

# WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

Aug. 9-10, 2022

Aug. 16-17, 2022

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

Aug. 9, 2022. Day. Pt. cloudy. Wind SE 15-20 mph. 32.4 C.

Aug. 10, 2022. Night. Wind SE 5 mph. 27.9 C.

Aug. 16, 2022. Day. Sunny. Wind SE 10 mph. 34.2 C.

Aug. 17, 2022. Night. Wind S 5 mph. 30.2 C.

Date	Time	Station	Temp. C	D.O. mg/l
8/9/2022	1845	1	31.8	8
	1600	2	31.5	5.8
	1855	3	32.2	7.8
	1725	4	32.7	8.2
	1610	5	31.4	5.9
	1625	6	31.7	7.9
	1645	7	31.4	7.1
	1740	8	32.6	8.7
	1755	9	31.3	8.1
	1805	10	32	8.7
	1815	11	32.2	8.6
	1830	12	31	6.6
	1715	13	32.3	7.5
	1710	21	31.6	7.2
	1705	23	32.7	8.9

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
8/10/2022	635	1	30.1	5.5
	350	2	29.7	4.1
	645	3	30	5.8
	515	4	30	5.9
	400	5	30.3	4.5
	415	6	30.2	5.4
	435	7	30.3	4.7
	535	8	29.4	3.1
	545	9	30	5.6
	555	10	30	5.8
	605	11	29.9	6.2
	620	12	30.2	6.2
	505	13	30.5	5.4
	500	21	30	4.9
	455	23	30.6	5.8

All measurements taken one foot below the surface

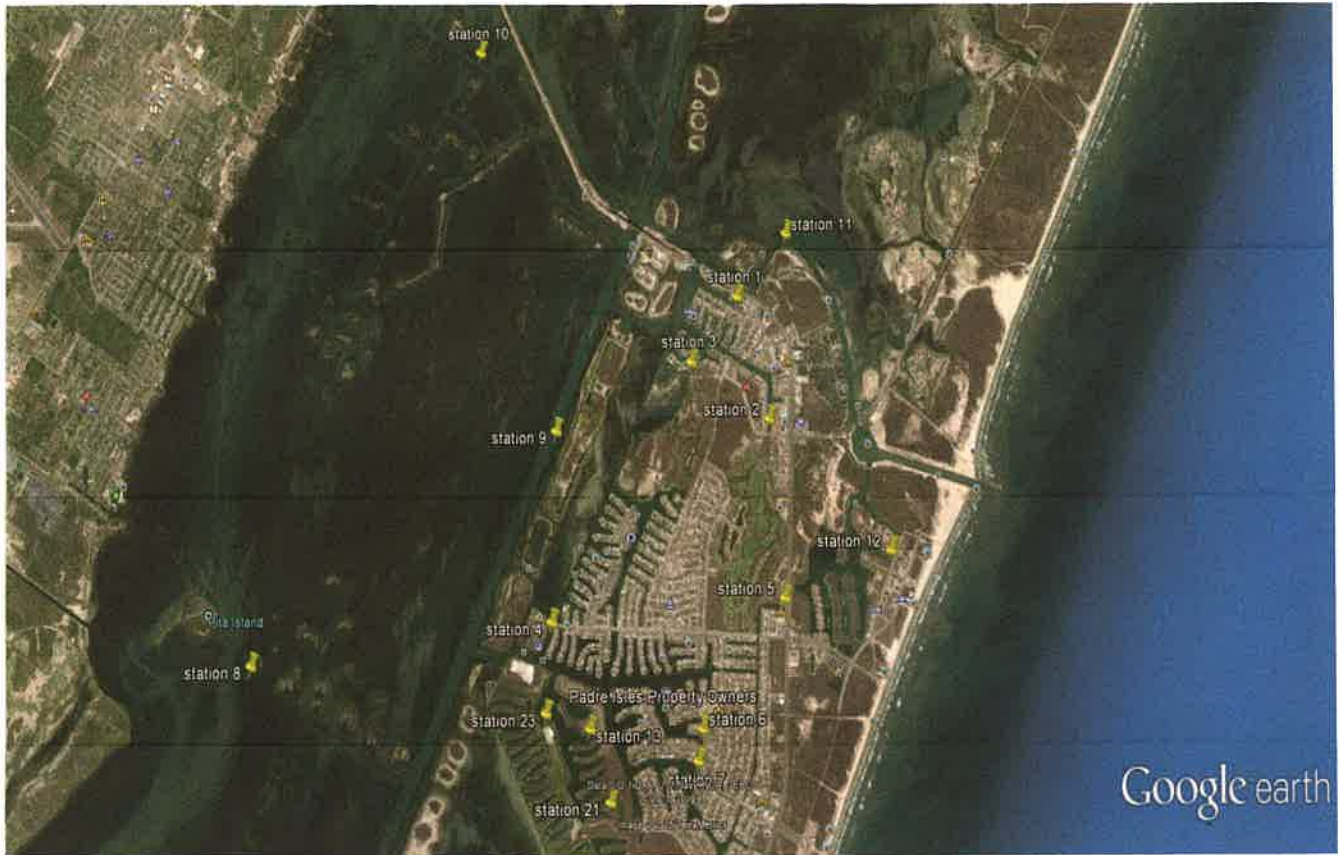
## NUTRIENTS

Water samples for nutrient analyses were collected one foot below the surface (S) and one foot 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 0.001 mg/l for nitrate (NO<sub>3</sub>-N) and nitrite (NO<sub>2</sub>-N) nitrogen, and 0.016 mg/l for phosphate phosphorus (PO<sub>4</sub>-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 <sub>3</sub> -N	NO <sub>2</sub> -N	PO <sub>4</sub> -P
8/9/2022	1845	1B	12	0.002	0.003	ND
		1S		ND	0.003	ND
	1610	5B	10	0.002	0.001	ND
		5S		ND	0.005	ND
	1625	6B	13	0.001	0.001	ND
		6S		0.001	0.007	ND
	1740	8B	11	ND	0.007	ND
		8S		ND	0.005	ND
	1755	9B	11	ND	0.004	ND
		9S		ND	0.004	ND
	1805	10B	13	ND	0.006	ND
		10S		0.001	0.005	ND
	1815	11B	12	ND	0.004	ND
		11S		ND	0.004	ND

Date	Time	Station	Temp C	D.O.mg/l
8/16/2022	1810	21	30.1	7.5
	1820	23	31	8.9
8/17/2022	630	21	28.8	5
	640	23	29.1	6



Google earth