

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

May 2-3, 2021

May 8-9, 2021

ATTN: PETER SCHAEFER, STDS. IMPLEMENTATION TEAM

MC 150

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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 2, 2021. Day. Sunny. Wind SE-15 mph. 27.7 C.

May 3, 2021. Night. Wind SE-20 mph. 24.5 C.

May 8, 2021. Day. Sunny. Wind SSE 25-30 mph. 31.0 C

May 9, 2021. Night. Winds SSE 20 mph. 25.2 C.

Date	Time	Station	Temp. C	D.O. mg/l
5/2/2021	1930	1	25.6	7.3
	1620	2	25.5	4.7
	1940	3	26.7	7.8
	1750	4	26.9	8
	1630	5	26.5	6.1
	1645	6	25.5	8.5
	1705	7	25.2	8.9
	1815	8	26.7	11.5
	1835	9	26	8.5
	1845	10	27	10.3
	1855	11	25.2	7.7
	1910	12	24.8	7.7
	1740	13	25.8	8.2
	1735	21	25.5	7.1
	1730	23	25.8	8.2

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
5/3/2021	700	1	25.2	5.1
	410	2	24.6	2.6
	710	3	24.7	6
	535	4	25.4	6.8
	420	5	25	1
	435	6	24.8	7.1
	455	7	25.2	5.4
	555	8	29.9	5.6
	610	9	25	6.4
	620	10	25	6.1
	630	11	24.9	6.3
	645	12	24.5	6.8
	525	13	25.1	7
	520	21	24.8	6.4
	515	23	25.1	6.5

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
5/2/2021	1930	1B	11	0.075	0.01	ND
		1S		0.068	0.015	0.09
	1630	5B	10	0.083	0.02	0.195
		5S		0.227	0.025	0.211
	1645	6B	13	0.285	ND	ND
		6S		0.065	ND	ND
	1815	8B	11	0.019	ND	ND
		8S		0.014	ND	ND
	1835	9B	12	0.019	0.007	ND
		9S		0.019	0.007	ND
	1845	10B	13	0.02	ND	ND
		10S		0.018	0.007	ND
	1855	11B	11	0.082	0.009	ND
		11S		0.08	0.009	ND

Date	Time	Station	Temp C	D.O.mg/l
5/8/2021	1730	21	28	6.1
	1745	23	27.8	6.5
5/9/2021	630	21	26.5	5.9
	645	23	26.7	6.1

