

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

Oct. 1-2, 2020

Oct. 8-9, 2020

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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

10-1-2020. Day. Clear. N - 5 mph. 29.1 C
10-2-2020. Night. N - 5-10 mph. 23.2 C
10-8-2020. Day. Cloudy. NE -15 mph. 31.3 C
10-9-2020. Night. NW - 15 mph. 26.1 C

Date	Time	Station	Temp. C	D.O. mg/l
10/1/2020	1805	1	25.6	8.4
	1510	2	26.1	7.1
	1815	3	27.6	9.7
	1635	4	25.8	9.1
	1520	5	26.3	7.6
	1535	6	26.2	8.1
	1555	7	27.3	8.5
	1650	8	26	13.3
	1715	9	25.7	9.4
	1725	10	27.1	10.6
	1735	11	25.4	8.9
	1750	12	25.4	7.6
	1625	13	26.7	8.8
	1620	21	26.4	10.2
	1615	23	27.4	9.2

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
10/2/2020	735	1	23.7	6.3
	445	2	24.3	6.1
	745	3	24.2	5
	610	4	24.7	6.4
	455	5	25.7	6.5
	510	6	25.8	6.5
	530	7	26.1	6.6
	630	8	23.9	6.7
	645	9	24.5	7.3
	655	10	24.6	7.7
	705	11	24.7	7.3
	720	12	24.3	6.5
	600	13	25	7.2
	555	21	25.1	6.9
	550	23	25.5	7.1

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
10/1/2020	1805	1B	11	0.012	0.007	ND
		1S		0.012	0.011	ND
	1520	5B	10	0.016	ND	ND
		5S		0.014	ND	ND
	1535	6B	13	0.011	0.011	ND
		6S		0.007	0.014	ND
	1650	8B	11	0.007	0.01	ND
		8S		0.008	0.01	ND
	1715	9B	12	0.023	0.007	ND
		9S		0.025	0.008	ND
	1725	10B	13	0.008	0.011	ND
		10S		0.008	0.01	ND
	1735	11B	11	0.007	0.012	ND
		11S		0.007	0.012	ND

Date	Time	Station	Temp C	D.O.mg/l
10/8/2020	1730	21	27.2	6.7
	1740	23	27.8	6.9
10/9/2020	615	21	26.7	5.1
	625	23	26.9	5.5



