

WATER QUALITY DATA

PADRE ISLES AND CONTIGUOUS WATERS

July 23-24, 2020

July 30-31, 2020

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

7-23-2020. Day. Pt. cloudy. E - 15 mph. 35.3 C
7-24-2020. Night. NW - 10 mph. 28.9 C
7-30-2020. Day. Pt. cloudy. SE 15 mph. 35.2 C
7-31-2020. Night. SSE 10 mph. 31.3 C

Date	Time	Station	Temp. C	D.O. mg/l
7/23/2020	1835	1	32.6	7.3
	1545	2	33.4	7.9
	1845	3	32.5	8.1
	1710	4	33.6	7.9
	1555	5	32.8	6.1
	1610	6	32.9	7.3
	1630	7	32.7	6
	1725	8	33.9	10.7
	1745	9	32.1	7.7
	1755	10	32.8	7.9
	1805	11	32.7	7.8
	1820	12	31.7	7.5
	1700	13	33.6	8.3
	1655	21	33.7	7.7
	1650	23	34.2	8.5

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
7/24/2020	650	1	31.2	4.1
	400	2	31.5	4.1
	700	3	31	4.8
	520	4	31.9	5.7
	410	5	32	5.2
	425	6	31.9	5.7
	440	7	32	5.7
	540	8	30.6	3.2
	600	9	31	5.5
	610	10	30.8	4.6
	620	11	30.9	4.9
	635	12	31	4.2
	510	13	31.7	6
	505	21	31.3	5.6
	500	23	31.5	5.6

All measurements taken one foot below the surface

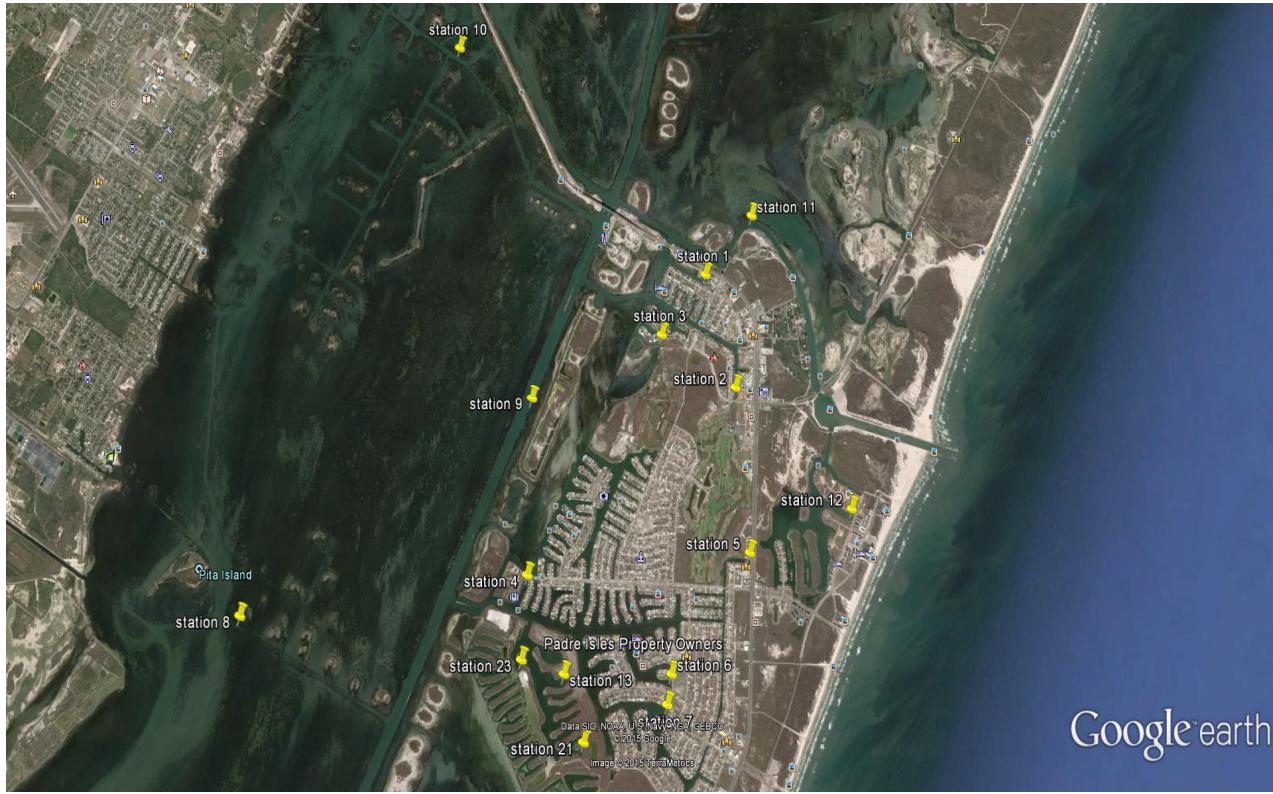
NUTRIENTS

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
7/23/2020	1835	1B	10	0.017	0.007	ND
		1S		0.016	0.007	ND
	1555	5B	9	0.027	0.01	ND
		5S		0.021	0.01	ND
	1610	6B	12	0.025	0.008	ND
		6S		0.021	0.007	ND
	1725	8B	9	0.025	0.007	ND
		8S		0.024	0.007	ND
	1745	9B	11	0.014	0.007	ND
		9S		0.014	0.007	ND
	1755	10B	12	0.026	0.008	ND
		10S		0.024	0.007	ND
	1805	11B	10	0.025	0.007	ND
		11S		0.025	0.007	ND

Date	Time	Station	Temp C	D.O.mg/l
7/30/2020	1720	21	33.9	7.4
	1730	23	34.3	8.3
7/31/2020	530	21	30.1	5.3
	540	23	30.3	5.4



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