

WATER QUALITY DATA

PADRE ISLES AND CONTIGUOUS WATERS

August 20-21, 2020

August 27-28, 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

8-20-2020. Day. Pt. cloudy. SE - 10 mph. 35.4 C
8-21-2020. Night. SE - 5 mph. 29.1 C
8-27-2020. Day. Pt. cloudy. ESE 10 mph. 35.3 C
8-28-2020. Night. S 10 mph. 31.4 C

Date	Time	Station	Temp. C	D.O. mg/l
8/20/2020	1855	1	32	7.8
	1610	2	31	4.2
	1905	3	31.8	8.5
	1735	4	32.7	9.8
	1620	5	32.7	7
	1635	6	31.9	7.6
	1655	7	33.4	6.3
	1750	8	33.1	11.3
	1805	9	31.3	7.2
	1815	10	33.1	10
	1825	11	30.2	7
	1840	12	31.2	5.6
	1725	13	32.3	7.7
	1720	21	32.1	9.3
	1715	23	32.5	8.2

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
8/21/2020	705	1	29.5	3.9
	415	2	30.3	2.1
	715	3	28.6	3.8
	540	4	31.2	5.7
	425	5	31.4	4.4
	440	6	30.8	3.5
	500	7	31.1	4.2
	600	8	29.5	2.4
	615	9	30.3	4.5
	625	10	29.2	3.3
	635	11	29.4	5.4
	650	12	30.4	4.1
	530	13	30.8	5.1
	520	21	31	5.4
	525	23	30.6	5.3

All measurements taken one foot below the surface

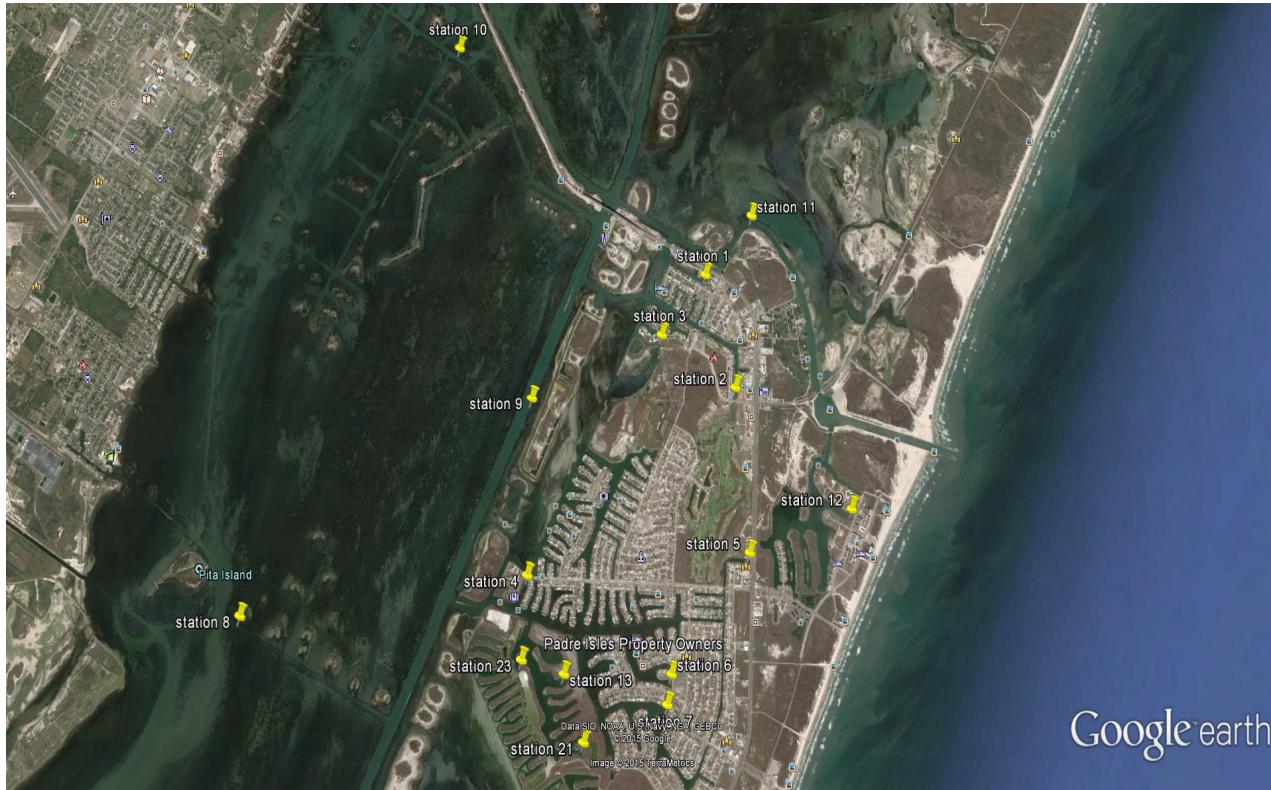
NUTRIENTS

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
8/20/2020	1855	1B	10	0.019	ND	ND
		1S		0.014	ND	ND
1620	5B		9	0.03	0.008	ND
		5S		0.025	ND	ND
1635	6B		12	0.018	ND	ND
		6S		0.014	0.007	ND
1750	8B		9	0.012	0.009	ND
		8S		0.014	0.01	ND
1805	9B		11	0.02	0.007	ND
		9S		0.018	0.007	ND
1815	10B		12	0.03	0.012	ND
		10S		0.03	0.011	ND
1825	11B		10	0.013	0.007	ND
		11S		0.015	0.007	ND

Date	Time	Station	Temp C	D.O.mg/l
8/27/2020	1620	21	32.4	7.1
	1635	23	32.7	6.6
8/28/2020	630	21	31.3	4
	640	23	31	4.1



Google earth

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