

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

Oct. 30-31, 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

Oct. 30, 2021. Day. Sunny. Wind ENE - 10 mph. 25.4 C.

Oct. 31, 2021. Night. Wind E - 5 mph. 22.1 C.

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
10/30/2021	1835	1B	11	0.01	0.012	ND
		1S		0.018	0.012	ND
	1540	5B	10	0.018	0.012	ND
		5S		0.007	0.007	ND
	1600	6B	13	0.025	0.01	0.02
		6S		0.037	0.011	0.025
	1730	8B	11	0.009	0.007	ND
		8S		0.009	0.007	ND
	1745	9B	11	ND	0.007	ND
		9S		ND	0.007	ND
	1755	10B	13	ND	0.007	ND
		10S		ND	0.007	ND
	1805	11B	12	0.007	0.008	ND
		11S		0.007	0.008	ND

Date	Time	Station	Temp. C	D.O. mg/l
10/30/2021	1835	1	22.1	8.7
	1530	2	22.9	6.4
	1845	3	24.3	11.1
	1710	4	23.5	8
	1540	5	23.2	6.6
	1600	6	24.4	6.7
	1620	7	23.2	5.4
	1730	8	21.3	9.9
	1745	9	20.7	10
	1755	10	21	11.5
	1805	11	20.9	9.5
	1820	12	22.4	7.3
	1700	13	23.4	8.8
	1650	21	23.1	8.9
	1640	23	23.5	9.7

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
10/31/2021	725	1	22.2	7.9
	430	2	23.5	6.7
	735	3	21.5	9.1
	550	4	23.7	7.7
	440	5	25.8	4.9
	455	6	24.7	5.4
	515	7	24.9	6.5
	615	8	20.7	6.9
	630	9	22.9	8
	640	10	22.1	7.8
	650	11	23.6	7.9
	710	12	23.3	8
	540	13	23.3	7
	535	21	22.8	7.3
	530	23	23.5	7.3

All measurements taken one foot below the surface

Date	Time	Station	Temp C	D.O.mg/l

