

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

May 16-17, 2022

May 23-24, 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

May 16, 2022. Day. Sunny. Wind SE 25mph. 28.9 C.

May 17, 2022. Night. Wind SE 5 mph. 25.7 C.

May 23, 2022. Day. Pt. cloudy. Wind E 20 mph. 30.2 C.

May 24, 2022. Night. Wind SSE 10 mph. 24.4 C.

Date	Time	Station	Temp. C	D.O. mg/l
5/16/2022	1850	1	28.7	8.5
	1600	2	28.1	6.3
	1900	3	30.8	8.6
	1730	4	29.4	8.2
	1610	5	29.4	6.6
	1625	6	28.3	7.2
	1640	7	28.7	4.8
	1750	8	29.9	11.2
	1800	9	28	7.3
	1810	10	30.1	11.5
	1820	11	28.9	8.2
	1835	12	27.9	6.3
	1720	13	28.9	7.3
	1715	21	29	7.3
	1710	23	28.9	7.3

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
5/17/2022	650	1	27.5	4.8
	400	2	27.2	3.8
	700	3	26.5	4.1
	525	4	28.2	6.2
	410	5	28.4	5.5
	425	6	27.6	5.3
	445	7	28.1	5.9
	545	8	26.4	4.9
	600	9	27.2	5.1
	610	10	26.2	4.1
	620	11	26.2	6.4
	635	12	26.9	4.8
	515	13	27.7	5.9
	510	21	27.5	4.5
	505	23	27.8	5.8

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
5/16/2022	1850	1B	12	0.002	0.007	ND
		1S		0.002	0.006	ND
	1610	5B	10	0.001	0.005	ND
		5S		0.001	0.006	ND
	1625	6B	13	ND	0.004	ND
		6S		ND	0.006	ND
	1750	8B	11	0.005	ND	ND
		8S		0.006	ND	ND
	1800	9B	11	0.01	0.01	ND
		9S		0.008	0.01	ND
	1810	10B	13	0.012	ND	ND
		10S		0.012	ND	ND
	1820	11B	12	0.007	ND	ND
		11S		0.007	ND	ND

Date	Time	Station	Temp C	D.O.mg/l
5/23/2022	1740	21	28.7	28.6
	1750	23	28.6	5.8
5/24/2022	600	21	27.5	4.5
	610	23	27.8	5.8

