	28.2	5.4
	1725	13	28	7.8
	1720	21	28	7.9
	1715	23	28.2	8

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
9/7/2022	715	1	26.9	5.3
	430	2	27.7	3.1
	730	3	27.3	4.2
	550	4	27.9	5.8
	440	5	28.5	3
	455	6	27.6	7
	515	7	29.2	3.5
	610	8	26.7	4.8
	625	9	27.1	5.1
	635	10	27	5.3
	645	11	28.4	6.1
	700	12	27	6.2
	540	13	27.1	7.1
	535	21	26.7	6.3
	530	23	27.7	7

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
9/6/2022	1900	1B	12	0.008	0.006	0.042
		1S		0.008	0.004	0.02
	1620	5B	10	0.006	0.003	0.1
		5S		0.006	0.01	0.06
	1635	6B	13	0.005	0.007	ND
		6S		0.001	0.003	ND
	1750	8B	11	0.003	0.003	ND
		8S		0.003	0.001	ND
	1810	9B	11	0.007	0.005	ND
		9S		0.007	0.005	ND
	1820	10B	13	0.005	0.001	ND
		10S		0.005	0.001	ND
	1830	11B	12	0.003	0.003	ND
		11S		0.003	0.003	ND

Date	Time	Station	Temp C	D.O.mg/l
9/13/2022	1745	21	31	6.5
	1755	23	31.3	6.7
9/14/2022	640	21	27.5	5.5
	650	23	28.2	6.2

