

WATER QUALITY DATA

PADRE ISLES AND CONTIGUOUS WATERS

July 9-10, 2020

July 16-17, 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

7-9-2020. Day. Sunny. SSE - 25-30 mph. 33.3 C
7-10-2020. Night. SSE - 5 mph. 27.9 C
7-16-2020. Day. Pt. cloudy. SE 20 mph. 33.7 C
7-17-2020. Night. SE 10 mph. 28.3 C

Date	Time	Station	Temp. C	D.O. mg/l
7/9/2020	1815	1	32.3	8.4
	1530	2	31.2	6.7
	1825	3	31.2	8.6
	1650	4	32.5	9
	1540	5	32.2	6.9
	1555	6	31.3	6.5
	1615	7	32.3	7
	1710	8	32.7	9.7
	1725	9	31.4	6.8
	1735	10	33.1	8.6
	1745	11	29.4	7.6
	1800	12	31.5	7.3
	1640	13	31.9	6.6
	1635	21	32.3	7.2
	1630	23	32	6.9

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
7/10/2020	640	1	30.8	3.4
	350	2	30.3	3.5
	650	3	28.4	3
	510	4	31	5.1
	400	5	31.2	3.6
	415	6	30.7	3.4
	435	7	31.3	4.9
	530	8	29.2	2.5
	550	9	29.9	4.7
	600	10	29.1	3
	610	11	29.5	4.9
	625	12	30.3	5.4
	505	13	30.7	4.7
	500	21	30.8	4.3
	455	23	30.7	4.8

All measurements taken one foot below the surface

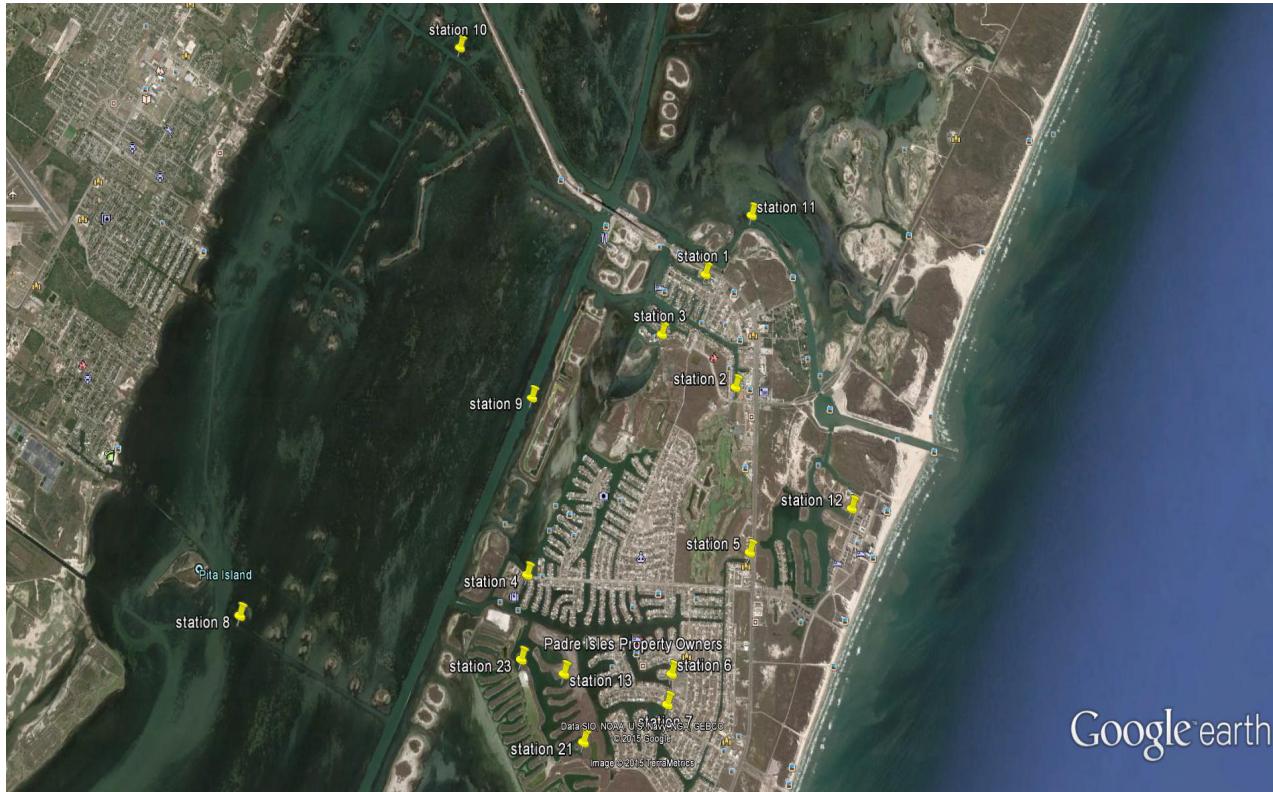
NUTRIENTS

Water samples for nutrient analyses were collected one foot below the surface (S) and one foot 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 ($\text{NO}_3\text{-N}$) and nitrite ($\text{NO}_2\text{-N}$) nitrogen, and 0.010 mg/l for phosphate phosphorus ($\text{PO}_4\text{-P}$). 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)	$\text{NO}_3\text{-N}$	$\text{NO}_2\text{-N}$	$\text{PO}_4\text{-P}$
7/9/2020	1815	1B	10	0.018	ND	ND
		1S		0.022	0.007	ND
	1540	5B	9	0.025	ND	ND
		5S		0.025	ND	ND
	1555	6B	12	0.021	0.007	ND
		6S		0.025	0.007	ND
	1710	8B	9	0.02	0.01	ND
		8S		0.02	0.009	ND
	1725	9B	11	0.038	0.01	ND
		9S		0.03	0.01	ND
	1735	10B	12	0.02	0.01	ND
		10S		0.023	0.007	ND
	1745	11B	10	0.018	0.007	ND
		11S		0.018	0.007	ND

Date	Time	Station	Temp C	D.O.mg/l
7/16/2020	1720	21	33.2	8.2
	1730	23	33	8
7/17/2020	540	21	31.5	4.1
	550	23	31.4	4.8



Google earth

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