

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

June 24-25, 2021

July 1-2, 2021

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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

June 24, 2021. Day. Pt. Sunny. Wind SE- 20 mph. 33.4 C.

June 25, 2021. Night. Wind SE-15 mph. 28.1 C.

July 1, 2021. Day. Sunny. Wind ESE 10 mph. 33.8 C.

July 2, 2021. Night. Wind N 0-5 mph. 28.4 C.

Date	Time	Station	Temp. C	D.O. mg/l
6/24/2021	1905	1	31.1	7.3
	1615	2	29.6	3.6
	1915	3	31.5	8.9
	1740	4	31.3	6.7
	1625	5	30.2	6.9
	1640	6	30.5	5.6
	1700	7	29.9	3.4
	1755	8	31.7	10.2
	1815	9	30.4	7.7
	1825	10	31.4	9.2
	1835	11	30.9	7.9
	1850	12	30.2	6.3
	1730	13	30.6	8.1
	1725	21	30.6	8.6
	1720	23	30.9	8.1

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
6/25/2021	715	1	29.6	5.2
	430	2	29.2	2.4
	725	3	28.2	4.9
	550	4	29.5	6.1
	440	5	29.8	5.4
	455	6	29.8	3.8
	515	7	29.8	4.5
	610	8	28.8	3.4
	630	9	29.5	5.6
	640	10	28.7	4.5
	650	11	28.9	6.5
	705	12	29.4	3.3
	545	13	29.6	6
	540	21	29.5	5.6
	535	23	29.8	5.9

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 0.007 mg/l for nitrate (NO₃-N) and nitrite (NO₂-N) nitrogen, and 0.010 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
6/24/2021	1905	1B	11	0.015	0.01	ND
		1S		0.017	0.013	ND
	1625	5B	10	0.007	ND	ND
		5S		ND	ND	ND
	1640	6B	13	0.011	0.009	0.09
		6S		0.008	0.01	0.08
	1755	8B	11	0.007	ND	ND
		8S		0.009	ND	ND
	1815	9B	11	0.007	0.011	ND
		9S		0.009	0.011	ND
	1825	10B	13	0.007	0.007	ND
		10S		ND	0.007	ND
	1835	11B	11	0.007	0.012	ND
		11S		0.007	0.01	ND

Date	Time	Station	Temp C	D.O.mg/l
7/1/2021	1800	21	32.5	7.4
	1815	23	32.7	7.1
7/2/2021	615	21	30.3	5.2
	625	23	30.5	5.6

