WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

July 12-13, 2022 July 19-20, 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

July 12, 2022. Day. Sunny. Wind SE 15 mph. 35.0 C.

July 13, 2022. Night. Wind S 5 mph. 28.1 C.

July 19, 2022. Day. Sunny. Wind SSE 25 mph. 33.5 C.

July 20, 2022. Night. Wind SSE 10 mph. 28.4 C.

Date	Time	Station	Temp. C	D.O. mg/l
7/12/2022	1855	1	32.3	7.3
	1605	2	31.4	4.8
	1905	3	33.1	7.8
	1735	4	32.8	7.7
	1615	5	32.2	6.9
	1630	6	31.4	6.1
	1650	7	33.1	6.1
	1750	8	32.8	8.7
	1805	9	31.5	7.3
	1815	10	32.7	8.8
	1825	11	31.9	7.4
	1840	12	31.4	5.8
N N II	1725	13	31.8	7.2
	1720	21	31.6	7.2
	1715	23	32	7.4

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
7/13/2022	635	1	30.1	5.6
	350	2	30.3	3.2
L	645	3	30	3.6
	515	4	31.2	5.7
	400	5	31.1	4.2
	415	6	30.5	5.1
	435	7	31	4.1
	530	8	29.3	2.8
	545	9	30.2	4.7
	555	10	30	5.1
	605	11	29.3	6.2
	620	12	30.3	4.4
	505	13	30.7	5.3
	500	21	30.6	5.1
	455	23	30.8	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 abovethe 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.

ate	Time	Station	Depth(ft)	NO:	3-N	NO ₂	-N	PO ₄ -P
7/12/2022	1855	1B		12 ND			0.002	ND
		1S			0.003	ND		ND
	1615	5B		10	0.003	ND		ND
		5S			0.002	ND		ND
	1630	6B		13 ND		ND		ND
		6S			0.001		0.001	ND
	1750	8B		11	0.001		0.001	ND
		8S			0.001	ND		ND
	1805	9B		11	0.002		0.001	ND
		9\$			0.001	ND		ND
	1815	10B		13	0.003	ND		ND
		10S			0.002	ND		ND
	1825	11B		12 ND		ND		ND
		11S		ND		ND		ND

Date	Time	Station	Temp C	D.O.mg/l
7/19/2022	1745	21	31.6	6.4
	1755	23	32	6.7
7/20/2022	550	21	31.2	4.3
	600	23	30.5	4.8

