Report 245

Chemical and Physical Characteristics of Water in Estuaries of Texas October 1974-September 1975

TEXAS DEPARTMENT OF WATER RESOURCES

April 1980

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REPORT 245

CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS OCTOBER 1974-SEPTEMBER 1975

By

William B. Lind
U.S. Geological Survey

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TABLE OF CONTENTS

TABLE OF CONTENTS—Continued

Page

TABLES

TABLE OF CONTENTS—Continued

TABLE OF CONTENTS—CONTINUED

FIGURES

TABLE OF CONTENTS—Continued

CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS OCTOBER 1974-SEPTEMBER 1975

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INTRODUCTION

Purpose and Scope of the Investigation

The Texas Water Plan (Texas Water Development Board, 1968) proposes development and utilization of water resources in Texas and includes provisions for the use and preservation of water in the estuaries of the State. Management of estuarine waters requires knowledge of the hydrodynamics and of the continuing changes in chemical and physical characteristics of water in the estuaries.

In September 1967, the U.S. Geological Survey and the Texas Water Development Board (now Texas Department of Water Resources) began a cooperative water-resources investigation of the principal estuaries along the Texas Coast (figure 1) except Galveston Bay, which was being studied by other agencies at that time, and the Rio Grande estuary, which is under the jurisdiction of the International Boundary and Water Commission, United States and Mexico.

The objectives of the investigation are to define: (1) The occurrence, source, and distribution of nutrients; (2) the physical, organic, and inorganic water-quality constituents and their areal distribution and time variations; (3) the chemical and physical characteristics of gulf water that enters the estuaries; (4) the occurrence, quality, quantity, and dispersion of drainage entering the estuarine systems; and (5) the current patterns, directions, and rates of water movement.

The coastal waters of Texas are not classical estuaries, but are similar to them in ecosystems and mixing phenomena. A description of various types of estuaries is presented in "Estuaries," edited by Lauff (1967, p. 3-11). The term estuary, as used in this report, refers to concomitant water bodies in which streamflow mixes with seawater.

Status of the Project

The first three objectives of the project are being met by a three-phased water-quality data-collection program of: (1) Reconnaissance for establishment of an optimum data-collection network; (2) repetitive surveys throughout this network to determine the general chemical and physical characteristics of the estuarine systems; and (3) continued data collection at a reduced number of sites or at a reduced frequency to maintain definition of the chemical and physical characteristics of each estuarine system and of the relationship between systems. The first two phases have been completed and the third phase began in September 1973.

The fourth objective of the project is being met by data collection at six continuous streamflow-measuring stations and 11 stations at which monthly data on streamflow and water quality are obtained. The dispersion of water entering an estuary is being documented under data-collection activities to meet the first three objectives.

The fifth objective of the project is being met by short-duration intensive studies of inflow. Two such

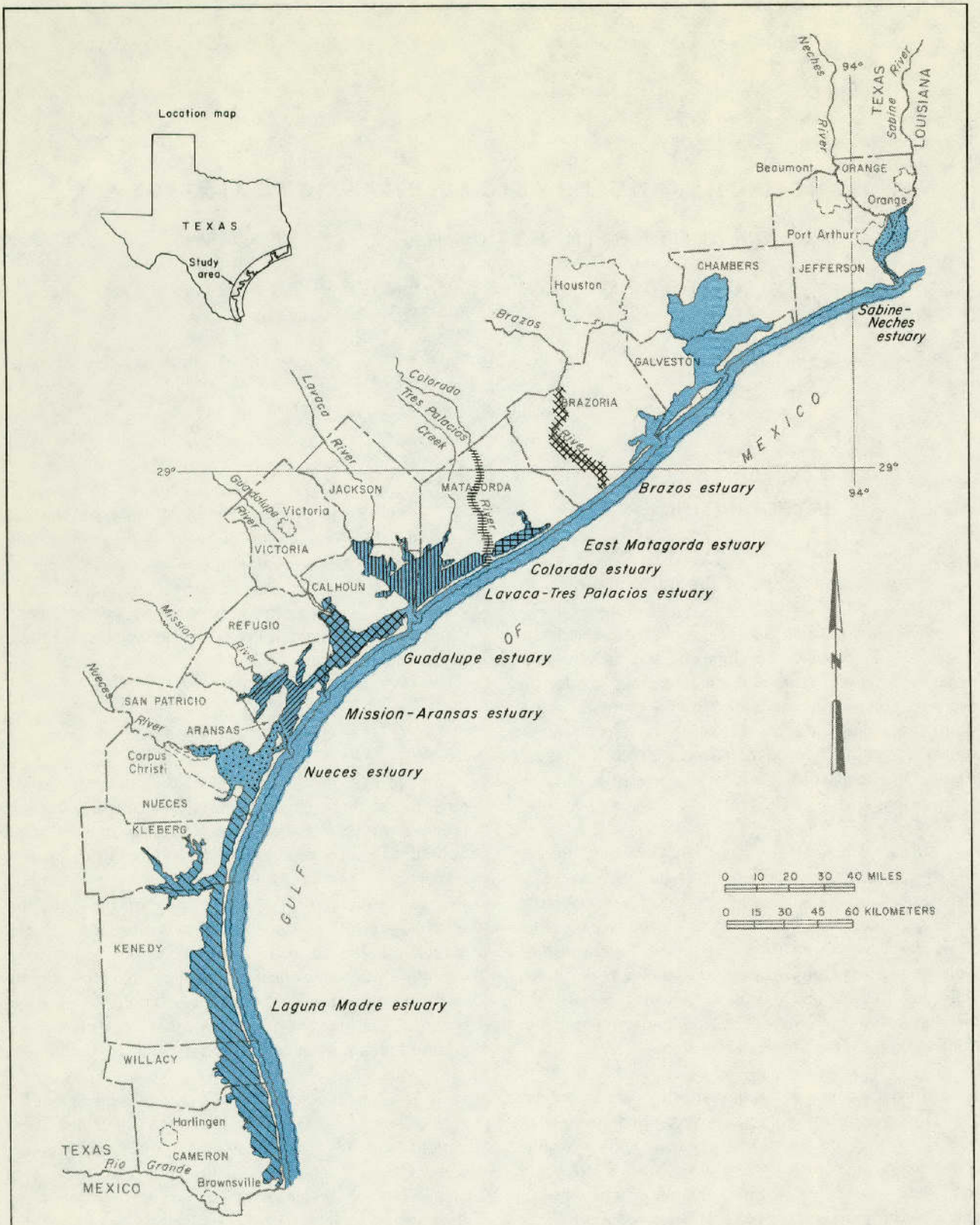

Figure 1

Locations of the Estuaries

Base from Official State Highway Map of Texas, 1971

studies will be completed for each estuary. The studies on the Guadalupe estuary were completed in November 1970 and August 1973; the studies on the Lavaca-Tres Palacios estuary were completed in March 1971 and October 1972; the studies on the Mission-Aransas and Nueces estuaries were completed in November 1971 and May-June 1974; and the studies on the Sabine-Neches estuary were completed in September 1974 and July 1975. These studies are providing data on inflow and exchange of water through the passes.

Previous and Related Reports

This report, which is the seventh in an annual series of basic-data reports (Hahl and Ratzlaff, 1970, 1972, 1973, 1975; Ratzlaff, 1976; Lind and Ratzlaff, 1979), presents data collected during water year 1975. A report by Grozier and others (1968, p. 47-61) includes data collected during flooding caused by Hurricane Beulah. An interpretive report is being prepared to describe the characteristics of the Guadalupe estuary.

Metric Conversions

Metric equivalents of English units of measurement are given in parentheses in the text. The English units used in this report may be converted to metric units by the following conversion factors:

From			To obtain	
Unit	Abbreviation	Multiply by	Unit	Abbreviation
inch	—	2.54	centimeter	cm
foot	—	.3048	meter	m
mile	—	1.609	kilometer	km
square mile	—	2.590	square kilometer	km^2
cubic foot per second	ft^3/s	.02832	cubic meter per second	m^3/s

Acknowledgments

The U.S. Army Corps of Engineers (Galveston District), the Texas Parks and Wildlife Department, and the Texas Water Development Board provided data and field assistance. Many private citizens and commercial fishermen furnished information on historical changes and existing conditions in the estuaries.

DATA-COLLECTION METHODS

Approximately 290 data-collection sites were visited during the 1975 water year. About 50 percent of these sites are located adjacent to or between navigation aids, bridge piers, power poles, survey platforms, well structures, or other landmarks and can be reoccupied exactly. About 19 percent of the sites are close to shore features or reefs and are located by onboard radar or by compass heading and distance from the feature and water depth at the site; these sites can be reoccupied within 100 feet (30 m). About 31 percent of the sites are remote to any reference. They are reached by traveling from a known landmark at a known speed on a predetermined compass course. Verification of site location is made by checking the alignment of one or more distant landmarks by visual observation or by onboard radar. These sites can be reoccupied within 0.25 mile (0.4 km).

At each data-collection site, field data are collected from several points along a vertical. Samples for laboratory analyses are collected from a predetermined number of data-collection sites and at other sites in the network when significant changes in field data indicate a need for additional samples. Properties or constituents measured in the field are dissolved oxygen, specific conductance, temperature, pH, transparency by Secchi disk, and turbidity. Laboratory analyses include the principal inorganic ions, biochemical oxygen demand (BOD), phenols, total organic carbon (TOC), dissolved organic carbon (DOC),

suspended organic carbon (SOC), chlorophyll, coliform and streptococci bacteria, insecticides and herbicides, ammonium, nitrite, nitrate, ortho and total phosphate, and other selected ions such as aluminum, arsenic, cadmium, chromium, cobalt, copper, iron, lead, lithium, manganese, mercury, nickel, strontium, and zinc.

Field Instruments

The field instruments used in this investigation are as follows, but mention herein of the manufacturers and their instruments does not constitute an endorsement by the U.S. Geological Survey. The information is for identification only.

Parameter measured	Instrument	Model	Manufacturer
pH	Specific ion meter	401	Orion Research
pH	pH meter	175	Instrumentation Laboratory
pH	pH meter	7417	Leeds and Northrup
Dissolved oxygen	Oxygen meter	54	Yellow Springs Instruments
Specific conductance	Solubridge	RB-3	Industrial Instruments
Temperature	Research thermometer	ET-100 Marine	Applied Research
Turbidity	Colorimeter	DR	Hach Chemical

The instruments used for pH measurements were calibrated daily during each water-quality survey by using three standards: pH 4.0, 7.0, and 10.0. The dissolved-oxygen meter was calibrated at least twice daily by using the oxygen-saturation data compiled by the American Public Health Association and others (1971, p. 480). The conductivity meter was calibrated from laboratory analyses of samples collected each day. The electrical thermometer was calibrated weekly. The colorimeter was calibrated at each site.

Instrument probes are set in a manifold through which water to be sampled is drawn. Several tests were conducted to determine the effect of streaming potential on electrodes by monitoring instrument output. Dissolved-oxygen readings of water passing through the manifold deviated from the in situ readings by less than 0.1 mg/l (milligrams per liter), and pH readings differed by less than 0.05 pH units.

Treatment of Samples

All water samples except those for bacteriological, TOC, DOC, SOC, insecticide, and herbicide analyses were collected in plastic throwaway bottles. The BOD, TOC, phenol, and nutrient samples were chilled to about 1°C, stored in a refrigerator or ice chest, and shipped to the laboratory as soon as possible.

Samples for SOC and DOC analyses were collected in specially treated glass bottles and were filtered through 0.45-micrometer silver filters in the field. Residues on the filters for SOC analyses and filtrates for DOC analyses were chilled to about 1°C and shipped to the laboratory as soon as possible.

Phenol samples were treated with phosphoric acid and copper sulfate and were chilled during shipment.

Chlorophyll samples were filtered through 0.45-micrometer membrane filters and the residues on the membrane filters were chilled until analysis.

Bacteriological samples were collected in sterilized glass bottles and chilled until the analyses were completed in the field.

Water samples for the principal dissolved inorganic anions, except carbonate and bicarbonate, were filtered

through 0.45-micrometer membrane filters. Water samples for the principal dissolved inorganic cations, heavy metals, and other selected trace constituents, were filtered through 0.45-micrometer membrane filters and into bottles prewashed with 10-percent nitric acid. Two milliliters of concentrated nitric acid were added to each liter of filtrate.

Water-suspended sediment mixtures and bottom-sediment samples to be analyzed for herbicides and insecticides were collected in specially treated glass bottles, kept cool, and shipped air mail to the laboratory as soon as possible. Most herbicide and some insecticide samples were depth-integrated water samples; however, most insecticide and some herbicide samples were taken from bottom sediments. Most sediment samples were collected directly in a weighted sample bottle.

QUALITY OF WATER IN THE ESTUARIES

Sabine-Neches Estuary

The Sabine-Neches estuary covers an area of about 100 square miles (259 km^2) and consists of the tidal parts of the Sabine and Neches Rivers and other tributaries, Sabine Lake, the Sabine-Neches Canal, the Port Arthur Canal, parts of the Intracoastal Waterway, and Sabine Pass (Figure 2). Water depth at mlw (mean low water) is greater than 40 feet (12.2 m) in dredged parts of the rivers, canals, and pass; about 15 feet (4.6 m) in the Intracoastal Waterway; and generally about 10 feet (3.0 m) in Sabine Lake.

Water-quality data (Table 1) were collected during October 1974 and January, April, May, and July 1975.

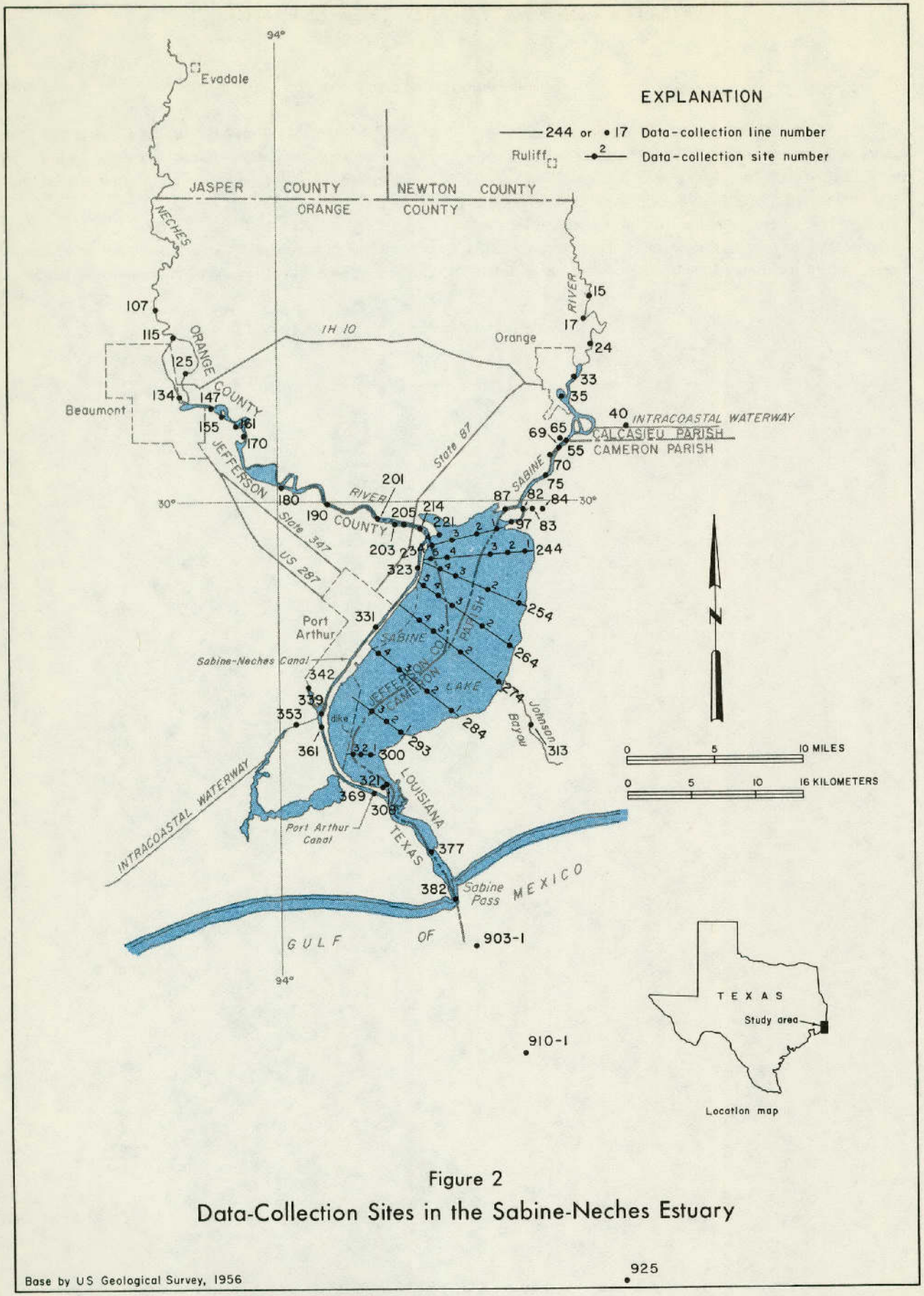

Figure 2
Data-Collection Sites in the Sabine-Neches Estuary

Base by US Geological Survey, 1956

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
						LINE 15				
OCT 08, 74	1345	2	.3	160	25.0	6.8	6.4	76	10.	--
			3.0	180	23.0	6.8	5.8	67	15.	--
			6.1	160	23.0	6.9	5.4	62	20.	--
			11.0	3400	24.0	7.0	4.0	48	5.	--
JAN 20, 75	1640	2	.3	170	12.1	7.1	8.6	80	55.	50
			1.5	170	12.1	7.1	8.6	80	50.	--
			4.6	170	12.1	7.1	8.5	79	60.	--
			8.5	170	12.1	7.1	8.6	80	60.	--
APR 07, 75	1625	2	.3	150	15.0	--	7.2	71	15.	--
			1.5	150	15.0	--	6.4	63	25.	--
			3.0	150	15.0	--	6.2	61	30.	--
			4.6	150	15.0	--	6.4	63	20.	--
			6.1	150	15.0	--	6.2	61	70.	--
MAY 20, 75	1600	2	.3	200	23.1	6.7	6.4	74	50.	36
			3.0	200	23.1	6.7	6.4	74	55.	--
			7.0	200	23.1	6.5	6.4	74	50.	--
JUL 25, 75	0950	2	.3	120	29.0	--	5.8	74	--	--
			1.5	120	29.0	--	5.8	74	--	--
			3.0	120	29.0	--	5.8	74	--	--
			7.6	130	29.0	--	6.0	77	--	--
						LINE 33				
OCT 08, 74	1435	2	.3	3700	24.3	7.1	6.9	82	5.	91
			1.5	6200	24.0	7.0	6.0	72	5.	--
			3.0	13000	24.3	7.2	4.9	60	0.	--
			6.1	18000	24.5	7.2	3.1	39	0.	--
			10.7	21000	25.0	7.2	2.2	28	10.	--
JAN 20, 75	1705	2	.3	170	12.1	7.0	8.4	78	50.	49
			1.5	170	12.1	7.0	8.4	78	50.	--
			3.0	170	12.1	7.0	8.4	78	55.	--
			6.1	170	12.1	7.0	8.6	80	40.	--
			9.1	170	12.1	7.0	8.4	78	45.	--
			11.3	170	12.1	7.0	8.4	78	50.	--
APR 07, 75	1720	2	.3	150	14.7	--	7.5	73	5.	--
			1.5	150	14.7	--	7.3	71	10.	--
			6.1	150	14.7	--	7.3	71	10.	--
			9.1	150	14.7	--	7.3	71	10.	--
			13.7	140	14.7	--	7.9	77	15.	--
MAY 20, 75	1640	2	1.5	100	23.0	6.6	6.2	71	50.	42
			5.2	100	23.0	6.6	6.2	71	60.	--
			10.4	100	23.0	6.6	6.2	71	60.	--
JUL 25, 75	1000	2	.3	120	29.1	--	5.2	67	--	--
			3.0	140	28.8	--	4.8	64	--	--
			6.1	14000	29.0	--	4.1	55	--	--
			7.6	12000	29.0	--	1.9	25	--	--
			9.4	14000	29.0	--	.8	11	--	--
						LINE 40				
OCT 08, 74	1505	2	.3	9700	25.0	7.6	7.8	95	20.	38
			3.0	9700	25.0	7.5	7.4	90	15.	--
			5.8	10000	25.0	7.3	7.0	85	20.	--
JAN 20, 75	1730	2	.3	370	10.5	7.2	9.4	84	105.	36
			1.5	370	10.5	7.2	9.4	84	110.	--

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 40 CONTINUED						
JAN 20, 75	1730	2	3.0	370	10.5	7.2	9.4	84	130.	--
			6.1	360	10.4	7.2	9.4	84	145.	--
APR 07, 75	1735	2	.3	200	14.9	--	8.1	79	10.	--
			1.5	200	14.9	--	8.0	78	10.	--
			3.0	200	14.9	--	8.0	78	5.	--
			6.4	200	15.2	--	8.0	78	10.	--
MAY 20, 75	1655	2	.3	100	23.5	6.6	6.5	76	50.	39
			6.1	100	23.0	6.6	6.3	72	50.	--
JUL 25, 75	1020	2	.3	1300	31.0	--	5.6	75	--	--
			1.5	1300	30.1	--	5.2	68	--	--
			3.0	1300	30.0	--	5.1	67	--	--
			6.1	1100	30.0	--	5.3	70	--	--
				LINE 82						
JUL 21, 75	1800	2	.3	2300	30.1	5.4	7.1	95	--	52
			1.8	2400	30.0	5.4	5.7	76	--	--
			3.7	3200	29.9	5.3	5.2	69	--	--
JUL 21, 75	2400	2	.3	2800	26.1	--	7.3	90	--	--
			1.5	2800	25.9	--	7.4	91	--	--
			3.0	2800	25.0	--	7.5	90	--	--
JUL 22, 75	0030	2	.3	4100	26.6	--	6.1	76	50.	--
			1.5	4100	26.5	--	6.1	75	60.	--
			3.0	4100	26.2	--	6.1	75	100.	--
JUL 22, 75	0600	2	.3	2800	25.9	--	5.6	69	--	--
			1.8	2800	25.1	--	5.7	69	--	--
			3.7	2300	24.5	--	6.1	73	--	--
JUL 22, 75	0750	2	.3	3000	27.0	--	5.4	68	--	--
			1.5	3000	27.0	--	5.4	68	--	--
			2.9	3100	26.5	--	5.5	68	--	--
JUL 22, 75	0920	2	.3	2600	26.5	6.8	5.9	73	70.	53
			1.5	2800	26.0	6.8	5.9	73	55.	--
			3.0	2800	26.0	6.8	5.9	73	180.	--
JUL 22, 75	1000	2	.3	2800	26.0	6.9	6.0	74	50.	53
			1.5	2800	26.0	6.9	6.1	75	55.	--
			2.9	2800	25.5	6.8	6.2	76	190.	--
JUL 22, 75	1130	2	.3	2800	27.5	6.9	5.9	75	45.	65
			1.5	2600	27.5	6.9	5.8	73	50.	--
			3.0	2600	27.5	6.8	5.9	75	75.	--
JUL 22, 75	1200	2	.3	2800	27.5	6.9	6.1	77	40.	52
			1.5	2800	27.0	6.9	6.1	76	45.	--
			2.7	2800	27.0	6.8	5.9	74	40.	--
JUL 22, 75	1320	2	.3	3000	28.3	6.9	6.2	79	45.	48
			1.5	2800	28.0	6.8	5.9	76	50.	--
			3.4	2800	28.2	6.8	5.6	72	50.	--
JUL 22, 75	1400	2	.3	3100	28.1	6.9	5.9	76	50.	58
			1.5	3100	28.1	6.9	5.9	76	50.	--
			2.7	3000	28.2	6.8	5.8	74	50.	--
JUL 22, 75	1525	2	.3	3300	28.6	--	5.9	77	50.	51
			1.5	3300	28.7	--	5.7	74	50.	--
			2.7	3300	28.8	--	5.6	73	50.	--
JUL 22, 75	1600	2	.3	3400	28.0	--	6.1	78	45.	46
			1.5	3400	28.0	--	6.0	77	50.	--

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 82 CONTINUED						
JUL 22, 75	1600	2	2.9	3400	28.0	--	5.9	76	50.	--
JUL 22, 75	1720	2	.3	3400	28.0	--	6.5	83	50.	53
			1.5	3400	28.0	--	6.3	81	50.	--
			3.0	3700	28.0	--	5.7	73	30.	--
JUL 22, 75	1755	2	.3	3300	27.6	--	6.6	84	40.	58
			1.5	3900	27.3	--	6.2	78	40.	--
			3.0	4300	27.0	--	6.1	76	50.	--
JUL 22, 75	2015	2	.3	3200	26.2	--	5.6	69	90.	--
			1.5	3200	26.1	--	5.9	73	90.	--
			3.0	3400	26.0	--	5.9	73	85.	--
JUL 22, 75	2230	2	.3	2700	27.0	--	6.1	76	100.	--
			1.5	2700	26.7	--	6.2	78	100.	--
			3.0	2700	26.5	--	6.3	78	110.	--
JUL 23, 75	0225	2	.3	4000	26.5	--	5.8	72	90.	--
			1.5	4000	26.1	--	5.9	73	80.	--
			3.0	4000	26.0	--	5.8	72	80.	--
JUL 23, 75	0420	2	.3	4600	26.5	--	5.4	67	75.	--
			1.5	4600	26.5	--	5.5	68	80.	--
			3.0	4600	26.4	--	5.5	68	115.	--
JUL 23, 75	0625	2	.3	3900	26.7	--	5.3	66	40.	--
			1.5	3900	26.4	--	5.1	63	40.	--
			3.0	4600	26.0	--	5.3	65	--	--
JUL 23, 75	0730	2	.3	2700	27.1	--	6.9	86	50.	--
			1.5	2700	27.1	--	7.1	89	--	--
			2.7	2700	25.8	--	6.0	74	135.	--
JUL 23, 75	1200	2	.3	2500	26.8	--	5.6	70	45.	61
			1.5	2600	26.3	--	5.3	65	40.	--
			3.4	2600	26.0	--	5.0	62	45.	--
JUL 23, 75	1800	2	.3	2200	29.0	--	6.2	81	40.	51
			1.5	2700	29.0	--	5.3	69	40.	--
			3.0	2900	28.9	--	4.8	62	40.	--
JUL 24, 75	0020	2	.3	2900	27.1	--	6.1	76	60.	--
			1.5	2700	27.0	--	6.1	76	60.	--
			3.0	2700	27.0	--	6.2	78	80.	--
JUL 24, 75	0610	2	.3	2500	27.8	--	6.4	82	60.	--
			1.5	2500	27.5	--	5.8	73	70.	--
			3.0	2500	27.5	--	6.2	78	60.	--
JUL 24, 75	1200	2	.3	3000	27.9	--	6.7	86	40.	56
			1.5	3700	27.9	--	6.1	78	40.	--
			2.9	3700	28.0	--	5.9	76	40.	--
JUL 24, 75	1800	2	.3	2600	29.5	--	5.7	75	40.	44
			1.5	3000	29.4	--	5.3	70	40.	--
			2.9	3400	29.9	--	4.5	60	45.	--
				LINE 87						
OCT 08, 74	1535	2	.3	12000	25.1	7.6	6.8	84	5.	79
			3.0	14000	24.9	7.6	6.1	75	5.	--
			6.1	26000	24.0	7.8	5.5	70	10.	--
JAN 20, 75	1750	2	.3	220	12.7	7.0	8.4	79	80.	--
			3.0	220	12.7	7.0	8.4	79	80.	--
			7.6	220	12.7	7.0	8.5	79	80.	--
			9.8	190	12.6	7.0	8.6	80	70.	--

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 87 CONTINUED						
APR 07, 75	1755	2	.3	800	14.8	--	8.5	83	10.	--
			1.5	800	14.8	--	8.5	83	10.	--
			3.0	900	14.8	--	8.5	83	10.	--
			6.1	2900	14.3	--	8.0	78	--	--
			9.1	11000	14.9	--	6.5	66	10.	--
			11.3	19000	15.1	--	5.7	59	10.	--
MAY 20, 75	1730	2	.3	160	23.1	6.8	6.8	78	45.	45
			4.6	160	23.0	6.7	6.5	75	45.	--
			10.1	160	23.0	6.7	6.4	74	50.	--
JUL 22, 75	1015	2	.3	2400	27.0	6.8	5.7	71	40.	61
			3.0	2900	27.0	6.8	5.4	68	40.	--
			6.1	8800	27.0	7.0	4.6	58	35.	--
			7.6	16000	27.0	7.3	3.4	44	40.	--
			10.1	16000	26.5	7.3	3.5	45	80.	--
JUL 22, 75	2000	2	.3	2000	26.1	--	6.1	75	35.	--
			3.0	2100	26.1	--	5.7	70	35.	--
			4.6	2200	26.1	--	5.1	63	75.	--
			10.4	18000	24.9	--	4.0	51	50.	--
JUL 22, 75	2215	2	.3	1800	27.0	--	6.1	76	110.	--
			3.0	2200	26.9	--	5.9	74	100.	--
			4.6	7600	26.8	--	5.2	65	90.	--
			6.1	16000	26.4	--	4.1	53	70.	--
			7.6	18000	26.0	--	3.8	49	60.	--
			10.4	18000	25.0	--	4.3	54	40.	--
JUL 22, 75	2400	2	.3	1500	26.5	--	6.1	74	45.	--
			3.0	2200	26.5	--	5.5	69	40.	--
			4.6	2600	26.1	--	5.0	62	25.	--
			10.4	19000	25.2	--	3.8	48	80.	--
JUL 22, 75	1900	2	.3	1600	28.6	4.9	6.1	78	--	52
			3.0	2900	28.5	4.8	5.1	65	--	--
			6.1	17000	28.8	5.2	3.5	48	--	--
			10.1	17000	28.8	5.2	3.3	45	--	--
JUL 22, 75	0600	2	.3	1700	26.9	--	5.6	70	--	--
			3.0	1800	26.6	--	5.5	68	--	--
			6.1	3600	26.6	--	4.6	58	--	--
			9.8	16000	26.0	--	3.6	46	--	--
JUL 22, 75	0815	2	.3	2600	27.0	6.9	5.5	69	--	--
			3.0	2900	27.0	6.9	6.9	66	--	--
			6.1	4700	27.0	6.9	5.0	62	--	--
			7.6	13000	27.0	7.2	3.9	50	--	--
			9.4	16000	27.0	7.3	3.6	47	--	--
JUL 22, 75	0900	2	.3	2500	26.5	6.8	5.6	69	40.	--
			3.0	2600	26.5	6.8	5.6	69	45.	--
			6.1	4300	26.5	6.9	5.2	64	40.	--
			7.6	12000	26.5	7.1	4.1	52	25.	--
			10.4	17000	26.0	7.3	3.5	45	30.	--
JUL 22, 75	1100	2	.3	2600	27.5	6.9	5.7	72	55.	55
			3.0	2900	27.5	6.9	5.3	67	40.	--
			4.6	3900	28.0	6.9	5.1	65	40.	--
			4.9	4800	26.5	6.9	5.3	65	40.	--
			7.6	16000	27.5	7.3	3.4	44	80.	--
			10.1	16000	27.5	7.2	3.4	44	--	--
JUL 22, 75	1700	2	.3	2600	28.0	--	6.5	83	50.	58
			3.0	3700	28.1	--	5.2	67	45.	--
			4.6	12000	28.2	--	4.5	59	35.	--
			6.1	16000	28.2	--	3.7	49	35.	--
			7.6	17000	28.2	--	3.7	50	45.	--
			10.1	17000	28.2	--	3.7	50	65.	--

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 87 CONTINUED						
JUL 22, 75	1810	2	.3	2300	27.7	--	6.2	79	50.	53
			3.0	3000	27.8	--	5.4	69	45.	--
			4.6	11000	27.8	--	4.6	60	35.	--
			6.1	15000	27.8	--	4.0	53	30.	--
			7.6	17000	27.3	--	3.7	49	30.	--
			10.4	18000	27.0	--	4.3	57	35.	--
JUL 22, 75	0100	2	.3	1400	25.6	--	6.3	77	--	--
			3.0	2200	25.5	--	6.0	74	--	--
			6.1	6700	25.5	--	5.0	61	--	--
			10.1	16000	25.5	--	3.6	46	--	--
JUL 22, 75	1220	2	.3	2500	28.0	6.8	5.9	76	35.	54
			3.0	2900	28.0	6.8	5.4	69	35.	--
			4.6	4500	28.0	6.9	5.0	64	35.	--
			6.1	12000	28.0	7.1	4.3	57	30.	--
			7.6	16000	28.0	7.3	3.4	45	30.	--
			9.8	17000	28.0	7.2	3.3	45	--	--
JUL 22, 75	1300	2	.3	2600	28.0	6.9	6.2	79	50.	53
			3.0	2600	28.0	6.8	5.5	71	45.	--
			4.6	7200	28.0	7.0	4.8	62	40.	--
			6.1	13000	28.0	7.2	4.2	55	30.	--
			7.6	16000	28.0	7.2	3.5	47	30.	--
			10.4	17000	28.0	7.2	3.4	46	30.	--
JUL 22, 75	1415	2	.3	2400	28.7	6.9	5.9	77	40.	57
			3.0	3600	28.8	6.9	5.2	68	40.	--
			4.6	7900	28.8	7.0	4.7	62	40.	--
			6.1	14000	28.9	7.2	3.9	52	30.	--
			7.6	16000	28.8	7.3	3.3	45	30.	--
			10.1	17000	28.5	7.2	3.2	43	30.	--
JUL 22, 75	1500	2	.3	2600	28.9	--	6.0	78	50.	59
			3.0	3700	28.9	--	5.2	68	40.	--
			4.6	10000	28.9	--	4.3	57	35.	--
			6.1	15000	29.0	--	3.5	47	35.	--
			7.6	16000	29.1	--	3.3	45	55.	--
			10.1	16000	29.4	--	3.4	46	80.	--
JUL 22, 75	1615	2	.3	2600	28.0	--	6.1	78	50.	50
			3.0	3700	28.0	--	5.3	68	40.	--
			4.6	11000	28.1	--	4.4	57	40.	--
			6.1	15000	28.0	--	3.5	47	40.	--
			7.6	17000	28.0	--	3.4	46	40.	--
			9.8	17000	27.8	--	3.8	51	50.	--
JUL 23, 75	0210	2	.3	1700	26.5	--	5.9	72	60.	--
			3.0	1900	26.4	--	5.7	70	50.	--
			4.6	2100	26.4	--	5.5	68	45.	--
			6.1	7200	26.5	--	4.5	56	45.	--
			7.6	16000	26.1	--	3.6	46	30.	--
			10.4	19000	25.5	--	3.9	50	35.	--
JUL 23, 75	0400	2	.3	1600	26.1	--	5.9	72	55.	--
			3.0	2000	26.0	--	5.8	72	50.	--
			4.6	2200	26.0	--	5.6	69	50.	--
			6.1	7200	26.0	--	4.9	61	40.	--
			7.6	16000	25.5	--	4.1	52	40.	--
			10.4	18000	24.9	--	4.3	54	40.	--
JUL 23, 75	0600	2	.3	1700	26.2	--	6.0	73	40.	--
			3.0	2000	26.1	--	5.7	70	50.	--
			4.6	8500	26.0	--	5.2	65	35.	--
			6.1	8300	25.1	--	5.3	65	35.	--
JUL 23, 75	0810	2	.3	2400	27.1	--	7.4	92	45.	63
			3.0	2300	27.1	--	6.3	79	45.	--
			6.1	8500	27.1	--	6.0	76	60.	--

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 87 CONTINUED						
JUL 23, 75	0810	2	9.8	20000	26.1	--	4.7	62	30.	--
JUL 23, 75	1230	2	.3	2300	28.6	--	5.6	72	40.	56
			3.0	2800	28.0	--	5.0	64	40.	--
			4.6	10000	28.1	--	4.3	56	30.	--
			6.1	13000	28.0	--	3.9	51	25.	--
			7.6	19000	28.0	--	3.4	46	25.	--
			10.1	19000	27.6	--	3.5	47	--	--
JUL 23, 75	1815	2	.3	2500	29.1	--	5.7	74	40.	49
			3.0	6000	29.1	--	4.8	63	35.	--
			4.6	11000	29.1	--	4.2	55	35.	--
			6.1	17000	29.1	--	3.2	44	30.	--
			10.1	19000	29.0	--	3.1	42	70.	--
JUL 24, 75	0010	2	.3	2100	26.1	--	6.2	77	25.	--
			3.0	3300	26.1	--	6.0	74	50.	--
			4.6	5400	26.0	--	5.4	68	40.	--
			7.6	11000	25.2	--	4.4	54	50.	--
			10.7	19000	24.6	--	4.1	52	30.	--
JUL 24, 75	0600	2	.3	1800	27.2	--	6.3	78	--	--
			3.0	2200	27.2	--	5.8	72	50.	--
			4.6	4200	27.2	--	5.3	66	30.	--
			7.6	10000	27.0	--	3.9	49	80.	--
			10.7	19000	26.0	--	4.4	57	50.	--
JUL 24, 75	1215	2	.3	2300	28.4	--	7.0	90	40.	54
			3.0	2600	28.2	--	6.1	78	45.	--
			4.6	5300	28.2	--	5.9	77	40.	--
			6.1	9700	28.2	--	5.4	70	35.	--
			9.8	20000	28.0	--	3.7	51	45.	--
JUL 24, 75	1815	2	.3	2300	29.9	--	5.3	71	40.	53
			3.0	2800	29.8	--	5.1	68	40.	--
			4.6	8700	29.8	--	3.9	53	30.	--
			6.1	14000	29.9	--	3.5	48	25.	--
			9.1	21000	30.0	--	2.5	35	30.	--
JUL 25, 75	1050	2	.3	2100	29.9	--	5.1	68	--	--
			3.0	2500	29.8	--	4.9	65	--	--
			6.1	6000	29.8	--	4.2	57	--	--
			10.1	20000	30.0	--	2.7	38	--	--
				LINE 107						
OCT 08, 74	1350	2	.3	160	24.4	7.0	7.6	90	40.	43
			1.5	130	23.4	6.9	7.4	86	40.	--
			3.0	130	23.3	7.0	7.2	83	40.	--
			4.6	130	23.2	6.9	7.0	80	40.	--
			6.7	230	23.1	6.9	6.2	71	40.	--
JAN 20, 75	1640	2	.3	130	11.8	6.5	8.8	81	40.	28
			1.5	130	11.7	6.5	8.8	81	50.	--
			3.0	130	11.7	6.5	8.9	82	55.	--
			6.1	130	11.7	6.5	9.0	83	55.	--
APR 07, 75	1630	2	.3	160	17.2	--	8.8	91	40.	34
			1.5	160	17.2	--	8.8	91	40.	--
			3.0	160	17.3	--	8.8	91	45.	--
			6.7	160	17.2	--	9.0	93	45.	--
MAY 20, 75	1520	2	.3	120	25.3	--	6.4	76	60.	30
			1.5	120	25.5	--	6.4	77	70.	--
			3.0	120	25.6	--	6.5	78	70.	--
			4.6	120	25.7	--	6.4	77	70.	--
			7.9	120	25.7	--	6.4	77	70.	--
JUL 25, 75	0935	2	.3	140	28.1	6.1	8.0	101	--	23

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 107 CONTINUED					
JUL 25, 75	0935	2	1.8	160	28.1	6.6	8.3	105	--	--
			3.7	160	28.1	6.6	8.2	104	--	--
			5.5	150	28.1	6.5	8.9	113	--	--
			7.3	240	28.1	7.1	5.8	73	--	--
					LINE 147					
OCT 08, 74	1425	2	.3	3600	25.7	7.0	6.5	79	60.	48
			1.5	4500	24.2	7.0	5.3	63	55.	--
			3.0	17000	24.3	7.1	4.1	51	50.	--
			4.6	12000	24.6	7.1	3.5	43	35.	--
			6.1	18000	24.9	7.2	1.8	23	10.	--
			9.1	24000	25.2	7.4	1.5	19	5.	--
			13.7	26000	25.2	7.3	1.1	14	5.	--
JAN 20, 75	1705	2	1.5	180	11.8	6.4	8.6	79	40.	28
			3.0	160	11.8	6.4	8.7	80	40.	--
			6.1	220	11.8	6.4	8.7	80	58.	--
			9.1	240	11.8	6.4	8.8	81	60.	--
			12.2	240	11.8	6.4	8.9	82	50.	--
APR 07, 75	1715	2	.3	1000	17.2	--	8.6	89	50.	38
			1.5	1000	17.1	--	8.6	89	55.	--
			3.0	1000	17.1	--	8.4	87	50.	--
			6.1	1200	17.0	--	8.2	85	50.	--
			9.1	6600	17.7	--	6.8	72	35.	--
			12.2	30000	17.7	--	5.7	66	10.	--
JUL 25, 75	1010	2	.3	4700	28.5	6.3	5.7	73	--	31
			3.0	6100	28.5	6.2	5.7	75	--	--
			6.1	18000	28.5	6.2	4.3	58	--	--
			9.1	18000	28.5	6.1	4.1	55	--	--
			13.7	18000	28.5	5.8	4.1	55	--	--
					LINE 214					
OCT 08, 74	1525	2	.3	12000	25.6	7.7	6.7	84	0.	66
			1.5	13000	25.6	7.7	8.4	105	15.	--
			3.0	18000	25.6	7.7	6.2	79	10.	--
			4.6	20000	24.9	7.8	6.0	77	10.	--
			6.1	29000	24.0	7.9	5.7	74	10.	--
			9.1	31000	23.7	7.9	6.9	90	30.	--
			13.7	31000	23.8	7.8	5.6	74	10.	--
JAN 20, 75	1735	2	.3	380	12.1	6.9	9.2	85	80.	22
			1.5	380	12.0	6.8	8.9	82	80.	--
			3.0	360	12.0	6.7	8.9	82	80.	--
			6.1	330	11.9	6.7	8.9	82	80.	--
			9.1	330	11.8	6.6	8.9	82	80.	--
			13.7	330	11.8	6.6	9.3	85	90.	--
APR 07, 75	1800	2	.3	2600	17.8	--	8.1	86	50.	38
			1.5	2600	17.8	--	8.1	86	50.	--
			3.0	2800	17.7	--	8.0	84	50.	--
			6.1	6500	17.1	--	7.3	77	50.	--
			9.1	25000	17.3	--	6.4	72	50.	--
			12.2	28000	17.4	--	6.1	70	50.	--
MAY 20, 75	1650	2	.3	200	24.5	--	6.0	71	90.	25
			1.5	200	25.6	--	5.9	71	70.	--
			3.0	200	25.5	--	5.8	70	60.	--
			6.1	200	25.2	--	5.7	68	60.	--
			13.7	200	24.7	--	5.6	67	70.	--
JUL 21, 75	1900	2	.3	6200	34.0	7.9	5.7	81	--	--
			1.5	9300	30.0	7.1	3.8	51	--	--
			3.0	23000	29.0	7.5	3.4	47	--	--

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 214 CONTINUED						
JUL 21, 75	1900	2	6.1	24000	30.0	7.6	2.7	39	--	--
			7.6	28000	29.5	7.7	2.8	40	--	--
			9.1	31000	30.0	7.7	2.4	35	--	--
JUL 21, 75	2355	2	.3	5700	33.0	7.4	5.0	70	--	--
			1.5	6900	31.0	7.2	4.8	66	--	--
			3.0	6900	31.0	7.1	4.6	63	--	--
			6.1	9300	30.0	7.2	4.0	54	--	--
			7.6	23000	30.0	7.5	3.0	43	--	--
			9.1	27000	30.0	7.6	2.6	38	--	--
JUL 22, 75	1100	2	.3	5900	31.0	7.8	4.5	62	--	--
			1.5	6900	31.0	7.8	4.4	60	--	--
			3.0	9100	31.0	7.8	4.2	58	--	--
			4.6	14000	30.0	7.8	4.4	60	--	--
			6.1	18000	30.0	7.8	3.9	54	--	--
			7.6	26000	30.0	7.8	3.1	44	--	--
			9.1	27000	30.0	7.8	2.6	38	--	--
			10.7	27000	30.0	7.8	2.9	42	--	--
JUL 22, 75	1230	2	.3	6800	31.5	7.8	3.6	49	--	--
			1.5	7100	31.0	7.8	3.8	52	--	--
			3.0	8700	30.5	7.8	4.1	55	--	--
			4.6	14000	30.0	7.8	4.0	55	--	--
			6.1	21000	30.0	7.8	3.4	48	--	--
			7.6	24000	30.0	7.8	3.0	43	--	--
			9.1	27000	30.0	7.8	3.1	45	--	--
			10.7	24000	30.0	7.8	2.9	41	--	--
JUL 22, 75	1300	2	.3	6300	32.0	7.8	4.0	56	--	--
			1.5	6900	31.5	7.8	4.2	58	--	--
			3.0	8100	30.0	7.8	4.1	55	--	--
			4.6	14000	30.0	7.8	3.7	51	--	--
			6.1	22000	30.0	7.8	3.2	46	--	--
			7.6	26000	30.0	7.8	3.2	46	--	--
			9.1	27000	30.0	7.8	2.8	41	--	--
			10.7	30000	30.0	7.8	2.9	41	--	--
JUL 22, 75	1400	2	.3	7100	31.0	7.8	4.5	62	--	--
			1.5	7600	31.0	7.8	4.5	62	--	--
			3.0	12000	30.5	7.8	3.9	53	--	--
			4.6	14000	30.5	7.8	3.7	51	--	--
			6.1	22000	30.0	7.8	3.2	44	--	--
			7.6	26000	30.0	7.8	3.1	44	--	--
			9.1	27000	30.0	7.8	3.0	43	--	--
			10.7	30000	30.0	7.8	2.9	43	--	--
JUL 22, 75	0600	2	.3	6900	32.0	7.2	4.8	66	--	--
			1.5	8100	31.5	7.2	4.8	67	--	--
			3.0	8100	31.5	7.2	4.6	64	--	--
			6.1	11000	31.0	7.3	4.2	58	--	--
			7.6	17000	30.5	7.4	3.3	46	--	--
			9.1	24000	30.0	7.4	2.9	41	--	--
JUL 22, 75	1500	2	.3	6500	31.5	7.8	4.6	64	--	--
			1.5	7400	31.0	7.8	4.4	60	--	--
			3.0	12000	30.5	7.8	4.0	55	--	--
			4.6	17000	30.0	7.8	3.6	50	--	--
			6.1	22000	30.0	7.8	3.2	46	--	--
			7.6	26000	30.0	7.8	3.1	44	--	--
			9.1	27000	30.0	7.8	3.0	43	--	--
			10.7	28000	30.0	7.8	3.0	43	--	--
JUL 22, 75	1600	2	.3	7600	31.5	7.8	4.8	67	--	--
			1.5	7600	31.0	7.8	4.4	60	--	--
			3.0	11000	30.0	7.8	3.9	53	--	--
			4.6	13000	30.0	7.8	3.6	49	--	--
			6.1	23000	30.0	7.8	3.2	46	--	--
			7.6	26000	30.0	7.8	3.1	44	--	--

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

LINE 214 CONTINUED

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
JUL 22, 75	1600	2	9.1	30000	30.0	7.8	2.8	41	--	--
			10.7	30000	30.0	7.8	2.8	41	--	--
JUL 22, 75	1700	2	.3	7000	33.0	7.8	5.0	70	--	--
			1.5	7100	31.0	7.8	4.5	62	--	--
			3.0	11000	30.0	7.8	4.1	55	--	--
			4.6	15000	30.0	7.8	3.6	49	--	--
			6.1	23000	30.0	7.8	3.2	46	--	--
			7.6	26000	30.0	7.8	3.2	46	--	--
			9.1	28000	30.0	7.8	3.1	45	--	--
			10.7	28000	30.0	7.8	3.1	45	--	--
JUL 22, 75	1800	2	.3	7000	33.0	7.8	4.8	68	--	--
			1.5	6900	30.5	7.8	4.4	59	--	--
			3.0	12000	30.0	7.8	3.6	49	--	--
			4.6	17000	30.0	7.8	3.1	43	--	--
			6.1	22000	30.0	7.8	2.7	39	--	--
			7.6	28000	30.0	7.8	2.6	38	--	--
			9.1	30000	30.0	7.8	2.7	40	--	--
			10.7	31000	30.0	7.8	2.6	38	--	--
JUL 22, 75	2000	2	.3	7300	31.0	7.5	5.0	68	--	--
			1.5	8100	31.0	7.4	4.9	67	--	--
			3.0	11000	30.5	7.4	4.3	58	--	--
			6.1	23000	30.5	7.6	3.3	47	--	--
			7.6	28000	30.5	7.8	3.1	45	--	--
			9.1	32000	30.0	7.8	2.9	43	--	--
JUL 22, 75	2200	2	.3	7000	33.0	7.6	4.6	65	--	--
			1.5	6300	31.0	7.4	4.6	63	--	--
			3.0	8100	30.0	7.1	4.6	62	--	--
			6.1	17000	30.0	7.3	3.5	49	--	--
			7.6	27000	30.5	7.7	3.0	43	--	--
			9.1	31000	30.0	7.8	2.9	43	--	--
JUL 22, 75	2400	2	.3	6800	31.5	7.3	4.8	67	--	--
			1.5	7000	30.5	7.3	4.4	59	--	--
			3.0	7000	30.0	7.1	4.2	57	--	--
			6.1	12000	30.0	7.2	3.7	51	--	--
			7.6	21000	30.5	7.5	2.9	41	--	--
			9.1	27000	30.0	7.7	2.8	41	--	--
JUL 22, 75	0700	2	.6	6100	31.0	7.8	4.4	60	--	--
			2.1	6400	31.0	7.8	4.4	60	--	--
			3.7	9300	31.0	7.8	4.3	59	--	--
			5.2	15000	31.0	7.8	3.6	50	--	--
			6.7	18000	30.0	7.8	3.4	47	--	--
			8.2	22000	30.0	7.8	3.0	43	--	--
			10.1	22000	30.0	7.8	2.9	41	--	--
JUL 22, 75	0800	2	.3	6100	31.0	7.8	4.7	64	--	--
			1.5	6900	31.0	7.8	4.7	64	--	--
			3.0	8100	31.0	7.8	4.5	62	--	--
			4.6	13000	31.0	7.9	3.9	54	--	--
			6.1	17000	30.0	7.9	3.8	53	--	--
			7.6	19000	30.0	7.9	3.6	50	--	--
			9.1	23000	30.0	7.9	3.3	47	--	--
			10.7	24000	30.0	7.9	2.9	41	--	--
JUL 22, 75	0900	2	.3	6000	31.0	7.8	4.6	63	--	--
			1.5	6400	31.0	7.8	4.5	62	--	--
			3.0	11000	31.0	7.8	4.3	59	--	--
			4.6	12000	31.0	7.8	4.2	58	--	--
			6.1	18000	31.0	7.8	3.8	54	--	--
			7.6	23000	30.0	7.8	3.2	46	--	--
			9.1	26000	30.0	7.8	3.0	43	--	--
			10.7	26000	30.0	7.8	3.0	43	--	--
JUL 22, 75	1000	2	.3	6600	31.0	7.8	4.6	63	--	--

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

LINE 214 CONTINUED

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
JUL 22, 75	1000	2	1.5	6500	31.0	7.8	4.6	63	--	--
			3.0	8300	31.0	7.8	4.4	60	--	--
			4.6	12000	30.0	7.8	4.2	58	--	--
			6.1	17000	30.0	7.8	3.9	54	--	--
			7.6	23000	30.0	7.8	3.2	46	--	--
			9.1	27000	30.0	7.8	2.9	42	--	--
			10.7	27000	30.0	7.8	2.9	42	--	--
JUL 23, 75	1300	2	.3	6400	31.5	7.8	3.8	53	--	--
			1.5	6600	30.5	7.8	3.8	51	--	--
			3.0	8000	30.5	7.8	3.8	51	--	--
			4.6	14000	30.0	7.8	3.6	49	--	--
			6.1	23000	30.0	7.6	2.9	--	--	--
			7.6	27000	30.0	7.8	2.7	39	--	--
			9.1	30000	30.0	7.8	2.6	38	--	--
			10.7	31000	30.0	7.8	2.6	38	--	--
JUL 23, 75	1500	2	.3	6800	31.5	--	4.9	68	--	--
			1.5	6800	30.0	7.7	4.4	59	--	--
			3.0	11000	30.0	7.8	4.1	55	--	--
			4.6	13000	30.0	7.8	3.5	48	--	--
			6.1	21000	30.0	7.8	3.1	44	--	--
			7.6	28000	30.0	7.8	2.7	39	--	--
			9.1	31000	30.0	7.8	2.5	37	--	--
			10.7	32000	30.0	7.8	2.5	37	--	--
JUL 23, 75	1400	2	.3	6300	31.5	--	3.8	53	--	--
			1.5	7000	30.5	7.3	4.4	59	--	--
			3.0	7600	30.0	7.1	4.2	57	--	--
			4.6	12000	30.0	7.8	3.3	45	--	--
			6.1	12000	30.0	7.2	3.7	51	--	--
			6.1	23000	30.0	7.8	2.6	37	--	--
			7.6	21000	30.5	7.5	2.9	41	--	--
			7.6	27000	30.0	7.8	2.5	36	--	--
			9.1	27000	30.0	7.7	2.8	41	--	--
			9.1	30000	30.0	7.8	2.4	35	--	--
			10.7	31000	30.0	7.8	3.5	48	--	--
JUL 23, 75	0200	2	.3	6800	31.0	7.2	4.9	67	--	--
			1.5	7000	30.5	7.4	4.3	58	--	--
			3.0	7000	30.5	7.2	4.3	58	--	--
			6.1	11000	30.5	7.2	3.7	50	--	--
			7.6	19000	30.0	7.4	3.0	42	--	--
			9.1	28000	30.0	7.6	2.5	36	--	--
JUL 23, 75	0700	2	.3	6400	31.0	7.8	4.5	62	--	--
			1.5	6500	31.0	7.8	4.5	62	--	--
			3.0	7000	30.5	7.8	4.1	55	--	--
			4.6	11000	30.5	7.8	3.8	51	--	--
			6.1	13000	30.0	7.8	3.5	48	--	--
			7.6	19000	30.0	7.8	3.1	43	--	--
			9.1	24000	30.0	7.8	2.9	41	--	--
			10.7	24000	30.0	7.8	2.9	41	--	--
JUL 23, 75	0800	2	.3	6800	30.5	7.8	4.6	62	--	--
			4.6	12000	30.5	7.8	4.0	55	--	--
			6.1	18000	30.0	7.8	3.6	49	--	--
			7.6	18000	30.0	7.8	3.4	47	--	--
			9.1	24000	30.0	7.8	2.9	41	--	--
			10.7	27000	30.0	7.8	2.7	39	--	--
JUL 23, 75	0900	2	.3	6500	30.5	7.8	4.5	61	--	--
			1.5	7100	30.5	7.8	4.4	59	--	--
			3.0	11000	30.5	7.8	4.2	57	--	--
			4.6	13000	30.5	7.8	4.0	55	--	--
			6.1	17000	30.5	7.8	3.7	51	--	--
			7.6	23000	30.0	7.8	3.1	44	--	--
			9.1	26000	30.0	7.8	2.9	41	--	--
			10.7	28000	30.0	7.8	2.7	39	--	--

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

LINE 214 CONTINUED

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
JUL 23, 75	1000	2	.3	7100	31.0	7.8	4.4	60	--	--
			1.5	7100	31.0	7.8	4.1	56	--	--
			3.0	8600	30.5	7.8	3.9	53	--	--
			4.6	13000	30.5	7.8	3.6	49	--	--
			6.1	18000	30.5	7.8	3.4	47	--	--
			7.6	23000	30.0	7.8	2.9	41	--	--
			9.1	27000	30.0	7.8	2.7	39	--	--
			10.7	27000	30.0	7.8	2.7	39	--	--
JUL 23, 75	1100	2	.3	6500	31.0	7.8	4.5	62	--	--
			1.5	7000	30.5	7.8	4.2	57	--	--
			3.0	9100	30.5	7.8	4.1	55	--	--
			4.6	13000	30.5	7.8	3.9	53	--	--
			6.1	19000	30.0	7.8	3.5	49	--	--
			7.6	26000	30.0	7.8	2.9	41	--	--
			9.1	30000	30.0	7.8	--	--	--	--
			10.7	30000	30.0	7.8	2.5	37	--	--
JUL 23, 75	0400	2	.3	6800	31.5	7.4	4.3	60	--	--
			1.5	7000	31.0	7.4	4.4	60	--	--
			3.0	7000	31.0	7.3	4.3	59	--	--
			6.1	11000	30.5	7.2	4.0	54	--	--
			7.6	13000	30.0	7.2	3.6	49	--	--
			9.1	22000	30.0	7.4	2.7	39	--	--
JUL 23, 75	0600	2	.3	7000	31.5	7.2	4.6	64	--	--
			1.5	8100	31.5	7.1	4.5	62	--	--
			3.0	8100	31.0	7.2	4.5	62	--	--
			6.1	11000	30.5	7.2	3.8	51	--	--
			7.6	14000	30.5	7.2	3.5	48	--	--
			9.1	19000	30.5	7.4	3.3	46	--	--
JUL 23, 75	1200	2	.3	6700	31.5	7.8	4.2	58	--	--
			1.5	6800	30.5	7.8	4.0	54	--	--
			3.0	12000	30.5	7.8	3.8	52	--	--
			4.6	13000	30.0	7.8	3.6	49	--	--
			6.1	19000	30.0	7.8	3.3	46	--	--
			7.6	27000	30.0	7.8	2.8	41	--	--
			9.1	30000	30.0	7.8	2.6	38	--	--
			10.7	26000	30.0	7.8	2.8	40	--	--
JUL 23, 75	1600	2	.3	6800	32.0	7.7	5.0	69	--	--
			1.5	6900	30.0	7.7	4.6	62	--	--
			3.0	11000	30.0	7.7	4.0	54	--	--
			4.6	15000	30.0	7.7	3.5	48	--	--
			6.1	23000	30.0	7.7	2.9	41	--	--
			7.6	28000	30.0	7.7	2.8	41	--	--
			9.1	32000	30.0	7.7	2.5	37	--	--
			10.7	32000	30.0	7.7	2.4	35	--	--
JUL 23, 75	1700	2	.3	7500	32.0	7.8	5.0	69	--	--
			1.5	7600	31.5	7.8	4.9	68	--	--
			3.0	8300	31.0	7.8	4.1	56	--	--
			4.6	14000	30.5	7.8	3.5	48	--	--
			6.1	19000	30.0	7.7	3.2	44	--	--
			7.6	28000	30.0	7.7	2.6	38	--	--
			9.1	30000	30.0	7.7	2.6	38	--	--
			10.7	32000	30.0	7.7	2.6	38	--	--
JUL 23, 75	1800	2	.3	7900	33.0	7.8	5.3	75	--	--
			1.5	7000	31.0	7.8	4.7	64	--	--
			3.0	8500	30.0	7.8	4.0	54	--	--
			4.6	17000	30.0	7.8	3.3	46	--	--
			6.1	22000	30.0	7.8	3.1	44	--	--
			7.0	27000	30.0	7.8	2.9	42	--	--
			9.1	31000	30.0	7.8	2.8	41	--	--
			10.7	29000	30.0	7.8	2.8	41	--	--
JUL 23, 75	2400	2	.3	7500	33.0	7.4	4.4	62	--	--

TABLE 14--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

LINE 214 CONTINUED

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
JUL 23, 75	2400	2	1.5	5800	30.0	7.1	4.3	58	--	--
			3.0	8100	30.5	7.2	4.1	55	--	--
			4.6	12000	30.5	7.3	3.7	51	--	--
			6.1	17000	30.5	7.3	3.3	46	--	--
			7.6	28000	30.5	7.7	2.8	41	--	--
			9.1	29000	30.0	7.7	2.8	41	--	--
JUL 24, 75	0600	2	.3	2600	31.0	7.2	4.4	59	--	--
			1.5	6000	31.0	7.2	4.3	59	--	--
			3.0	5900	30.5	7.2	4.2	57	--	--
			4.6	6100	30.5	7.1	4.2	57	--	--
			6.1	7500	30.0	7.1	3.9	53	--	--
			7.6	11000	29.5	7.1	3.7	49	--	--
			9.1	28000	30.0	7.4	2.7	39	--	--
JUL 24, 75	0700	2	.3	5600	30.8	7.8	4.2	57	--	--
			1.5	6800	31.0	7.8	4.2	58	--	--
			3.0	6400	31.0	7.8	4.2	58	--	--
			4.6	7500	31.0	7.8	4.1	56	--	--
			6.1	12000	30.8	7.8	3.3	45	--	--
			7.6	19000	30.0	7.8	2.9	40	--	--
			9.1	27000	30.0	7.8	2.5	36	--	--
			10.7	30000	30.0	7.8	2.4	35	--	--
JUL 24, 75	0800	2	.3	6500	31.0	7.8	4.3	59	--	--
			1.5	6600	31.0	7.8	4.3	59	--	--
			3.0	6900	31.0	7.8	4.3	59	--	--
			4.6	8200	30.5	7.8	3.9	53	--	--
			6.1	13000	30.0	7.8	3.3	45	--	--
			7.6	22000	30.0	7.8	2.8	40	--	--
			9.1	28000	30.0	7.8	2.6	38	--	--
			10.7	31000	30.0	7.8	2.4	35	--	--
JUL 24, 75	0900	2	.3	6000	30.5	7.8	4.1	55	--	--
			1.5	6800	31.0	7.8	4.0	55	--	--
			3.0	7600	30.5	7.8	4.0	54	--	--
			4.6	8500	30.5	7.8	3.7	50	--	--
			6.1	15000	30.0	7.8	3.3	45	--	--
			7.6	22000	30.0	7.8	2.8	40	--	--
			9.1	28000	30.0	7.8	2.5	36	--	--
			10.7	32000	30.0	7.8	2.4	35	--	--
JUL 24, 75	1000	2	.3	6100	31.0	7.8	4.2	58	--	--
			1.5	6400	31.0	7.8	4.0	55	--	--
			3.0	7600	30.5	7.8	3.9	53	--	--
			4.6	11000	30.5	7.8	3.7	50	--	--
			6.1	18000	30.0	7.8	3.3	46	--	--
			7.6	23000	30.0	7.8	2.9	41	--	--
			9.1	28000	30.0	7.8	2.5	36	--	--
			10.7	32000	30.0	7.8	2.2	32	--	--
JUL 24, 75	1100	2	.3	6300	31.0	7.8	4.1	56	--	--
			1.5	7000	31.0	7.8	3.9	53	--	--
			3.0	7400	30.5	7.8	3.9	53	--	--
			4.6	11000	30.5	7.8	3.8	51	--	--
			6.1	15000	30.0	7.8	3.7	51	--	--
			7.6	22000	30.0	7.8	3.0	43	--	--
			9.1	28000	30.0	7.8	2.5	36	--	--
			10.7	32000	30.0	7.8	2.3	34	--	--
JUL 24, 75	1200	2	.3	7000	31.0	7.8	4.2	58	--	--
			1.5	6800	31.0	7.8	4.0	55	--	--
			3.0	7900	30.5	7.8	3.8	51	--	--
			4.6	9500	30.5	7.8	3.6	49	--	--
			6.1	17000	30.0	7.8	3.4	47	--	--
			7.6	22000	30.0	7.8	2.8	40	--	--
			9.1	30000	30.0	7.8	2.3	34	--	--
			10.7	28000	30.0	7.8	2.3	34	--	--
JUL 24, 75	1300	2	.3	6500	31.0	7.8	3.7	51	--	--

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 214 CONTINUED					
JUL 24, 75	1300	2	1.5	7000	31.0	7.8	3.5	48	--	--
			3.0	7500	30.5	7.8	3.5	47	--	--
			4.6	14000	30.5	7.8	3.3	45	--	--
			6.1	21000	30.0	7.8	3.1	44	--	--
			7.6	26000	30.0	7.8	2.7	39	--	--
			9.1	30000	30.0	7.8	2.3	34	--	--
			10.7	32000	30.0	7.8	2.3	34	--	--
JUL 24, 75	1400	2	.3	6300	31.5	7.8	3.3	46	--	--
			3.0	9400	30.5	7.8	3.1	42	--	--
			4.6	13000	30.5	7.8	2.9	40	--	--
			6.1	23000	30.0	7.8	2.6	37	--	--
			7.6	26000	30.0	7.8	2.3	33	--	--
			9.1	31000	30.0	7.8	1.8	26	--	--
			10.7	31000	30.0	7.8	2.0	29	--	--
JUL 24, 75	1500	2	.3	6900	31.5	7.8	3.8	53	--	--
			1.5	6900	31.0	7.8	3.6	49	--	--
			3.0	8900	30.0	7.8	3.5	47	--	--
			4.6	14000	30.0	7.8	3.3	45	--	--
			6.1	21000	30.0	7.8	2.7	38	--	--
			7.6	27000	30.0	7.8	2.4	35	--	--
			9.1	30000	30.0	7.8	2.1	31	--	--
			10.7	31000	30.0	7.8	2.0	29	--	--
JUL 24, 75	1600	2	.3	6900	32.0	7.8	4.6	64	--	--
			1.5	6900	31.0	7.8	4.2	58	--	--
			3.0	12000	30.0	7.8	3.4	47	--	--
			4.6	14000	30.0	7.8	3.4	47	--	--
			6.1	22000	30.0	7.8	2.8	40	--	--
			7.6	26000	30.0	7.8	2.4	34	--	--
			9.1	31000	30.0	7.8	2.0	29	--	--
			10.7	32000	30.0	7.8	1.9	28	--	--
JUL 24, 75	1700	2	.3	7300	32.5	7.8	4.6	64	--	--
			1.5	7300	32.0	7.8	4.3	60	--	--
			3.0	8000	31.0	7.8	4.0	55	--	--
			4.6	13000	30.5	7.8	3.6	49	--	--
			6.1	18000	30.0	7.8	2.9	40	--	--
			7.6	26000	30.0	7.8	2.5	36	--	--
			9.1	28000	30.0	7.8	2.1	30	--	--
			10.7	31000	30.0	7.8	2.2	32	--	--
JUL 24, 75	1800	2	.3	7200	31.5	7.0	4.3	60	--	--
			1.5	7700	31.0	7.8	3.8	52	--	--
			3.0	11000	30.5	7.8	3.6	49	--	--
			4.6	17000	30.5	7.8	2.7	38	--	--
			6.1	22000	30.0	7.8	2.4	34	--	--
			7.6	24000	30.0	7.8	2.3	33	--	--
			9.1	28000	30.0	7.8	2.2	32	--	--
			10.7	28000	30.0	7.8	2.1	31	--	--
JUL 25, 75	1050	2	.3	6500	29.9	6.7	5.0	68	35.	--
			2.1	12000	29.7	6.8	5.2	71	20.	--
			4.6	25000	29.5	7.0	4.5	64	25.	--
			9.1	25000	29.5	7.0	4.1	59	20.	--
			14.9	25000	29.1	6.9	4.5	63	49.	--
					LINE 244					
OCT 08, 74	1710	1	.3	12000	24.6	8.2	9.6	117	10.	99
			.9	15000	23.7	7.8	8.3	101	10.	--
			1.8	18000	24.0	7.7	7.8	98	15.	--
JAN 21, 75	1005	1	.3	600	11.2	7.1	9.2	84	40.	26
			.9	490	11.2	7.1	9.2	84	60.	--
			2.1	950	11.9	7.0	8.4	78	30.	--
MAY 20, 75	1510	1	.3	300	25.9	7.1	7.8	95	50.	51

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 244 CONTINUED						
MAY 20, 75	1510	1	1.8	300	25.9	7.0	7.8	95.	50.	--
JUL 25, 75	1135	1	.3	5100	29.9	6.5	5.3	72	20.	116
			2.1	5500	29.9	6.9	5.8	78	30.	--
OCT 08, 74	1700	2	.3	14000	24.9	8.1	9.5	117	10.	107
			1.8	16000	24.0	7.7	7.7	95	15.	--
JAN 21, 75	1000	2	.3	200	12.1	6.8	8.9	82	35.	40
			2.1	210	12.0	6.8	8.9	82	45.	--
MAY 20, 75	1500	2	.3	400	25.0	6.9	7.4	88	80.	25
			2.1	400	25.0	6.9	7.4	88	80.	--
JUL 25, 75	1130	2	.3	5700	29.9	6.8	5.4	73	30.	127
			2.1	5500	29.8	6.6	5.6	76	25.	--
OCT 08, 74	1650	3	.3	15000	24.7	8.2	11.1	139	10.	102
			.9	16000	24.7	8.2	10.6	132	10.	--
			1.5	18000	24.2	8.0	8.1	101	20.	--
JAN 21, 75	0950	3	.3	210	11.9	6.9	9.2	85	70.	26
			2.1	270	11.8	6.9	9.2	84	62.	--
MAY 20, 75	1450	3	.3	150	24.0	6.8	7.2	85	70.	33
			1.8	150	24.0	6.8	7.2	85	75.	--
JUL 25, 75	1125	3	.3	6100	30.0	6.6	5.4	73	30.	71
			2.1	6100	30.0	7.1	5.2	70	70.	--
OCT 08, 74	1625	4	.3	14000	26.8	8.1	8.2	105	20.	58
			1.5	15000	25.9	8.1	7.3	94	25.	--
JAN 21, 75	0935	4	.3	590	11.0	6.9	9.1	82	72.	23
			.9	590	11.0	6.9	9.1	82	70.	--
APR 08, 75	1715	4	.3	3300	18.0	7.4	8.9	95	45.	38
			1.8	3200	18.0	7.4	8.8	94	40.	--
MAY 20, 75	1430	4	.3	240	26.0	7.0	7.3	89	130.	20
			1.5	240	26.0	7.0	7.2	88	130.	--
JUL 25, 75	1115	4	.3	7000	29.9	7.4	6.0	81	30.	--
			1.8	9100	29.9	6.5	4.9	66	50.	--
OCT 08, 74	1610	5	.3	15000	27.1	8.1	6.4	109	10.	71
			1.2	15000	26.6	8.1	8.2	105	15.	--
JAN 21, 75	0930	5	.3	840	11.0	7.0	9.0	81	70.	22
			.9	840	11.0	7.0	7.8	70	75.	--
MAY 20, 75	1410	5	.3	200	26.5	7.2	7.9	96	90.	29
			1.2	200	26.5	7.1	7.8	95	90.	--
JUL 25, 75	1105	5	.3	6500	30.0	6.6	5.4	73	20.	--
			.9	6200	30.0	6.6	5.2	70	20.	--
				LINE 274						
OCT 08, 74	1730	1	.3	12000	25.0	8.0	8.8	109	5.	94
			.9	12000	24.8	7.7	8.4	104	10.	--
			1.5	12000	23.4	7.5	7.6	92	10.	--
JAN 21, 75	1040	1	.3	600	11.8	7.3	8.7	80	90.	26
			.9	610	11.8	7.2	8.8	81	60.	--
			1.5	2200	12.0	7.1	8.3	78	125.	--
MAY 20, 75	1330	1	.3	450	25.1	7.2	7.8	93	45.	67

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 274 CONTINUED					
MAY 20, 75	1330	1	1.8	450	25.1	7.2	7.9	94	45.	--
JUL 25, 75	1230	1	.3	5000	29.1	6.5	5.4	70	10.	104
			2.4	5800	29.1	6.5	6.0	79	5.	--
OCT 08, 74	1740	2	.3	9700	24.4	8.3	9.7	118	5.	84
			.9	12000	23.4	8.2	8.8	106	10.	--
			2.1	18000	23.0	7.3	6.4	78	10.	--
JAN 21, 75	1045	2	.3	400	11.0	7.1	9.7	87	110.	25
			1.2	380	11.0	7.2	9.8	88	100.	--
			2.4	390	11.0	7.3	9.6	86	105.	--
APR 08, 75	1620	2	.3	840	18.3	7.6	9.2	97	35.	46
			1.2	840	18.3	7.6	9.2	97	45.	--
			2.4	840	18.3	7.5	9.0	95	45.	--
MAY 20, 75	1340	2	.3	260	24.7	7.2	8.4	100	45.	74
			2.4	260	24.9	7.2	8.1	96	40.	--
JUL 25, 75	1215	2	.3	5800	29.0	6.5	5.6	74	20.	143
			2.7	5800	29.0	6.4	5.4	71	225.	--
JUL 25, 75	1200	2	.3	5100	29.0	6.4	5.8	76	20.	90
			2.4	5100	29.0	6.4	5.3	70	25.	--
OCT 08, 74	1805	3	.3	12000	23.9	8.2	9.1	111	0.	137
			.9	14000	23.3	8.2	9.1	108	5.	--
			2.1	15000	23.5	8.1	8.1	99	5.	--
JAN 21, 75	1100	3	.3	460	11.2	7.0	9.5	86	80.	22
			2.1	460	11.1	7.0	9.9	89	80.	--
MAY 20, 75	1350	3	.5	100	24.9	7.1	7.9	94	30.	62
			2.4	100	24.9	7.1	8.0	95	45.	--
JUL 25, 75	1205	3	.3	5400	29.0	6.3	5.3	70	20.	120
			2.4	5900	29.0	6.1	5.2	68	10.	--
OCT 08, 74	1815	4	.3	13000	25.0	8.3	9.7	120	0.	122
			.9	13000	24.9	8.3	9.5	117	0.	--
			1.8	12000	24.3	8.1	8.6	105	5.	--
JAN 21, 75	1115	4	.3	1000	10.5	7.0	9.5	85	30.	51
			1.5	1100	10.8	7.0	9.4	85	35.	--
MAY 20, 75	1400	4	.3	100	25.6	7.1	7.9	90	40.	53
			1.8	200	25.5	7.1	7.5	90	40.	--
					LINE 300					
OCT 08, 74	1830	1	.3	12000	24.7	8.1	9.4	115	0.	--
			.9	11000	24.7	8.1	9.3	113	0.	--
			1.8	11000	24.7	8.1	9.3	113	0.	--
OCT 09, 74	1010	1	.3	20000	23.0	7.9	7.6	94	10.	122
			.9	23000	23.0	7.9	7.4	91	10.	--
			2.1	24000	23.0	7.9	7.6	94	5.	--
JAN 21, 75	1145	1	.3	4800	11.9	7.2	8.7	81	85.	22
			2.1	4600	11.9	7.2	8.8	82	90.	--
MAY 20, 75	1240	1	.3	400	25.1	7.6	7.9	94	50.	54
			1.8	500	25.1	7.6	7.9	94	50.	--
JUL 25, 75	1030	1	.3	12000	28.0	--	6.8	89	20.	90
			1.8	24000	27.7	--	4.7	64	20.	--
OCT 09, 74	1030	2	.3	17000	23.0	7.9	7.9	96	5.	91

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 300 CONTINUED						
OCT 09, 74	1030	2	.9	19000	23.0	7.9	7.9	96	10.	--
			2.1	23000	23.0	7.9	7.8	95	10.	--
JAN 21, 75	1155	2	.3	210	11.0	7.2	9.5	86	120.	18
			.9	170	11.0	7.2	9.6	86	160.	--
			2.1	380	11.1	7.4	9.6	86	140.	--
APR 08, 75	1050	2	.3	4400	16.0	--	10.5	106	60.	--
			1.5	4600	16.0	--	10.5	106	60.	--
			4.0	4800	16.0	--	10.4	105	60.	--
MAY 20, 75	1245	2	.3	1600	25.0	7.4	7.5	89	50.	33
			2.4	3100	24.2	7.0	6.3	75	90.	--
JUL 25, 75	1035	2	.3	16000	28.4	--	6.4	85	20.	95
			2.3	22000	28.1	--	4.3	59	20.	--
OCT 09, 74	1045	3	.3	14000	23.0	7.8	8.3	99	0.	145
			.9	13000	23.0	7.8	8.1	96	0.	--
			1.5	23000	23.0	7.9	7.8	96	5.	--
JAN 21, 75	1205	3	.3	350	11.9	7.1	9.5	88	65.	26
			1.8	360	11.7	7.0	9.6	88	70.	--
MAY 20, 75	1320	3	.3	300	26.0	7.6	8.3	101	50.	61
			1.8	300	25.9	7.6	8.3	101	50.	--
JUL 25, 75	1045	3	.3	9800	28.9	--	7.1	93	25.	96
			1.5	20000	28.7	--	5.7	79	20.	--
				LINE 308						
JUL 21, 75	1900	2	.3	7900	29.0	8.4	9.8	128	0.	--
			4.6	40000	28.0	7.9	7.9	116	--	--
			10.1	40000	28.0	7.9	7.2	105	100.	--
JUL 21, 75	2100	2	.3	19000	28.0	7.9	8.6	112	45.	--
			4.6	12000	28.0	7.7	8.0	105	45.	--
			10.7	12000	28.7	7.8	7.5	100	100.	--
JUL 21, 75	2300	2	.3	5700	28.0	7.5	7.6	99	70.	--
			4.6	7100	28.0	7.4	7.6	99	70.	--
			9.4	7100	28.0	7.4	7.6	99	70.	--
JUL 22, 75	0100	2	.3	4500	28.0	7.2	7.7	99	35.	--
			4.6	6000	28.0	7.2	7.6	99	50.	--
			9.1	16000	27.0	7.2	8.4	109	70.	--
JUL 22, 75	0300	2	.3	10000	28.0	7.2	7.6	99	80.	--
			4.6	17000	28.0	7.2	7.8	105	105.	--
			10.4	19000	27.0	7.2	8.3	109	150.	--
JUL 22, 75	0500	2	.3	22000	28.0	7.1	6.7	92	35.	--
			4.6	22000	28.0	7.1	6.4	88	95.	--
			7.6	21000	28.0	7.2	6.4	88	150.	--
JUL 22, 75	0700	2	.3	19000	28.2	7.2	6.4	86	--	--
			3.0	26000	28.2	7.2	6.1	85	--	--
			6.1	25000	28.2	7.1	6.2	86	--	--
			9.1	34000	28.2	7.2	6.0	87	--	--
JUL 22, 75	0900	2	.3	26000	28.2	7.1	5.3	73	25.	--
			3.0	29000	28.2	7.1	5.6	79	25.	--
			6.1	39000	28.2	7.1	5.1	75	25.	--
			9.1	39100	28.2	7.1	5.7	84	30.	--
JUL 22, 75	1100	2	.3	24000	28.2	7.1	5.0	68	10.	--
			3.0	24000	28.2	7.1	5.0	68	10.	--

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 308 CONTINUED						
JUL 22, 75	1100	2	6.1	39000	28.2	7.1	4.5	66	30.	--
			9.1	40000	28.2	7.1	4.5	66	30.	--
JUL 22, 75	1300	2	.3	19000	28.2	7.1	5.5	74	10.	--
			3.0	28000	28.2	7.1	5.0	70	10.	--
			6.1	35000	28.2	7.1	4.6	67	20.	--
			9.1	39000	28.2	7.1	5.3	78	30.	--
JUL 22, 75	1500	2	.3	19000	28.2	7.1	5.5	74	60.	--
			3.0	24000	28.2	7.2	5.2	71	30.	--
			6.1	28000	28.2	7.2	5.0	70	35.	--
			9.1	40000	28.2	7.2	4.9	72	70.	--
JUL 22, 75	1700	2	.3	18000	28.2	7.1	5.3	72	40.	--
			3.0	32000	28.2	7.1	4.7	67	30.	--
			6.1	37000	28.2	7.1	4.6	67	40.	--
			9.1	41000	28.2	7.1	4.7	69	70.	--
JUL 22, 75	1900	2	.3	16000	28.0	7.1	6.6	88	55.	--
			4.6	34000	28.0	7.1	4.8	70	55.	--
			9.8	41000	27.0	7.1	4.8	70	55.	--
JUL 22, 75	2100	2	.3	11000	28.0	7.1	7.0	91	115.	--
			4.6	12000	28.0	7.1	6.9	91	120.	--
			8.8	12000	27.0	7.1	6.4	82	120.	--
JUL 22, 75	2300	2	.3	6900	28.0	7.1	6.0	78	130.	--
			5.2	7000	28.0	7.1	5.8	75	110.	--
			10.1	8500	27.0	7.1	6.1	77	110.	--
JUL 23, 75	0100	2	.3	4300	27.0	7.1	7.9	99	110.	--
			4.9	5000	27.0	7.1	7.9	99	120.	--
			9.8	6400	28.9	7.1	8.6	112	120.	--
JUL 23, 75	0300	2	.3	5600	27.0	7.0	7.4	94	100.	--
			3.0	13000	28.0	7.0	7.1	93	100.	--
			7.0	16000	27.6	6.9	7.4	96	110.	--
JUL 23, 75	0500	2	.3	12000	28.0	7.0	7.5	99	140.	--
			4.6	26000	28.0	7.0	6.7	93	120.	--
			9.1	26000	27.0	7.1	5.1	69	120.	--
JUL 23, 75	0700	2	.3	19000	28.2	7.3	5.1	69	10.	--
			3.0	19000	28.1	7.3	5.3	72	10.	--
			6.1	18000	28.1	7.3	5.3	72	10.	--
			9.1	22000	28.2	7.3	5.2	71	30.	--
JUL 23, 75	1215	2	.3	22000	28.2	7.3	4.8	66	20.	--
			3.0	22000	28.2	7.3	4.8	66	20.	--
			6.1	21000	28.2	7.3	4.6	63	30.	--
			9.1	37000	28.2	7.3	4.6	67	60.	--
JUL 23, 75	1815	2	.3	29000	28.2	7.3	4.2	59	10.	--
			3.0	30000	28.2	7.3	4.1	59	10.	--
			6.1	29000	28.2	7.3	4.4	62	20.	--
			9.1	40000	28.2	7.3	3.9	57	50.	--
JUL 23, 75	2400	2	.3	8700	27.0	--	5.8	73	45.	--
			4.9	7900	27.0	--	6.0	76	45.	--
			9.8	9300	27.0	--	5.6	71	70.	--
JUL 24, 75	0600	2	.3	14000	27.0	--	5.5	71	20.	--
			4.0	23000	27.0	--	4.7	63	30.	--
			8.2	32000	27.0	--	5.1	71	50.	--
JUL 24, 75	1215	2	.3	24000	28.2	7.2	3.4	47	10.	--
			3.0	33000	28.2	7.2	3.8	55	10.	--
			6.1	40000	28.2	7.2	3.5	52	30.	--
			9.1	40000	28.2	7.2	3.5	52	20.	--

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 308 CONTINUED						
JUL 24, 75	1815	2	.3	21000	28.2	7.4	4.2	58	10.	--
			3.0	25000	28.2	7.4	3.9	54	15.	--
			6.1	40000	28.2	7.4	3.5	52	20.	--
			9.1	40000	28.2	7.6	4.1	60	30.	--
				LINE 323						
OCT 08, 74	1710	2	.3	17000	26.0	8.2	7.7	100	20.	81
			3.0	17000	25.5	8.0	7.7	99	20.	--
			6.1	21000	25.2	7.9	6.2	79	20.	--
			13.1	31000	23.9	7.9	5.7	75	90.	--
JAN 21, 75	0910	2	.3	640	11.8	7.0	8.7	80	105.	20
			1.5	650	11.8	7.1	8.6	79	120.	--
			3.0	750	11.8	7.2	8.6	79	110.	--
			6.1	1400	11.9	7.3	8.4	78	80.	--
			9.1	12500	12.2	7.3	7.2	69	130.	--
			10.7	32000	13.2	7.8	6.7	71	90.	--
			13.4	37000	13.9	7.8	6.5	72	150.	--
APR 08, 75	1000	2	.3	4400	17.8	--	9.4	100	50.	37
			1.5	4500	17.8	--	9.4	100	50.	--
			3.0	5500	17.7	--	9.0	96	45.	--
			4.6	9200	17.5	--	8.5	91	40.	--
			6.1	14000	17.4	--	8.1	88	25.	--
			9.1	25000	17.0	--	7.9	89	15.	--
			12.2	28000	16.8	--	8.0	91	25.	--
MAY 20, 75	1415	2	.3	100	24.1	6.8	5.8	68	80.	28
			3.0	100	24.0	6.8	5.7	67	80.	--
			6.1	200	24.0	7.0	5.5	65	80.	--
			12.2	200	24.1	7.0	3.7	44	80.	--
JUL 22, 75	0045	2	.3	7000	30.0	7.5	6.0	81	60.	--
			1.5	7500	29.5	7.3	5.7	77	40.	--
			3.0	7500	30.0	7.3	5.9	80	--	--
			6.1	8500	30.0	7.3	5.0	68	70.	--
			9.1	17000	29.5	7.4	3.8	54	65.	--
			12.5	21000	29.5	7.5	4.1	58	60.	--
JUL 22, 75	0815	2	.3	10000	29.9	7.3	4.9	67	--	--
			3.0	13000	29.9	7.3	4.6	64	--	--
			6.1	19000	29.7	7.5	3.7	52	--	--
			9.1	25000	29.2	7.6	3.3	47	--	--
			14.6	25000	29.2	7.6	3.1	44	--	--
JUL 22, 75	0950	2	.3	11000	29.9	7.3	5.4	75	95.	--
			3.0	13000	29.9	7.4	5.0	69	75.	--
			6.1	21000	29.5	7.6	4.4	63	70.	--
			9.1	21000	29.2	7.7	3.7	53	60.	--
			13.7	27000	29.2	7.6	3.4	49	200.	--
JUL 22, 75	1210	2	.3	12000	30.2	7.4	5.5	76	45.	--
			3.0	19000	30.1	7.4	4.9	70	35.	--
			6.1	19000	29.8	7.6	4.4	63	40.	--
			9.1	25000	29.7	7.7	3.8	55	--	--
			12.8	27000	29.7	7.6	3.8	56	--	--
JUL 22, 75	1355	2	.3	13000	29.9	7.5	5.6	77	95.	--
			3.0	19000	29.9	7.6	5.0	71	95.	--
			6.1	21000	29.5	7.7	4.3	61	90.	--
			9.1	26000	29.2	7.8	3.8	55	90.	--
			14.6	22000	29.2	7.7	3.7	53	105.	--
JUL 22, 75	1550	2	.3	13000	30.0	7.5	6.1	85	40.	--
			3.0	15000	29.9	7.5	5.1	71	30.	--
			6.1	21000	29.7	7.7	4.4	63	30.	--
			9.1	27000	29.4	7.7	3.9	57	40.	--

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 323 CONTINUED						
JUL 22, 75	1550	2	13.7	27000	29.4	7.7	3.9	57	140.	--
JUL 22, 75	1750	2	.3	13000	30.0	7.5	5.9	82	--	--
			3.0	15000	29.9	7.5	5.1	71	--	--
			6.1	23000	29.4	7.7	4.4	63	--	--
			9.1	27000	29.3	7.8	3.8	56	--	--
			13.4	27000	29.3	7.7	4.1	60	--	--
JUL 22, 75	0550	2	.3	8000	29.5	7.2	5.3	72	30.	--
			1.5	8500	29.5	7.3	5.3	72	50.	--
			3.0	8500	30.0	7.3	5.0	68	40.	--
			6.1	16000	29.4	7.5	3.9	55	50.	--
			9.1	22000	29.0	7.5	3.3	47	60.	--
			13.4	23000	29.0	7.6	3.4	49	140.	--
JUL 23, 75	1200	2	.3	11000	30.0	7.3	5.0	69	--	--
			3.0	14000	30.0	7.4	4.5	62	--	--
			6.1	20000	30.0	7.5	3.9	56	--	--
			9.1	28000	29.9	7.7	3.0	45	--	--
			14.0	30000	29.8	7.7	3.3	49	--	--
JUL 23, 75	1800	2	.3	15000	30.2	7.5	5.6	78	--	--
			3.0	19000	30.0	7.4	4.8	69	--	--
			6.1	21000	29.9	7.6	3.9	57	--	--
			9.1	25000	29.9	7.7	3.2	46	--	--
			14.0	24000	29.9	7.5	2.3	33	--	--
JUL 23, 75	0045	2	.3	7500	29.5	7.2	5.8	78	--	--
			1.5	8500	29.5	7.2	5.6	76	--	--
			3.0	9500	30.0	7.2	5.1	70	--	--
			6.1	9500	30.0	7.2	5.0	68	--	--
			9.1	12000	30.0	7.3	4.3	60	--	--
			12.2	19000	30.8	7.6	3.6	53	--	--
JUL 23, 75	0545	2	.3	9000	29.4	7.1	4.8	65	--	--
			1.5	9000	29.5	7.1	4.8	65	--	--
			3.0	11000	29.8	7.2	4.6	64	--	--
			6.1	14000	29.8	7.3	4.1	57	--	--
			9.1	23000	29.2	7.5	3.0	43	--	--
			11.6	25000	29.2	7.5	3.1	44	--	--
JUL 24, 75	0030	2	.3	9500	30.0	7.1	4.7	64	--	--
			1.5	9500	30.0	7.1	3.7	51	--	--
			3.0	9500	30.0	7.1	4.7	64	--	--
			6.1	9500	30.0	7.2	4.7	64	--	--
			10.7	17000	29.8	7.3	4.0	56	--	--
JUL 24, 75	0550	2	1.5	--	30.0	7.1	--	--	--	--
			3.0	9500	30.0	7.2	5.4	74	--	--
			6.1	15000	29.8	7.3	4.4	61	--	--
			9.1	22000	29.5	7.6	3.4	49	--	--
			13.4	25000	31.2	7.5	3.3	49	--	--
JUL 24, 75	1200	2	.3	11000	30.5	7.2	5.2	72	--	--
			3.0	13000	30.3	7.3	4.9	68	--	--
			6.1	16000	30.2	7.4	4.5	62	--	--
			9.1	28000	30.0	7.7	3.3	49	--	--
			13.7	28000	30.0	7.7	3.2	48	--	--
JUL 24, 75	1800	2	.3	11000	30.6	8.2	5.6	78	--	--
			3.0	15000	30.5	8.2	4.7	66	--	--
			6.1	27000	30.1	8.2	4.0	59	--	--
			9.1	27000	30.0	8.2	3.6	53	--	--
			13.4	29000	30.0	8.2	3.6	54	--	--
JUL 25, 75	1115	2	.3	8500	30.5	--	4.6	64	--	--
			3.0	11000	30.1	--	4.2	58	--	--
			6.1	19000	30.0	--	3.5	51	--	--
			9.1	25000	30.0	--	3.5	51	--	--

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 323 CONTINUED						
JUL 25, 75	1115	2	13.1	27000	30.0	--	3.4	50	--	--
				LINE 339						
OCT 08, 74	1735	2	.3	25000	24.0	8.0	7.1	91	10.	91
			3.0	26000	24.0	8.0	7.0	90	10.	--
			6.1	28000	24.0	8.0	6.7	87	15.	--
			11.6	45000	23.5	8.0	5.3	74	30.	--
JAN 21, 75	1200	2	.3	4000	12.7	7.1	8.9	84	90.	27
			1.5	4000	12.7	7.1	8.9	84	90.	--
			3.0	4000	12.6	7.2	8.9	84	90.	--
			4.6	7000	12.6	7.4	8.6	82	50.	--
			6.1	12000	12.9	7.5	8.4	82	80.	--
			7.6	29000	14.1	7.9	7.4	80	50.	--
			9.1	34000	14.9	8.0	7.0	80	40.	--
			12.2	43000	15.0	8.0	7.1	84	230.	--
MAY 20, 75	1200	2	.3	1300	24.0	6.8	5.7	67	90.	25
			3.0	1800	24.0	6.9	5.3	62	90.	--
			6.1	8500	24.0	7.0	4.6	55	85.	--
			9.1	23000	24.1	7.4	3.1	39	50.	--
			11.9	38000	24.9	7.8	1.3	18	120.	--
				LINE 353						
OCT 08, 74	1750	2	.3	22000	24.0	8.0	7.7	97	45.	33
			3.0	22000	24.0	8.0	7.8	99	50.	--
			4.9	22000	24.0	8.0	8.0	101	80.	--
JAN 21, 75	1220	2	.3	3500	13.0	7.0	8.0	76	150.	27
			1.5	4100	12.8	7.0	8.3	79	150.	--
			3.0	4700	12.6	7.0	8.7	82	120.	--
			5.2	4700	12.6	7.1	8.7	82	140.	--
MAY 20, 75	1140	2	.3	1800	24.0	6.7	5.4	64	90.	23
			3.0	1800	24.0	6.7	5.4	64	115.	--
			4.9	1800	24.1	6.7	5.4	64	190.	--
				LINE 369						
OCT 08, 74	1815	2	.3	23000	24.0	8.2	8.0	101	10.	107
			1.5	25000	24.0	8.2	7.8	100	10.	--
			3.0	26000	25.0	8.2	7.5	97	10.	--
			6.1	31000	23.0	8.1	6.3	81	10.	--
			12.2	38000	23.0	8.2	6.2	83	110.	--
JAN 21, 75	1120	2	.3	6300	12.5	7.2	8.8	84	85.	46
			1.5	6600	12.5	7.3	8.8	84	85.	--
			3.0	7700	12.6	7.4	8.6	82	65.	--
			4.6	22000	13.5	8.0	8.2	85	50.	--
			6.1	25000	14.4	8.1	8.3	88	55.	--
			13.1	31000	15.0	8.1	7.9	88	160.	--
APR 08, 75	1020	2	.3	11000	16.0	--	8.8	91	--	--
			1.5	11000	16.0	--	8.8	91	--	--
			6.1	14000	16.0	--	8.7	91	20.	--
			9.1	26000	15.9	--	8.8	97	40.	--
			12.5	30000	16.0	--	8.9	100	10.	--
MAY 20, 75	1220	2	.3	2000	24.0	6.9	5.9	70	70.	18
			1.5	2000	24.0	6.9	5.3	63	--	--
			3.0	4000	24.0	7.1	5.2	62	60.	--
			6.1	30000	24.5	7.9	3.2	42	30.	--
			12.2	43000	24.8	8.0	3.9	55	30.	--
JUL 21, 75	1815	2	.3	17000	29.0	8.3	9.8	134	30.	--

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

LINE 369 CONTINUED

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
JUL 21, 75	1815	2	4.6	35000	28.0	8.0	7.8	113	30.	--
			10.1	42000	28.0	7.8	5.5	82	30.	--
JUL 21, 75	2000	2	.3	15000	29.0	8.1	8.4	113	5.	--
			4.6	35000	28.0	8.0	6.8	99	10.	--
			12.2	39000	28.0	7.9	6.7	98	10.	--
JUL 21, 75	2200	2	.3	24000	28.0	7.5	7.2	98	20.	--
			4.6	24000	28.0	7.5	6.4	88	10.	--
			12.2	24000	28.0	7.5	6.6	90	0.	--
JUL 21, 75	2400	2	.3	20000	28.0	7.3	6.2	85	20.	--
			4.6	30000	28.0	7.3	5.9	84	20.	--
			12.2	38000	28.0	7.3	5.6	82	20.	--
JUL 22, 75	0600	2	.3	15000	28.0	7.1	6.9	92	45.	--
			6.1	25000	28.0	7.1	6.1	85	95.	--
			12.2	37000	27.0	7.1	6.8	96	110.	--
JUL 22, 75	0800	2	.3	22000	28.2	7.1	5.6	77	10.	--
			3.0	40000	28.2	7.1	4.7	69	10.	--
			6.1	35000	28.2	7.1	4.6	67	35.	--
			9.1	42000	28.2	7.1	4.6	69	80.	--
			12.8	42000	28.2	7.1	4.6	69	275.	--
JUL 22, 75	1000	2	.3	30000	28.2	7.1	5.1	73	10.	--
			3.0	35000	28.2	7.1	4.8	70	10.	--
			6.1	41000	28.2	7.1	5.1	75	10.	--
			9.1	41000	28.2	7.1	4.9	72	20.	--
			12.2	42000	28.2	7.1	4.6	69	40.	--
JUL 22, 75	1200	2	.3	21000	28.2	7.1	5.4	74	5.	--
			3.0	36000	28.2	7.1	4.6	67	5.	--
			6.1	39000	28.2	7.1	4.5	66	5.	--
			9.1	39000	28.2	7.1	4.7	69	5.	--
			12.2	42000	28.2	7.1	4.6	69	40.	--
JUL 22, 75	1400	2	.3	21000	28.1	7.2	5.6	77	50.	--
			3.0	38000	28.2	7.1	4.5	66	50.	--
			6.1	46000	28.1	7.1	4.3	65	50.	--
			10.7	42000	28.2	7.1	5.0	75	60.	--
JUL 22, 75	1600	2	.3	22000	28.2	7.1	5.0	68	50.	--
			3.0	28000	28.2	7.1	5.0	70	50.	--
			6.1	42000	28.2	7.1	4.6	69	30.	--
			11.0	42000	28.2	7.1	4.6	69	70.	--
JUL 22, 75	1800	2	.3	26000	28.2	7.1	5.3	74	60.	--
			3.0	16000	28.2	7.1	5.4	72	50.	--
			6.1	26000	28.2	7.1	5.1	71	50.	--
			11.0	42000	28.2	7.1	5.2	78	70.	--
JUL 22, 75	2000	2	.3	19000	28.0	7.1	5.9	60	65.	--
			10.7	42000	27.0	7.1	5.5	81	60.	--
JUL 22, 75	2200	2	.3	20000	28.0	7.1	10.8	146	85.	--
			6.1	18000	27.0	7.1	10.9	143	85.	--
			12.2	38000	27.0	7.1	5.7	81	85.	--
JUL 22, 75	2400	2	.3	22000	28.0	7.1	9.7	133	80.	--
			6.1	22000	27.0	7.1	10.4	139	80.	--
			12.2	38000	27.0	7.1	9.9	142	85.	--
JUL 22, 75	0200	2	.3	19000	28.0	7.2	6.5	88	--	--
			6.1	30000	27.0	7.2	6.7	93	--	--
			11.6	30000	27.0	7.2	7.7	107	--	--
JUL 22, 75	0410	2	.3	25000	28.0	7.2	6.6	92	40.	--
			6.1	29000	28.0	7.2	6.2	87	120.	--

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 369 CONTINUED						
JUL 22, 75	0410	2	11.9	25000	28.0	7.2	5.1	71	100.	--
JUL 23, 75	0200	2	.3	22000	28.0	7.1	6.2	85	100.	--
			6.1	28000	27.0	7.1	6.6	90	115.	--
			12.2	38000	27.0	7.1	6.5	93	120.	--
JUL 23, 75	0400	2	.3	6500	27.0	7.1	6.6	84	115.	--
			5.8	33000	27.0	7.1	4.8	68	115.	--
			11.6	38000	27.0	7.0	6.1	87	400.	--
JUL 23, 75	0600	2	.3	13000	27.0	7.3	5.2	68	120.	--
			6.1	29000	27.0	7.1	4.9	67	140.	--
			12.2	32000	27.0	7.0	5.1	71	140.	--
JUL 23, 75	0800	2	.3	22000	28.2	7.3	4.6	63	110.	--
			3.0	19000	28.2	7.3	4.9	66	110.	--
			6.1	33000	28.1	7.3	4.4	64	130.	--
			9.1	33000	28.1	7.3	4.4	64	160.	--
			12.2	36000	28.1	7.3	4.8	70	400.	--
JUL 23, 75	1200	2	.3	22000	28.2	7.3	4.6	63	20.	--
			3.0	40000	28.2	7.3	4.3	63	10.	--
			6.1	43000	28.2	7.3	4.0	60	10.	--
			9.1	36000	28.2	7.3	4.6	67	10.	--
			12.2	40000	28.1	7.3	4.3	63	60.	--
JUL 23, 75	1800	2	.3	28000	28.2	7.3	4.4	62	0.	--
			3.0	38000	28.2	7.3	4.1	60	0.	--
			6.1	44000	28.2	7.3	3.9	59	5.	--
			9.1	41000	28.2	7.3	4.1	60	20.	--
			12.2	41000	28.2	7.3	4.1	60	120.	--
JUL 23, 75	2400	2	.3	22000	28.0	--	5.1	70	50.	--
			6.1	26000	27.0	--	4.3	59	40.	--
			12.2	35000	27.0	--	5.7	80	30.	--
JUL 24, 75	0600	2	.3	14000	27.0	--	5.0	64	10.	--
			11.6	37000	27.0	--	5.0	70	50.	--
JUL 24, 75	1200	2	.3	24000	28.2	7.2	4.4	60	5.	--
			3.0	32000	28.2	7.2	3.7	53	10.	--
			6.1	40000	28.2	7.2	3.3	49	20.	--
			9.1	40000	28.2	7.2	3.3	49	30.	--
			12.2	41000	28.2	7.2	3.3	49	40.	--
JUL 24, 75	1800	2	.3	23000	28.2	7.5	4.4	60	20.	--
			3.0	38000	28.2	7.5	3.5	51	15.	--
			6.1	40000	28.2	7.4	3.5	51	30.	--
			9.1	34000	28.2	7.4	3.6	52	50.	--
			12.2	41000	28.2	7.5	3.5	51	60.	--
JUL 25, 75	1300	2	.3	16000	29.9	--	6.5	89	30.	76
			3.0	25000	29.5	--	4.8	69	20.	--
			6.1	40000	29.3	--	2.8	42	30.	--
			9.1	43000	29.8	--	2.5	39	40.	--
			12.8	44000	29.8	--	2.0	32	85.	--
				LINE 377						
OCT 09, 74	1115	2	.3	26000	23.0	8.0	8.7	109	0.	107
			1.5	30000	23.0	8.0	8.1	104	5.	--
			3.0	33000	23.0	8.0	8.0	104	5.	--
			6.1	38000	23.0	8.0	8.2	109	0.	--
			9.1	38000	23.0	8.0	8.2	109	0.	--
			13.1	37000	23.0	8.0	8.5	112	5.	--
JAN 21, 75	1055	2	.3	12000	12.4	7.6	8.2	80	80.	32
			1.5	5500	12.1	7.5	8.4	79	100.	--

TABLE 1A--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 377 CONTINUED						
JAN 21, 75	1055	2	3.0	41000	12.8	8.0	6.6	73	140.	--
			6.1	41000	14.7	8.1	6.6	76	140.	--
			9.1	42000	14.8	8.1	6.7	79	250.	--
			13.7	42000	15.0	8.1	7.3	86	240.	--
APR 08, 75	1000	2	.5	19000	15.9	--	9.3	99	20.	--
			1.5	20000	15.9	--	9.3	99	50.	--
			6.1	26000	16.0	--	8.8	97	100.	--
			9.1	29000	16.0	--	8.8	98	150.	--
			13.4	30000	16.0	--	8.3	93	190.	--
JUL 25, 75	1220	2	.3	18000	30.6	--	6.6	93	25.	109
			3.0	40000	29.7	--	3.9	60	20.	--
			6.1	45000	29.1	--	2.2	34	30.	--
			9.1	47000	29.1	--	1.7	27	15.	--
			12.2	47000	29.1	--	1.7	27	20.	--
				LINE 903						
OCT 09, 74	1225	1	.3	37000	23.9	8.1	9.7	129	0.	221
			3.0	37000	23.9	8.1	9.7	129	5.	--
			7.3	39000	23.5	8.0	8.0	108	40.	--
JAN 21, 75	1030	1	.6	26000	12.8	8.2	9.4	102	40.	81
			5.5	40000	14.0	8.2	8.7	104	40.	--
			10.7	43000	14.8	8.2	8.0	98	160.	--
JUL 25, 75	1150	1	.3	37000	30.0	--	7.2	109	30.	126
			3.0	44000	28.8	--	5.0	78	35.	--
			7.0	48000	28.3	--	3.0	46	50.	--
				LINE 910						
OCT 09, 74	1155	1	.3	45000	24.3	8.0	8.1	114	0.	356
			3.0	45000	24.2	8.0	7.6	107	0.	--
			6.1	45000	24.2	8.0	7.2	101	5.	--
			11.6	46000	24.4	8.0	6.7	94	15.	--
				LINE 925						
OCT 09, 74	1100	1	.3	48000	24.5	8.0	7.2	102	0.	856
			3.0	48000	24.5	8.0	7.4	106	0.	--
			6.1	50000	24.5	8.0	7.2	104	20.	--
			9.1	50000	24.6	8.0	7.2	104	10.	--
			12.8	50000	24.7	8.0	6.8	98	30.	--

TABLE 18--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 15						
OCT 08, 74	1345	2	.3	--	.00	.00	.00	--	.04	1.9	4	7.2
JAN 20, 75	1640	2	.3	--	.13	.03	.01	--	.03	.9	--	--
APR 07, 75	1625	2	.3	8.3	.09	.00	.00	--	.04	.7	4	6.6
MAY 20, 75	1600	2	.3	8.0	.10	.01	.00	--	.03	.8	--	--
JUL 25, 75	0950	2	.3	10.0	.10	.05	.00	--	.05	1.5	0	5.8
						LINE 82						
JUL 21, 75	1800	2	3.7	--	.06	.13	.01	--	.04	--	--	9.4
JUL 21, 75	2400	2	.3	--	.05	.07	.01	--	.05	--	--	9.6
JUL 22, 75	0600	2	.3	--	.04	.05	.01	--	.03	--	--	10.0
JUL 22, 75	2015	2	1.5	--	.09	.08	.01	--	.03	--	--	9.2
JUL 23, 75	1200	2	.3	--	.09	.08	.01	--	.03	--	--	5.0
JUL 23, 75	1800	2	.3	--	.10	.08	.01	--	.03	--	--	5.8
JUL 24, 75	0020	2	.3	--	.10	.10	.02	--	.04	--	--	6.8
JUL 24, 75	0610	2	.3	--	.10	.05	.01	--	.04	--	--	9.0
JUL 24, 75	1200	2	.3	--	.14	.12	.03	--	.05	--	--	--
JUL 24, 75	1800	2	.3	--	.12	.12	.02	--	.05	--	--	7.4
						LINE 87						
OCT 08, 74	1535	2	.3	--	.10	.05	.06	--	.06	1.1	5	8.2
			6.1	--	.09	.04	.04	--	.06	.7	0	4.6
JAN 20, 75	1750	2	.3	--	.14	.01	.00	--	.03	1.9	--	--
			9.8	--	.14	.00	.01	--	.04	1.5	--	--
APR 07, 75	1755	2	.3	--	.10	.01	.01	--	.05	1.6	--	6.9
			11.3	--	.08	.17	.01	--	.16	1.8	0	5.3
MAY 20, 75	1730	2	.3	--	.14	.03	.01	--	.03	1.0	--	--
			10.1	--	.14	.03	.01	--	.04	1.2	--	--
JUL 22, 75	1015	2	3.0	--	.07	.11	.01	--	.05	--	--	8.4
			10.1	--	.07	.21	.02	--	.19	--	--	1.4
JUL 22, 75	2000	2	.3	--	.15	.11	.02	--	.06	--	--	8.4
			10.4	--	.09	.16	.03	--	.07	--	--	8.6
JUL 22, 75	2215	2	.3	--	.21	.14	.04	--	.06	--	--	7.8
			10.4	--	.09	.18	.03	--	.09	--	--	5.4
JUL 22, 75	2400	2	.3	--	.09	.09	.01	--	.04	--	--	8.2
			10.4	--	.10	.19	.02	--	.08	--	--	7.0
JUL 22, 75	1900	2	.3	--	.11	.14	.03	--	.08	--	--	9.2
			10.1	--	.08	.19	.01	--	.07	--	--	6.8
JUL 22, 75	0600	2	.3	--	.04	.09	.00	--	.03	--	--	6.2
			9.8	--	.07	.19	.01	--	.05	--	--	6.8
JUL 22, 75	0815	2	.3	--	.06	.07	.00	--	.05	--	--	9.6

TABLE 18--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
					LINE 67 CONTINUED							
JUL 22, 75	0815	2	9.4	--	.06	.18	.03	--	.06	--	--	6.6
JUL 22, 75	1810	2	.3	--	.05	.07	.01	--	.03	--	--	8.6
			10.4	--	.08	.17	.02	--	.06	--	--	8.2
JUL 22, 75	0100	2	.3	--	.06	.08	.00	--	.05	--	--	7.6
			10.1	--	.06	.19	.02	--	.07	--	--	8.6
JUL 22, 75	1220	2	.3	--	.08	.10	.00	--	.05	--	--	8.2
			9.8	--	.08	.34	.01	--	.07	--	--	7.0
JUL 22, 75	1415	2	.3	--	.05	.32	.01	--	.03	--	--	8.0
			10.1	--	.08	.23	.02	--	.04	--	--	9.6
JUL 22, 75	1615	2	.3	--	.06	.08	.00	--	.05	--	--	8.2
			9.8	--	.08	.18	.01	--	.05	--	--	8.0
JUL 23, 75	0210	2	.3	--	.10	.12	.01	--	.06	--	--	8.0
			10.4	--	.09	.19	.03	--	.06	--	--	9.4
JUL 23, 75	0400	2	.3	--	.09	.09	.01	--	.05	--	--	7.0
			10.4	--	.10	.20	.02	--	.08	--	--	7.2
JUL 23, 75	0600	2	.3	--	.09	.11	.01	--	.04	--	--	9.6
			6.1	--	.10	.14	.01	--	.04	--	--	8.8
JUL 23, 75	0810	2	.3	--	.10	.12	.01	--	.04	--	--	4.8
			9.8	--	.09	.20	.03	--	.07	--	--	8.2
JUL 23, 75	1230	2	.3	--	.10	.09	.01	--	.05	--	--	--
			10.1	--	.09	.17	.03	--	.06	--	--	6.0
JUL 23, 75	1815	2	.3	--	.10	.12	.01	--	.04	--	--	6.4
			10.1	--	.09	.21	.03	--	.16	--	--	9.6
JUL 24, 75	0010	2	.3	--	.16	.17	.02	--	.05	--	--	13.0
			10.7	--	.09	.17	.03	--	.07	--	--	6.0
JUL 24, 75	0600	2	.3	--	.10	.17	.02	--	.05	--	--	8.4
			10.7	--	.10	.24	.02	--	.05	--	--	--
JUL 24, 75	1215	2	.3	--	.11	.12	.01	--	.05	--	--	--
			9.8	--	.09	.19	.04	--	.08	--	--	--
JUL 24, 75	1815	2	.3	--	.12	.12	.01	--	.05	--	--	6.6
			9.1	--	.09	.21	.04	--	.06	--	--	--
JUL 25, 75	1050	2	.3	--	.10	.11	.01	--	.04	1.6	0	7.0
			10.1	--	.09	.21	.05	--	.06	1.4	0	6.4
					LINE 107							
OCT 08, 74	1350	2	.3	12.0	.01	.00	.01	--	.04	1.1	0	--
			6.7	10.0	.02	.02	.01	--	.04	.9	5	--
JAN 20, 75	1640	2	.3	--	.02	.01	.00	--	.05	2.0	--	--
APR 07, 75	1630	2	.3	7.2	.06	.00	.00	--	.06	1.7	0	9.2
MAY 20, 75	1520	2	.3	9.1	.13	.02	.01	--	.05	.6	--	--
			7.9	8.8	.03	.03	.04	--	.05	.8	--	--
JUL 25, 75	0935	2	.3	11.0	.08	.01	.00	--	.05	1.0	0	6.6
					LINE 214							
OCT 08, 74	1525	2	.3	--	.15	.09	.07	--	.06	2.8	5	9.5

TABLE 18--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
					LINE 214 CONTINUED							
OCT 08, 74	1525	2	13.7	--	.07	.05	.04	--	.07	.9	I	--
JAN 20, 75	1735	2	.3	--	.09	.10	.00	--	.07	2.6	--	--
			13.7	--	.10	.12	.00	--	.07	2.0	--	--
APR 07, 75	1800	2	.3	--	.11	.09	.00	--	.06	1.9	0	6.6
			12.2	--	.10	.13	.01	--	.08	1.4	0	5.2
MAY 20, 75	1650	2	.3	--	.14	.06	.01	--	.05	1.4	--	--
			13.7	--	.15	.07	.00	--	.04	1.0	--	--
JUL 21, 75	1900	2	.3	--	.05	.01	.00	--	.05	--	--	8.6
JUL 21, 75	2355	2	.3	--	.04	.07	.01	--	.05	--	--	8.6
JUL 22, 75	0600	2	.3	--	.05	.08	.01	--	.05	--	--	8.4
			9.1	--	.06	.21	.01	--	.17	--	--	13.0
JUL 22, 75	1600	2	.3	8.2	.07	.07	.01	--	.06	--	--	9.4
			13.1	4.1	.06	.17	.01	--	.15	--	--	8.2
JUL 22, 75	1800	2	.3	8.0	.07	.07	.01	--	.06	--	--	12.0
JUL 22, 75	2000	2	.3	8.2	.10	.10	.01	--	.06	--	--	4.0
JUL 22, 75	2200	2	.3	8.3	.11	.11	.01	--	.04	--	--	11.0
JUL 22, 75	2400	2	.3	8.1	.10	.11	.02	--	.04	--	--	6.4
			9.1	4.2	.08	.17	.03	--	.06	--	--	4.6
JUL 23, 75	1400	2	.3	8.2	.07	.06	.01	--	.07	--	--	8.6
JUL 23, 75	0200	2	.3	8.4	--	--	--	--	--	--	--	--
JUL 23, 75	0800	2	.3	--	.11	.11	.02	--	.06	--	--	7.2
JUL 23, 75	1000	2	.3	8.2	.10	.10	.02	--	.05	--	--	7.4
JUL 23, 75	0400	2	.3	8.4	.11	.13	.02	--	.05	--	--	--
JUL 23, 75	0600	2	.3	8.5	.10	.12	.01	--	.02	--	--	8.2
JUL 23, 75	1200	2	.3	--	.10	.08	.03	--	.06	--	--	9.4
			13.1	--	.09	.19	.03	--	.26	--	--	24.0
JUL 23, 75	1800	2	.3	--	.08	.04	.02	--	.04	--	--	10.0
			13.1	--	.08	.18	.04	--	.17	--	--	16.0
JUL 23, 75	2400	2	.3	--	.08	.18	.04	--	.11	--	--	5.2
			9.1	3.3	.10	.05	.01	--	.03	--	--	11.0
JUL 24, 75	0600	2	.3	--	.11	.13	.02	--	.04	--	--	4.2
			9.1	--	.08	.18	.05	--	.09	--	--	5.0
JUL 24, 75	1200	2	.3	--	.11	.10	.02	--	.05	--	--	7.0
			13.4	--	.06	.23	.05	--	.13	--	--	7.4
JUL 24, 75	1800	2	.3	--	.10	.10	.03	--	.04	--	--	5.8
			13.4	--	.09	.16	.05	--	.10	--	--	5.0
JUL 25, 75	1050	2	.3	--	.11	.09	.03	--	.04	1.2	0	7.8
			14.9	--	.08	.21	.06	--	.16	2.8	0	8.0
					LINE 244							
OCT 08, 74	1625	4	.3	--	.07	.01	.02	--	.05	2.0	0	7.8
			1.5	--	.07	.01	.01	--	.09	1.9	0	--
JAN 21, 75	0935	4	.3	--	.11	.06	.00	--	.06	1.6	--	--

TABLE 19--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 244 CONTINUED						
JAN 21, 75	0935	4	.9	--	.08	.05	.00	--	.06	2.6	--	--
APR 08, 75	1715	4	.3	--	.09	.06	.00	--	.06	1.8	0	8.0
			1.8	--	.09	.06	.00	--	.06	2.8	0	7.8
MAY 20, 75	1430	4	.3	--	.18	.06	.01	--	.06	1.3	--	--
			1.5	--	.19	.07	.00	--	.06	1.5	--	--
JUL 25, 75	1115	4	.3	--	.12	.01	.01	--	.02	2.2	--	6.2
			1.8	--	.13	.13	.02	--	.06	1.6	--	--
						LINE 274						
OCT 08, 74	1740	2	.3	--	.05	.00	.01	--	.03	1.3	4	8.5
			2.1	--	.05	.05	.01	--	.04	1.1	1	5.9
JAN 21, 75	1045	2	.3	--	.10	.00	.00	--	.06	1.3	--	--
			2.4	--	.10	.01	.00	--	.08	1.2	--	--
APR 08, 75	1620	2	.3	--	.17	.08	.00	--	.06	1.6	1	13.0
			2.4	--	.11	.05	.00	--	.06	1.3	0	8.9
MAY 20, 75	1340	2	.3	--	.09	.00	.00	--	.02	1.4	--	--
			2.4	--	.09	.00	.00	--	.02	.6	--	--
JUL 25, 75	1215	2	.3	--	.10	.01	.01	--	.02	1.5	0	6.4
			2.7	--	.10	.05	.01	--	.08	3.3	--	--
						LINE 300						
OCT 09, 74	1030	2	.3	5.1	.04	.00	.01	--	.04	.5	5	6.8
			2.1	3.9	.06	.05	.02	--	.06	.5	0	6.2
JAN 21, 75	1155	2	.3	6.5	.13	.01	.01	--	.10	1.1	--	--
			2.1	6.6	.13	.04	.00	--	.07	1.6	--	--
APR 08, 75	1050	2	.3	6.6	.10	.05	.00	--	.06	1.3	0	6.6
			4.0	--	.13	.07	.00	--	.15	2.8	0	9.6
MAY 20, 75	1245	2	.3	--	.13	.01	.01	--	.03	.9	--	--
			2.4	7.2	.15	.05	.01	--	.03	.9	--	--
JUL 25, 75	1535	2	.3	--	.09	.02	.01	--	.03	2.6	0	7.2
			2.3	4.4	.06	.08	.01	--	.04	1.5	--	--
						LINE 308						
JUL 21, 75	1900	2	.3	--	.01	.01	.00	--	.05	--	--	7.0
			10.1	--	.01	.12	.01	--	.39	--	--	2.8
JUL 22, 75	0100	2	.3	--	.00	.03	.01	--	.03	--	--	11.0
			9.1	--	.04	.08	.01	--	.08	--	--	11.0
JUL 22, 75	0300	2	10.4	--	.04	.13	.01	--	.06	--	--	5.8
JUL 22, 75	0700	2	.3	--	.04	.05	.00	--	.04	--	--	5.6
			9.1	--	.03	.08	.00	--	.08	--	--	5.0
JUL 22, 75	0900	2	.3	--	.02	.05	.01	--	.05	--	--	5.4
			9.1	--	.01	.05	.01	--	.06	--	--	6.0
JUL 22, 75	1100	2	.3	--	.03	.07	.01	--	.04	--	--	5.0
			9.1	--	.02	.07	.01	--	.09	--	--	3.4
JUL 22, 75	1300	2	.3	--	.03	.05	.01	--	.03	--	--	5.4
			9.1	--	.02	.07	.01	--	.06	--	--	3.6

TABLE 19--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
					LINE 308 CONTINUED							
JUL 22, 75	1500	2	.3	--	.05	.04	.00	--	.06	--	--	5.8
			9.1	--	.01	.06	.01	--	.07	--	--	2.6
JUL 22, 75	1700	2	.3	--	.05	.04	.01	--	.04	--	--	5.8
			9.1	--	.03	.08	.00	--	.10	--	--	4.0
JUL 22, 75	1900	2	.3	--	.06	.02	.00	--	.03	--	--	6.6
			9.8	--	.04	.06	.00	--	.05	--	--	3.2
JUL 22, 75	2100	2	.3	--	.04	.03	.01	--	.08	--	--	--
			8.8	--	.05	.06	.00	--	.12	--	--	--
JUL 22, 75	2300	2	.3	--	.02	.02	.00	--	.06	--	--	7.2
			10.1	--	.03	.03	.00	--	.07	--	--	15.0
JUL 23, 75	0100	2	.3	--	.03	.03	.00	--	.05	--	--	--
			9.8	--	.04	.05	.00	--	.05	--	--	--
JUL 23, 75	0300	2	.3	--	.04	.03	.00	--	.04	--	--	6.6
JUL 23, 75	0500	2	.3	--	.04	.06	.01	--	.05	--	--	--
			9.1	--	.04	.11	.00	--	.12	--	--	--
JUL 23, 75	1215	2	.3	--	.06	.07	.02	--	.05	--	--	4.6
			9.1	--	.03	.07	.01	--	.08	--	--	7.0
JUL 23, 75	1815	2	.3	--	.05	.06	.01	--	.03	--	--	3.6
			9.1	--	.02	.08	.01	--	.06	--	--	3.4
JUL 23, 75	2400	2	.3	--	.07	.04	.00	--	.05	--	--	6.2
			9.8	--	.07	.05	.30	--	.07	--	--	--
JUL 24, 75	0600	2	.3	--	.07	.05	.01	--	.04	--	--	--
			8.2	--	.04	.09	.01	--	.08	--	--	--
JUL 24, 75	1215	2	.3	--	.06	.06	.01	--	.05	--	--	--
			9.1	--	.04	.07	.01	--	.05	--	--	--
JUL 24, 75	1815	2	.3	--	.06	.06	.01	--	.04	--	--	--
			9.1	--	.02	.08	.02	--	.06	--	--	--
					LINE 313							
JUL 21, 75	1900	2	.3	--	.00	.01	.00	--	.05	--	--	8.6
JUL 21, 75	2400	2	.3	--	.00	.07	.00	--	.12	--	--	19.0
JUL 22, 75	0600	2	.3	--	.00	.03	.00	--	.07	--	--	12.0
JUL 22, 75	0800	2	2.9	--	.00	.03	.00	--	.07	--	--	9.4
JUL 22, 75	1000	2	2.9	--	.00	.03	.00	--	.05	--	--	8.0
JUL 22, 75	1200	2	2.9	--	.00	.04	.00	--	.06	--	--	8.0
JUL 22, 75	1400	2	2.9	--	.00	.03	.00	--	.05	--	--	8.2
JUL 22, 75	1600	2	2.9	--	.00	.02	.00	--	.05	--	--	13.0
JUL 22, 75	1800	2	2.9	--	.00	.02	.00	--	.07	--	--	9.6
JUL 22, 75	2000	2	.3	--	.00	.03	.00	--	.05	--	--	9.0
JUL 22, 75	2200	2	.3	--	.00	.04	.00	--	.06	--	--	10.0
JUL 22, 75	2400	2	.3	--	.00	.04	.00	--	.08	--	--	13.0
JUL 23, 75	1200	2	2.9	--	.04	.03	.01	--	.04	--	--	7.6

TABLE 18--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 313 CONTINUED						
JUL 23, 75	1800	2	2.9	--	.04	.03	.00	--	.04	--	--	8.8
JUL 23, 75	2400	2	.3	--	.02	.01	.06	--	.05	--	--	11.0
JUL 23, 75	0200	2	.3	--	.00	.07	.00	--	.11	--	--	20.0
JUL 23, 75	0400	2	.3	--	.00	.09	.01	--	.13	--	--	25.0
JUL 23, 75	0600	2	.3	--	.00	.08	.01	--	.07	--	--	12.0
JUL 24, 75	0600	2	.3	--	.03	.02	.00	--	.09	--	--	13.0
JUL 24, 75	1200	2	2.9	--	.02	.01	.00	--	.06	--	--	11.0
JUL 24, 75	1800	2	2.9	--	.07	.01	.00	--	.06	--	--	--
						LINE 369						
OCT 08, 74	1815	2	.3	--	.06	.02	.01	--	.06	1.5	1	--
			12.2	--	.04	.02	.01	--	.12	1.1	3	5.1
JAN 21, 75	1120	2	.3	--	.07	.08	.00	--	.07	1.4	--	--
			13.1	--	.02	.04	.00	--	.21	8.4	--	--
APR 08, 75	1020	2	.3	--	.10	.13	.00	--	.05	1.4	0	7.3
			12.5	--	.13	.12	.00	--	.07	1.5	0	4.1
MAY 20, 75	1220	2	.3	--	.14	.10	.01	--	.05	.9	--	--
			12.2	--	.05	.14	.01	--	.06	1.0	--	--
JUL 21, 75	1815	2	.3	--	.03	.01	.00	--	.06	--	--	7.4
			10.1	--	.03	.12	.00	--	.12	--	--	3.2
JUL 21, 75	2400	2	.3	--	.04	.13	.02	--	.09	--	--	--
			12.2	--	.04	.07	.01	--	.06	--	--	3.8
JUL 22, 75	0600	2	.3	--	.02	.06	.01	--	.06	--	--	7.4
			12.2	--	.04	.09	.01	--	.17	--	--	1.6
JUL 22, 75	0800	2	.3	--	.05	.06	.01	--	.04	--	--	5.6
			12.8	--	.02	.06	.01	--	.19	--	--	10.0
JUL 22, 75	1000	2	.3	--	.03	.06	.01	--	.05	--	--	4.8
			12.2	--	.02	.04	.01	--	.08	--	--	4.6
JUL 22, 75	1200	2	.3	--	.04	.02	.00	--	.06	--	--	5.6
			12.2	--	.01	.06	.01	--	.06	--	--	3.4
JUL 22, 75	1400	2	.3	--	.04	.03	.01	--	.05	--	--	4.8
			10.7	--	.01	.06	.01	--	.07	--	--	3.4
JUL 22, 75	1600	2	.3	--	.03	.05	.01	--	.03	--	--	6.0
			11.0	--	.02	.06	.01	--	.08	--	--	3.2
JUL 22, 75	1800	2	.3	--	.04	.01	.01	--	.03	--	--	5.6
			11.0	--	.02	.06	.01	--	.07	--	--	2.8
JUL 22, 75	2000	2	.3	--	.04	.02	.01	--	.05	--	--	--
			10.7	--	.02	.05	.01	--	.05	--	--	--
JUL 22, 75	2200	2	.3	--	.05	.15	.01	--	.05	--	--	21.0
			12.2	--	.04	.06	.01	--	.05	--	--	3.6
JUL 22, 75	2400	2	.3	--	.07	.14	.01	--	.07	--	--	6.6
			12.2	--	.04	.06	.01	--	.08	--	--	--
JUL 23, 75	0200	2	.3	--	.06	.15	.01	--	.06	--	--	4.6
			12.2	--	.05	.09	.01	--	.12	--	--	3.8

TABLE 18--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
					LINE 369 CONTINUED							
JUL 23, 75	0400	2	.3	--	.05	.04	.00	--	.03	--	--	--
			11.6	--	.06	.08	.01	--	.34	--	--	--
JUL 23, 75	0600	2	12.2	--	.05	.10	.01	--	.10	--	--	5.8
JUL 23, 75	1200	2	.3	--	.05	.05	.01	--	.06	--	--	4.8
			12.2	--	.01	.06	.01	--	.11	--	--	3.4
JUL 23, 75	1800	2	.3	--	.05	.05	.01	--	.05	--	--	4.4
			12.2	--	.03	.07	.01	--	.20	--	--	6.0
JUL 23, 75	2400	2	.3	--	.07	.13	.02	--	.08	--	--	5.0
			12.2	--	.04	.08	.01	--	.05	--	--	4.4
JUL 24, 75	0600	2	.3	--	.07	.08	.01	--	.08	--	--	6.0
			11.6	--	.04	.10	.02	--	.11	--	--	3.8
JUL 24, 75	1200	2	.3	--	.05	.07	.02	--	.06	--	--	--
			12.2	--	.03	.07	.02	--	.10	--	--	--
JUL 24, 75	1800	2	.3	--	.06	.06	.02	--	.06	--	--	--
			12.2	--	.05	.06	.02	--	.06	--	--	--
JUL 25, 75	1300	2	.3	--	.06	.04	.01	--	.04	2.0	0	6.2
			12.8	--	.01	.11	.06	--	.09	2.3	0	7.0
					LINE 903							
OCT 09, 74	1225	1	.3	.5	.00	.00	.00	--	.04	.6	0	4.3
			7.3	.4	.01	.03	.00	--	.19	.6	0	2.8
JAN 21, 75	1030	1	.6	2.5	.04	.02	.00	--	.05	1.7	--	--
			10.7	.7	.01	.02	.01	--	.13	1.6	--	--
JUL 25, 75	1150	1	.3	1.1	.00	.01	.00	--	.02	2.0	0	4.6
			7.0	1.4	.02	.14	.02	--	.06	1.7	0	3.8
					LINE 910							
OCT 09, 74	1155	1	.3	--	.00	.01	.00	--	.04	.5	--	--
			11.6	--	.00	.01	.00	--	.04	.5	--	--
					LINE 925							
OCT 09, 74	1100	1	.3	.1	.00	.02	.00	--	.03	.6	1	2.3
			12.8	.2	.00	.00	.00	--	.04	.5	0	2.8

TABLE 1C--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
						LINE 15						
OCT 08, 74	1345	2	.3	163	--	--	--	--	--	--	--	--
JAN 20, 75	1640	2	.3	200	--	--	--	--	29	--	--	--
APR 07, 75	1625	2	.3	145	7.7	2.7	15	2.8	22	16	18	82
MAY 20, 75	1600	2	.3	184	6.6	2.5	14	2.4	23	15	17	77
JUL 25, 75	0950	2	.3	122	6.2	3.2	17	2.1	25	15	14	80
						LINE 82						
JUL 21, 75	1800	2	3.7	3160	--	--	--	--	--	--	--	--
JUL 21, 75	2400	2	.3	2760	--	--	--	--	--	--	--	--
JUL 22, 75	0600	2	.3	2760	--	--	--	--	--	--	--	--
JUL 22, 75	2015	2	1.5	3160	--	--	--	--	--	--	--	--
JUL 23, 75	1200	2	.3	2460	--	--	--	--	--	--	--	--
JUL 23, 75	1800	2	.3	2190	--	--	--	--	--	--	--	--
JUL 24, 75	0020	2	.3	2910	--	--	--	--	--	--	--	--
JUL 24, 75	0610	2	.3	2510	--	--	--	--	--	--	--	--
JUL 24, 75	1200	2	.3	3010	--	--	--	--	--	--	--	--
JUL 24, 75	1800	2	.3	2640	--	--	--	--	--	--	--	--
						LINE 87						
OCT 08, 74	1535	2	.3	11600	--	--	--	--	--	--	--	--
			6.1	25700	--	--	--	--	--	--	--	--
JAN 20, 75	1750	2	.3	194	--	--	--	--	--	--	--	--
			9.8	193	--	--	--	--	--	--	--	--
APR 07, 75	1755	2	.3	767	--	--	--	--	--	--	--	--
			11.3	18600	--	--	--	--	--	--	--	--
MAY 20, 75	1730	2	.3	156	--	--	--	--	--	--	--	--
			10.1	157	--	--	--	--	--	--	--	--
JUL 22, 75	1015	2	.3	2360	--	--	--	--	--	--	--	--
			10.1	16500	--	--	--	--	--	--	--	--
JUL 22, 75	2000	2	.3	2040	--	--	--	--	--	--	--	--
			10.4	18500	--	--	--	--	--	--	--	--
JUL 22, 75	2215	2	.3	1850	--	--	--	--	--	--	--	--
JUL 22, 75	2400	2	.3	1460	--	--	--	--	--	--	--	--
			10.4	18700	--	--	--	--	--	--	--	--
JUL 22, 75	1900	2	.3	1630	--	--	--	--	--	--	--	--
			10.1	17400	--	--	--	--	--	--	--	--
JUL 22, 75	0600	2	.3	1670	--	--	--	--	--	--	--	--
			9.8	16000	--	--	--	--	--	--	--	--
JUL 22, 75	0815	2	.3	2570	--	--	--	--	--	--	--	--

TABLE 1C--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (LAB)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
					LINE 87 CONTINUED							
JUL 22, 75	0815	2	9.4	16300	--	--	--	--	--	--	--	--
JUL 22, 75	0100	2	.3	1400	--	--	--	--	--	--	--	--
			10.1	16300	--	--	--	--	--	--	--	--
JUL 22, 75	1220	2	.3	2500	--	--	--	--	--	--	--	--
			9.8	16700	--	--	--	--	--	--	--	--
JUL 22, 75	1415	2	.3	2370	--	--	--	--	--	--	--	--
			10.1	16700	--	--	--	--	--	--	--	--
JUL 22, 75	1615	2	.3	2600	--	--	--	--	--	--	--	--
			9.8	17100	--	--	--	--	--	--	--	--
JUL 23, 75	0210	2	.3	1720	--	--	--	--	--	--	--	--
			10.4	18600	--	--	--	--	--	--	--	--
JUL 23, 75	0400	2	.3	1600	--	--	--	--	--	--	--	--
			10.4	18200	--	--	--	--	--	--	--	--
JUL 23, 75	0600	2	.3	1670	--	--	--	--	--	--	--	--
			6.1	8310	--	--	--	--	--	--	--	--
JUL 23, 75	0810	2	.3	2380	--	--	--	--	--	--	--	--
			9.8	20400	--	--	--	--	--	--	--	--
JUL 23, 75	1230	2	.3	2260	--	--	--	--	--	--	--	--
			10.1	19400	--	--	--	--	--	--	--	--
JUL 23, 75	1815	2	.3	2540	--	--	--	--	--	--	--	--
			10.1	19300	--	--	--	--	--	--	--	--
JUL 24, 75	0010	2	.3	2090	--	--	--	--	--	--	--	--
			10.7	19300	--	--	--	--	--	--	--	--
JUL 24, 75	0600	2	.3	1790	--	--	--	--	--	--	--	--
			10.7	18600	--	--	--	--	--	--	--	--
JUL 24, 75	1215	2	.3	2330	--	--	--	--	--	--	--	--
			9.8	20200	--	--	--	--	--	--	--	--
JUL 24, 75	1815	2	.3	2340	--	--	--	--	--	--	--	--
			9.1	20800	--	--	--	--	--	--	--	--
JUL 25, 75	1050	2	.3	2060	--	--	--	--	--	--	--	--
			10.1	20400	--	--	--	--	--	--	--	--
					LINE 107							
OCT 08, 74	1350	2	.3	157	8.7	1.9	14	3.3	27	16	18	87
			6.7	170	8.3	2.1	17	2.8	20	16	26	92
JAN 20, 75	1640	2	.3	132	--	--	--	--	--	--	--	--
APR 07, 75	1630	2	.3	163	7.6	3.0	15	2.6	22	21	20	87
MAY 20, 75	1520	2	.3	123	6.7	2.5	11	2.4	19	15	15	71
			7.9	121	7.3	2.4	11	2.3	19	14	15	70
JUL 25, 75	0935	2	.3	135	7.2	3.6	14	2.3	24	15	17	82
					LINE 214							
OCT 08, 74	1525	2	.3	11000	--	--	--	--	--	--	--	--
			13.7	29100	--	--	--	--	--	--	--	--
JAN 20, 75	1735	2	.3	389	--	--	--	--	--	--	--	--

TABLE 1C--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (LAB)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS SUM OF CONSTITUENTS (MG/L)
						LINE 214 CONTINUED						
JAN 20, 75	1735	2	13.7	332	--	--	--	--	--	--	--	--
APR 07, 75	1800	2	.3	2600	--	--	--	--	--	--	--	--
			12.2	26800	--	--	--	--	--	--	--	--
MAY 20, 75	1650	2	.3	190	--	--	--	--	--	--	--	--
			13.7	163	--	--	--	--	--	--	--	--
JUL 21, 75	1900	2	.3	6220	--	--	--	--	--	--	--	--
JUL 21, 75	2355	2	.3	5730	--	--	--	--	--	--	--	--
JUL 22, 75	0600	2	.3	6860	--	--	--	--	--	--	--	--
			9.1	24300	--	--	--	--	--	--	--	--
JUL 22, 75	1600	2	.3	7050	58.0	130.0	1200	46.0	42	300	2000	3760
			13.1	26000	190.0	620.0	5200	220.0	90	1200	9000	16500
JUL 22, 75	1800	2	.3	7020	67.0	140.0	1200	46.0	45	290	2100	3870
JUL 22, 75	2000	2	.3	7280	63.0	140.0	1200	47.0	45	310	2000	3790
JUL 22, 75	2200	2	.3	6970	60.0	140.0	1200	46.0	42	290	2000	3770
JUL 22, 75	2400	2	.3	6850	56.0	130.0	1200	45.0	40	320	2000	3780
			9.1	26900	220.0	620.0	5000	210.0	102	1200	9100	16400
JUL 23, 75	1400	2	.3	7100	60.0	130.0	--	45.0	46	280	2100	1200
			9.1	--	--	--	--	--	--	--	--	5000
JUL 23, 75	0200	2	.3	--	--	--	1100	--	--	--	--	--
JUL 23, 75	0400	2	.3	--	--	--	1100	--	--	--	--	--
JUL 23, 75	0600	2	.3	--	--	--	1200	--	--	--	--	--
JUL 23, 75	2400	2	9.1	--	--	--	5500	--	--	--	--	--
JUL 24, 75	0600	2	.3	2600	--	--	--	--	--	--	--	--
			9.1	27900	--	--	--	--	--	--	--	--
JUL 24, 75	1800	2	.3	7250	--	--	--	--	--	--	--	--
			13.4	27800	--	--	--	--	--	--	--	--
JUL 25, 75	1050	2	.3	6530	--	--	--	--	--	--	--	--
			14.9	25100	--	--	--	--	--	--	--	--
						LINE 244						
OCT 08, 74	1625	4	.3	15700	--	--	--	--	--	--	--	--
			1.5	17000	--	--	--	--	--	--	--	--
JAN 21, 75	0935	4	.3	589	--	--	--	--	--	--	--	--
			.9	576	--	--	--	--	--	--	--	--
APR 08, 75	1715	4	.3	3300	--	--	--	--	--	--	--	--
			1.8	3230	--	--	--	--	--	--	--	--
MAY 20, 75	1430	4	.3	245	--	--	--	--	--	--	--	--
			1.5	243	--	--	--	--	--	--	--	--
JUL 25, 75	1115	4	.3	6950	--	--	--	--	--	--	--	--
			1.8	9120	--	--	--	--	--	--	--	--
						LINE 274						
OCT 08, 74	1740	2	.3	10600	--	--	--	--	--	--	--	--

TABLE 1C--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
						LINE 274 CONTINUED						
OCT 08, 74	1740	2	2.1	17100	--	--	--	--	--	--	--	--
JAN 21, 75	1045	2	.3	380	--	--	--	--	--	--	--	--
			2.4	388	--	--	--	--	--	--	--	--
APR 08, 75	1620	2	.3	854	--	--	--	--	--	--	--	--
			2.4	857	--	--	--	--	--	--	--	--
MAY 20, 75	1340	2	.3	256	--	--	--	--	--	--	--	--
			2.4	255	--	--	--	--	--	--	--	--
JUL 25, 75	1215	2	.3	5770	--	--	--	--	--	--	--	--
			2.7	5820	--	--	--	--	--	--	--	--
						LINE 300						
OCT 09, 74	1030	2	.3	15900	140.0	380.0	3200	120.0	74	840	5700	10400
			2.1	22400	190.0	560.0	4900	180.0	94	1300	8700	15900
JAN 21, 75	1155	2	.3	205	8.1	3.5	24	2.8	22	13	38	107
			2.1	375	6.9	4.0	26	2.9	22	13	43	113
APR 08, 75	1050	2	.3	4420	38.0	68.0	830	32.0	39	190	1400	2580
			4.0	4780	41.0	72.0	860	35.0	36	--	--	--
MAY 20, 75	1245	2	.3	1610	--	--	--	--	--	--	--	--
			2.4	3100	27.0	64.0	520	20.0	27	120	920	1690
JUL 25, 75	1035	2	.3	16000	--	--	--	--	--	--	--	--
			2.3	22100	170.0	570.0	4300	180.0	80	1100	7600	14000
						LINE 308						
JUL 21, 75	1900	2	.3	7900	--	--	--	--	--	--	--	--
			10.1	40100	--	--	--	--	--	--	--	--
JUL 22, 75	0100	2	.3	4500	--	--	--	--	--	--	--	--
			9.1	15700	--	--	--	--	--	--	--	--
JUL 22, 75	0300	2	10.4	18700	--	--	--	--	--	--	--	--
JUL 22, 75	0700	2	.3	19100	--	--	--	--	--	--	--	--
			9.1	33600	--	--	--	--	--	--	--	--
JUL 22, 75	0900	2	.3	25900	--	--	--	--	--	--	--	--
			9.1	38600	--	--	--	--	--	--	--	--
JUL 22, 75	1100	2	.3	23500	--	--	--	--	--	--	--	--
			9.1	40200	--	--	--	--	--	--	--	--
JUL 22, 75	1300	2	.3	18900	--	--	--	--	--	--	--	--
			9.1	39100	--	--	--	--	--	--	--	--
JUL 22, 75	1500	2	.3	18900	--	--	--	--	--	--	--	--
			9.1	39800	--	--	--	--	--	--	--	--
JUL 22, 75	1700	2	.3	18400	--	--	--	--	--	--	--	--
			9.1	41000	--	--	--	--	--	--	--	--
JUL 22, 75	1900	2	.3	16100	--	--	--	--	--	--	--	--
			9.8	40600	--	--	--	--	--	--	--	--
JUL 22, 75	2100	2	.3	10800	--	--	--	--	--	--	--	--
			8.8	11800	--	--	--	--	--	--	--	--
JUL 22, 75	2300	2	.3	6900	--	--	--	--	--	--	--	--
			10.1	8530	--	--	--	--	--	--	--	--

TABLE 1C--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
					LINE 308 CONTINUED							
JUL 23, 75	0100	2	.3	4290	--	--	--	--	--	--	--	--
			9.8	6410	--	--	--	--	--	--	--	--
JUL 23, 75	0300	2	.3	5600	--	--	--	--	--	--	--	--
JUL 23, 75	0500	2	.3	12300	--	--	--	--	--	--	--	--
			9.1	26500	--	--	--	--	--	--	--	--
JUL 23, 75	1215	2	.3	21600	--	--	--	--	--	--	--	--
			9.1	37000	--	--	--	--	--	--	--	--
JUL 23, 75	1815	2	.3	28700	--	--	--	--	--	--	--	--
			9.1	40300	--	--	--	--	--	--	--	--
JUL 23, 75	2400	2	.3	8670	--	--	--	--	--	--	--	--
			9.8	9320	--	--	--	--	--	--	--	--
JUL 24, 75	0600	2	.3	14000	--	--	--	--	--	--	--	--
			8.2	32500	--	--	--	--	--	--	--	--
JUL 24, 75	1215	2	.3	23800	--	--	--	--	--	--	--	--
			9.1	40400	--	--	--	--	--	--	--	--
JUL 24, 75	1815	2	.3	20600	--	--	--	--	--	--	--	--
			9.1	40300	--	--	--	--	--	--	--	--
					LINE 313							
JUL 21, 75	1900	2	.3	1410	--	--	--	--	--	--	--	--
JUL 21, 75	2400	2	.3	1790	--	--	--	--	--	--	--	--
JUL 22, 75	0600	2	.3	1530	--	--	--	--	--	--	--	--
JUL 22, 75	0800	2	2.9	1460	--	--	--	--	--	--	--	--
JUL 22, 75	1000	2	2.9	1430	--	--	--	--	--	--	--	--
JUL 22, 75	1200	2	2.9	1550	--	--	--	--	--	--	--	--
JUL 22, 75	1400	2	2.9	1490	--	--	--	--	--	--	--	--
JUL 22, 75	1600	2	2.9	1470	--	--	--	--	--	--	--	--
JUL 22, 75	1800	2	2.9	1530	--	--	--	--	--	--	--	--
JUL 22, 75	2000	2	.3	1500	--	--	--	--	--	--	--	--
JUL 22, 75	2200	2	.3	1460	--	--	--	--	--	--	--	--
JUL 22, 75	2400	2	.3	1640	--	--	--	--	--	--	--	--
JUL 23, 75	1200	2	2.9	2450	--	--	--	--	--	--	--	--
JUL 23, 75	1800	2	2.9	2590	--	--	--	--	--	--	--	--
JUL 23, 75	2400	2	.3	2430	--	--	--	--	--	--	--	--
JUL 23, 75	0200	2	.3	2170	--	--	--	--	--	--	--	--
JUL 23, 75	0400	2	.3	2230	--	--	--	--	--	--	--	--
JUL 23, 75	0600	2	.3	1900	--	--	--	--	--	--	--	--
JUL 24, 75	0600	2	.3	2610	--	--	--	--	--	--	--	--
JUL 24, 75	1200	2	2.9	3070	--	--	--	--	--	--	--	--
JUL 24, 75	1800	2	2.9	3140	--	--	--	--	--	--	--	--

TABLE 1C--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
LINE 369												
OCT 08, 74	1815	2	.3	23600	--	--	--	--	--	--	--	--
			12.2	38400	--	--	--	--	--	--	--	--
JAN 21, 75	1120	2	.3	6260	--	--	--	--	--	--	--	--
			13.1	31400	--	--	--	--	--	--	--	--
APR 08, 75	1020	2	.3	11300	--	--	--	--	--	--	--	--
			12.5	30200	--	--	--	--	--	--	--	--
MAY 20, 75	1220	2	.3	1960	--	--	--	--	--	--	--	--
			12.2	43300	--	--	--	--	--	--	--	--
JUL 21, 75	1815	2	.3	16900	--	--	--	--	--	--	--	--
			10.1	41700	--	--	--	--	--	--	--	--
JUL 21, 75	2400	2	.3	19700	--	--	--	--	--	--	--	--
			12.2	38300	--	--	--	--	--	--	--	--
JUL 22, 75	0600	2	.3	15000	--	--	--	--	--	--	--	--
			12.2	36700	--	--	--	--	--	--	--	--
JUL 22, 75	0800	2	.3	22200	--	--	--	--	--	--	--	--
			12.8	41500	--	--	--	--	--	--	--	--
JUL 22, 75	1000	2	.3	29700	--	--	--	--	--	--	--	--
			12.2	41800	--	--	--	--	--	--	--	--
JUL 22, 75	1200	2	.3	21200	--	--	--	--	--	--	--	--
			12.2	41800	--	--	--	--	--	--	--	--
JUL 22, 75	1400	2	.3	20700	--	--	--	--	--	--	--	--
			10.7	41600	--	--	--	--	--	--	--	--
JUL 22, 75	1600	2	.3	22000	--	--	--	--	--	--	--	--
			11.0	41800	--	--	--	--	--	--	--	--
JUL 22, 75	1800	2	.3	25800	--	--	--	--	--	--	--	--
			11.0	41900	--	--	--	--	--	--	--	--
JUL 22, 75	2000	2	.3	19400	--	--	--	--	--	--	--	--
			10.7	41500	--	--	--	--	--	--	--	--
JUL 22, 75	2200	2	.3	20400	--	--	--	--	--	--	--	--
			12.2	37500	--	--	--	--	--	--	--	--
JUL 22, 75	2400	2	.3	22400	--	--	--	--	--	--	--	--
			12.2	38100	--	--	--	--	--	--	--	--
JUL 23, 75	0200	2	.3	22200	--	--	--	--	--	--	--	--
			12.2	38500	--	--	--	--	--	--	--	--
JUL 23, 75	0400	2	.3	6470	--	--	--	--	--	--	--	--
			11.6	37700	--	--	--	--	--	--	--	--
JUL 23, 75	0600	2	12.2	32500	--	--	--	--	--	--	--	--
JUL 23, 75	1200	2	.3	22200	--	--	--	--	--	--	--	--
			12.2	40500	--	--	--	--	--	--	--	--
JUL 23, 75	1800	2	.3	27900	--	--	--	--	--	--	--	--
			12.2	41400	--	--	--	--	--	--	--	--
JUL 23, 75	2400	2	.3	21500	--	--	--	--	--	--	--	--
			12.2	35400	--	--	--	--	--	--	--	--
JUL 24, 75	0600	2	.3	14500	--	--	--	--	--	--	--	--

TABLE 1C--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
LINE 369 CONTINUED												
JUL 24, 75	0600	2	11.6	37100	--	--	--	--	--	--	--	--
JUL 24, 75	1200	2	.3	24200	--	--	--	--	--	--	--	--
			12.2	41400	--	--	--	--	--	--	--	--
JUL 24, 75	1800	2	.3	23200	--	--	--	--	--	--	--	--
			12.2	40800	--	--	--	--	--	--	--	--
JUL 25, 75	1300	2	.3	16300	--	--	--	--	--	--	--	--
			12.8	44300	--	--	--	--	--	--	--	--
LINE 903												
OCT 09, 74	1225	1	.3	37100	280.0	840.0	7100	330.0	140	1800	13000	23400
			7.3	39600	300.0	880.0	7900	250.0	140	2000	14000	25400
JAN 21, 75	1030	1	.6	28200	210.0	620.0	5600	220.0	102	1300	9800	17800
			10.7	43400	300.0	1000.0	8800	330.0	140	2100	15000	27600
JUL 25, 75	1150	1	.3	36600	300.0	850.0	6800	280.0	113	1800	12000	22100
			7.0	47500	390.0	1200.0	9600	380.0	140	2400	17000	31000
LINE 910												
OCT 09, 74	1155	1	.3	44200	--	--	--	--	--	--	--	--
			11.6	46700	--	--	--	--	--	--	--	--
LINE 925												
OCT 09, 74	1100	1	.3	47600	370.0	950.0	9500	330.0	146	2500	17000	30700
			12.8	48800	380.0	940.0	9800	320.0	148	2400	18000	31900

TABLE 10--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 15					
OCT 08, 74	1345	2	.3	30	0	--	--	0	--	--	--
APR 07, 75	1625	2	.3	--	--	--	--	--	--	--	.2
MAY 20, 75	1600	2	.3	--	--	--	--	--	--	--	.2
JUL 25, 75	0950	2	.3	--	--	--	--	--	--	--	.2
						LINE 87					
OCT 08, 74	1535	2	.3	0	0	0	--	0	2	--	--
			6.1	20	0	--	5	0	--	< 10.00	--
						LINE 107					
OCT 08, 74	1350	2	.3	40	1	--	--	0	--	--	--
			6.7	50	1	--	--	1	--	--	--
APR 07, 75	1630	2	.3	--	--	--	--	--	--	--	.2
MAY 20, 75	1520	2	.3	--	--	--	--	--	--	--	.4
			7.9	--	--	--	--	--	--	--	.2
JUL 25, 75	0935	2	.3	--	--	--	--	--	--	--	.2
						LINE 214					
OCT 08, 74	1525	2	.3	10	0	1	--	3	1	--	--
			13.7	20	0	--	13	0	--	< 10.00	--
JUL 22, 75	1600	2	.3	--	--	--	--	--	--	--	.3
			13.1	--	--	--	--	--	--	--	.8
JUL 22, 75	1800	2	.3	--	--	--	--	--	--	--	.3
JUL 22, 75	2000	2	.3	--	--	--	--	--	--	--	.3
JUL 22, 75	2200	2	.3	--	--	--	--	--	--	--	.3
JUL 22, 75	2400	2	.3	--	--	--	--	--	--	--	.3
			9.1	--	--	--	--	--	--	--	.8
JUL 23, 75	1400	2	.3	--	--	--	--	--	--	--	.3
						LINE 244					
OCT 08, 74	1625	4	.3	10	1	--	--	2	--	--	--
						LINE 274					
OCT 08, 74	1740	2	.3	20	1	--	--	2	--	--	--
			2.1	--	--	--	5	--	--	< 10.00	--
						LINE 300					
OCT 09, 74	1030	2	2.1	--	--	--	1	--	--	< 10.00	--
JAN 21, 75	1155	2	.3	--	--	--	--	--	--	--	.1
			2.1	--	--	--	--	--	--	--	.1
APR 08, 75	1050	2	.3	--	--	--	--	--	--	--	.3

TABLE 10--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 300 CONTINUED					
MAY 20, 75	1245	2	2.4	--	--	--	--	--	--	--	.3
JUL 25, 75	1035	2	2.3	--	--	--	--	--	--	--	.7
						LINE 369					
OCT 08, 74	1815	2	.3	10	0	1	--	2	1	--	--
			12.2	20	0	--	7	2	--	< 10.00	--
						LINE 903					
OCT 09, 74	1225	1	.3	0	1	--	--	0	--	--	--
			7.3	20	1	--	--	0	--	--	--
JAN 21, 75	1030	1	.6	--	--	--	--	--	--	--	.9
			10.7	--	--	--	--	--	--	--	1.3
JUL 25, 75	1150	1	.3	--	--	--	--	--	--	--	1.0
			7.0	--	--	--	--	--	--	--	1.4
						LINE 925					
OCT 09, 74	1100	1	.3	1	1	1	--	1	0	--	--
			12.8	0	1	1	--	0	0	--	--

TABLE 10--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	BOTTOM DEPOSIT COBALT (CO) (UG/GM)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	BOTTOM DEPOSIT COPPER (CU) (UG/GM)
						LINE 15					
OCT 08, 74	1345	2	.3	.00	--	5	--	--	2	--	--
						LINE 87					
OCT 08, 74	1535	2	.3	2.00	< 10.00	5	3	--	3	9.0	--
			6.1	1.00	--	6	--	< 10.00	24	--	< 10.00
						LINE 107					
OCT 08, 74	1350	2	.3	.00	--	0	--	--	4	--	--
			6.7	.00	--	0	--	--	8	--	--
						LINE 214					
OCT 08, 74	1525	2	.3	1.00	< 10.00	4	3	--	6	11.0	--
			13.7	1.00	--	5	--	< 10.00	8	--	< 10.00
						LINE 244					
OCT 08, 74	1625	4	.3	1.00	--	4	--	--	14	--	--
						LINE 274					
OCT 08, 74	1740	2	.3	1.00	--	4	--	--	5	--	--
			2.1	--	--	--	--	< 10.00	--	--	< 10.00
						LINE 300					
OCT 09, 74	1030	2	2.1	--	--	--	--	< 10.00	--	--	< 10.00
						LINE 369					
OCT 08, 74	1815	2	.3	2.00	< 10.00	4	3	--	3	9.0	--
			12.2	.00	--	4	--	< 10.00	2	--	< 10.00
						LINE 903					
OCT 09, 74	1225	1	.3	.00	--	0	--	--	6	--	--
			7.3	.00	--	0	--	--	6	--	--
						LINE 925					
OCT 09, 74	1100	1	.3	.00	10.00	0	0	--	6	12.0	--
			12.8	1.00	10.00	0	0	--	6	13.0	--

TABLE 10--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CYANIDE (CN) (MG/L)	BOTTOM DEPOSIT CYANIDE (CN) (UG/GM)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	BOTTOM DEPOSIT IRON (FE) (UG/GM)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	BOTTOM DEPOSIT LEAD (PB) (UG/GM)
						LINE 15					
OCT 08, 74	1345	2	.3	--	--	210	--	--	7	--	--
						LINE 87					
OCT 08, 74	1535	2	.3	--	--	40	20	--	8	5	--
			6.1	--	.0	90	--	--	8	--	< 10.00
						LINE 107					
OCT 08, 74	1350	2	.3	--	--	200	--	--	1	--	--
			6.7	--	--	270	--	--	1	--	--
						LINE 214					
OCT 08, 74	1525	2	.3	--	--	70	490	--	8	5	--
			13.7	--	.0	100	--	--	5	--	< 10.00
						LINE 244					
OCT 08, 74	1625	4	.3	--	--	60	--	--	6	--	--
						LINE 274					
OCT 08, 74	1740	2	.3	--	--	40	--	--	7	--	--
			2.1	--	.0	--	--	--	--	--	< 10.00
						LINE 300					
OCT 09, 74	1030	2	2.1	--	.0	--	--	--	--	--	< 10.00
						LINE 369					
OCT 08, 74	1815	2	.3	--	--	80	320	--	8	5	--
			12.2	--	.0	110	--	--	9	--	< 10.00
						LINE 903					
OCT 09, 74	1225	1	.3	--	--	90	--	--	0	--	--
			7.3	--	--	130	--	--	0	--	--
						LINE 925					
OCT 09, 74	1100	1	.3	--	--	130	180	--	0	4	--
			12.8	--	--	130	320	--	1	6	--

TABLE 10--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED LITH-IUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BOTTOM DEPOSIT MAN-GANESE (MN) (UG/GM)	DIS-SOLVED MER-CURY (HG) (UG/L)	TOTAL MER-CURY (HG) (UG/L)	BOTTOM DEPOSIT MER-CURY (HG) (UG/GM)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
						LINE 15						
OCT 08, 74	1345	2	.3	0	60	--	--	.1	--	--	1	190
						LINE 87						
OCT 08, 74	1535	2	.3	30	100	140	--	.1	.1	--	2	1500
			6.1	92	60	--	130	.1	--	.1	1	3000
						LINE 167						
OCT 08, 74	1350	2	.3	8	26	--	--	.0	--	--	3	150
			6.7	8	0	--	--	.0	--	--	1	150
						LINE 214						
OCT 08, 74	1525	2	.3	30	60	110	--	.2	.1	--	2	1500
			13.7	92	40	--	350	.2	--	.3	1	3300
						LINE 244						
OCT 08, 74	1625	4	.3	58	22	--	--	.3	--	--	2	2000
						LINE 274						
OCT 08, 74	1740	2	.3	30	35	--	--	.2	--	--	1	1300
			2.1	--	--	--	170	--	--	.1	--	--
						LINE 300						
OCT 09, 74	1030	2	2.1	--	--	--	210	--	--	.1	--	--
						LINE 369						
OCT 08, 74	1815	2	.3	75	26	60	--	.2	.3	--	2	2200
			12.2	120	47	--	70	.2	--	.1	1	3300
						LINE 903						
OCT 09, 74	1225	1	.3	120	94	--	--	.0	--	--	4	4100
			7.3	150	150	--	--	.1	--	--	0	4300
						LINE 925						
OCT 09, 74	1100	1	.3	160	180	200	--	.0	.2	--	1	4900
			12.8	150	140	200	--	.0	.3	--	1	5000

TABLE 10--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	BOTTOM DEPOSIT ZINC (ZN) (UG/GM)
						LINE 15
OCT 08, 74	1345	2	.3	10	--	--
						LINE 87
OCT 08, 74	1535	2	.3	40	30	--
			6.1	50	--	10.00
						LINE 107
OCT 08, 74	1350	2	.3	20	--	--
			6.7	20	--	--
						LINE 214
OCT 08, 74	1525	2	.3	40	40	--
			13.7	60	--	30.00
						LINE 244
OCT 08, 74	1625	4	.3	40	--	--
						LINE 274
OCT 08, 74	1740	2	.3	30	--	--
			2.1	--	--	40.00
						LINE 300
OCT 09, 74	1030	2	2.1	--	--	20.00
						LINE 369
OCT 08, 74	1815	2	.3	30	30	--
			12.2	40	--	10.00
						LINE 903
OCT 09, 74	1225	1	.3	40	--	--
			7.3	40	--	--
						LINE 925
OCT 09, 74	1100	1	.3	60	70	--
			12.8	60	70	--

TABLE 15--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	STATION	DEPTH (METERS)	TOTAL ALDRIN (UG/L)	BOTTOM DEPOSIT ALDRIN (UG/KG)	TOTAL CHLOR-DANE (UG/L)	BOTTOM DEPOSIT CHLOR-DANE (UG/KG)	TOTAL DDD (UG/L)	BOTTOM DEPOSIT DDD (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDE (UG/KG)
						LINE 15					
OCT 08, 74	1345	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 87					
OCT 08, 74	1535	2	.3	.00	--	.0	--	.00	--	.00	--
			6.1	--	.0	--	.0	--	.0	--	.0
						LINE 107					
OCT 08, 74	1350	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 214					
OCT 08, 74	1525	2	.3	.00	--	.0	--	.10	--	.00	--
			13.7	--	.0	--	.0	--	2.1	--	1.1
						LINE 244					
OCT 08, 74	1625	4	.3	.00	--	.0	--	.00	--	.00	--
						LINE 274					
OCT 08, 74	1740	2	.3	.00	--	.0	--	.00	--	.00	--
			2.1	--	.0	--	.0	--	.0	--	.0
						LINE 300					
OCT 09, 74	1030	2	.3	.00	--	.0	--	.00	--	.00	--
			2.1	--	.0	--	.0	--	.0	--	.0
						LINE 369					
OCT 08, 74	1815	2	.3	.00	--	.0	--	.00	--	.00	--
			12.2	--	.0	--	.0	--	.0	--	.0
						LINE 903					
OCT 09, 74	1225	1	.3	.00	--	.0	--	.00	--	.00	--
						LINE 925					
OCT 09, 74	1100	1	.3	.00	--	.0	--	.00	--	.00	--

TABLE 1F--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL DDT (UG/L)	BOTTOM DEPOSIT DDT (UG/KG)	TOTAL DIEL-DRIN (UG/L)	BOTTOM DEPOSIT DIEL-DRIN (UG/KG)	TOTAL ENDRIN (UG/L)	BOTTOM DEPOSIT ENDRIN (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR (UG/KG)
						LINE 15					
OCT 08, 74	1345	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 87					
OCT 08, 74	1535	2	.3	.00	--	.00	--	.00	--	.00	--
			6.1	--	.0	--	.0	--	.0	--	.0
						LINE 107					
OCT 08, 74	1350	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 214					
OCT 08, 74	1525	2	.3	.00	--	.00	--	.00	--	.00	--
			13.7	--	.0	--	.3	--	.0	--	.0
						LINE 244					
OCT 08, 74	1625	4	.3	.00	--	.00	--	.00	--	.00	--
						LINE 274					
OCT 08, 74	1740	2	.3	.00	--	.00	--	.00	--	.00	--
			2.1	--	.0	--	.0	--	.0	--	.0
						LINE 300					
OCT 09, 74	1030	2	.3	.00	--	.00	--	.00	--	.00	--
			2.1	--	.0	--	.0	--	.0	--	.0
						LINE 369					
OCT 08, 74	1815	2	.3	.00	--	.00	--	.00	--	.00	--
			12.2	--	.0	--	.1	--	.0	--	.0
						LINE 903					
OCT 09, 74	1225	1	.3	.00	--	.00	--	.00	--	.00	--
						LINE 925					
OCT 09, 74	1100	1	.3	.00	--	.00	--	.00	--	.00	--

TABLE 1E--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR EPOXIDE (UG/KG)	TOTAL LINDANE (UG/L)	BOTTOM DEPOSIT LINDANE (UG/KG)	TOTAL PARA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL DIAZ-INON (UG/L)
						LINE 15					
OCT 08, 74	1345	2	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 87					
OCT 08, 74	1535	2	.3	.00	--	.00	--	.00	.00	.00	.00
			6.1	--	.0	--	.0	--	--	--	--
						LINE 107					
OCT 08, 74	1350	2	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 214					
OCT 08, 74	1525	2	.3	.00	--	.00	--	.00	.00	.00	.00
			13.7	--	.0	--	.0	--	--	--	--
						LINE 244					
OCT 08, 74	1625	4	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 274					
OCT 08, 74	1740	2	.3	.00	--	.00	--	.00	.00	.00	.00
			2.1	--	.0	--	.0	--	--	--	--
						LINE 300					
OCT 09, 74	1030	2	.3	.00	--	.00	--	.00	.00	.00	.00
			2.1	--	.0	--	.0	--	--	--	--
						LINE 369					
OCT 08, 74	1815	2	.3	.00	--	.00	--	.00	.00	.00	.00
			12.2	--	.0	--	.0	--	--	--	--
						LINE 903					
OCT 09, 74	1225	1	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 925					
OCT 09, 74	1100	1	.3	.00	--	.00	--	.00	.00	.00	.00

TABLE 1E--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL PCB (UG/L)	BOTTOM DEPOSIT PCB (UG/KG)	TOTAL 2,4-D (UG/L)	BOTTOM DEPOSIT 2,4-D (UG/KG)	TOTAL 2,4,5-T (UG/L)	BOTTOM DEPOSIT 2,4,5-T (UG/KG)	TOTAL SILVEX (UG/L)	BOTTOM DEPOSIT SILVEX (UG/KG)
						LINE 15					
OCT 08, 74	1345	2	.3	.0	--	.00	--	.00	--	.00	--
						LINE 87					
OCT 08, 74	1535	2	.3	.0	--	.00	--	.00	--	.00	--
			6.1	--	.0	--	--	--	--	--	--
						LINE 107					
OCT 08, 74	1350	2	.3	.0	--	.00	--	.00	--	.00	--
						LINE 214					
OCT 08, 74	1525	2	.3	.0	--	.00	--	.00	--	.00	--
			13.7	--	17.0	--	--	--	--	--	--
						LINE 244					
OCT 08, 74	1625	4	.3	.0	--	.00	--	.00	--	.00	--
						LINE 274					
OCT 08, 74	1740	2	.3	.0	--	.00	--	.00	--	.00	--
			2.1	--	.0	--	--	--	--	--	--
						LINE 300					
OCT 09, 74	1030	2	.3	.0	--	.00	--	.00	--	.00	--
			2.1	--	.0	--	--	--	--	--	--
						LINE 369					
OCT 08, 74	1815	2	.3	.0	--	.00	--	.00	--	.00	--
			12.2	--	.0	--	--	--	--	--	--
						LINE 903					
OCT 09, 74	1225	1	.3	.0	--	.00	--	.00	--	.00	--
						LINE 925					
OCT 09, 74	1100	1	.3	.0	--	.02	--	.00	--	.00	--

TABLE 1E--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL TOXA-PHENE (UG/L)	BOTTOM DEPOSIT TOXA-PHENE (UG/KG)	TOTAL ETHION (UG/L)	BOTTOM DEPOSIT ETHION (UG/KG)	TOTAL METHYL TRI-THION (UG/L)	BOTTOM DEPOSIT METHYL TRI-THION (UG/KG)	TOTAL TRI-THION (UG/L)	BOTTOM DEPOSIT TRI-THION (UG/KG)
						LINE 15					
OCT 08, 74	1345	2	.3	.0	--	--	--	--	--	--	--
						LINE 87					
OCT 08, 74	1535	2	.3	.0	--	--	--	--	--	--	--
			6.1	--	0.	--	--	--	--	--	--
						LINE 107					
OCT 08, 74	1350	2	.3	.0	--	--	--	--	--	--	--
						LINE 214					
OCT 08, 74	1520	2	.3	.0	--	--	--	--	--	--	--
			13.7	--	0.	--	--	--	--	--	--
						LINE 244					
OCT 08, 74	1625	4	.3	.0	--	--	--	--	--	--	--
						LINE 274					
OCT 08, 74	1740	2	.3	.0	--	--	--	--	--	--	--
			2.1	--	0.	--	--	--	--	--	--
						LINE 300					
OCT 09, 74	1030	2	.3	.0	--	--	--	--	--	--	--
			2.1	--	0.	--	--	--	--	--	--
						LINE 369					
OCT 08, 74	1815	2	.3	.0	--	--	--	--	--	--	--
			12.2	--	0.	--	--	--	--	--	--
						LINE 903					
OCT 09, 74	1225	1	.3	.0	--	--	--	--	--	--	--
						LINE 925					
OCT 09, 74	1100	1	.3	.0	--	--	--	--	--	--	--

TABLE 1F--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)
						LINE 15	
OCT 08, 74	1345	2	.3	110	39	69	--
APR 07, 75	1625	2	.3	480	150	64	.00
MAY 20, 75	1600	2	.3	330	32	80	--
JUL 25, 75	0950	2	.3	--	34	78	--
						LINE 87	
OCT 08, 74	1535	2	.3	130	23	18	--
APR 07, 75	1750	2	.3	280	--	37	.30
MAY 20, 75	1730	2	.3	150	36	98	--
JUL 25, 75	1050	2	.3	750	250	140	--
						LINE 107	
APR 07, 75	1630	2	.3	450	--	110	.30
MAY 20, 75	1520	2	.3	220	50	170	.80
JUL 25, 75	0935	2	.3	56	26	30	--
						LINE 214	
OCT 08, 74	1525	2	.3	48	14	23	4.40
APR 07, 75	1800	2	.3	--	350	50	3.30
MAY 20, 75	1650	2	.3	*	16	50	--
JUL 25, 75	1050	2	.3	75	13	48	--
						LINE 244	
OCT 08, 74	1625	4	.3	23	8	10	5.70
APR 08, 75	1715	4	.3	--	--	98	1.20
MAY 20, 75	1430	4	.3	--	24	560	--
JUL 25, 75	1115	4	.3	--	4	20	--
						LINE 274	
OCT 08, 74	1740	2	.3	25	1	0	10.00
APR 08, 75	1620	2	.3	--	--	130	.40
MAY 20, 75	1340	2	.3	260	0	170	--
JUL 25, 75	1215	2	.3	1	1	1	--
						LINE 300	
OCT 09, 74	1030	2	.3	4	2	1	--

* - TOO NUMEROUS TO COUNT

TABLE 1F--QUALITY OF WATER IN THE SABINE-NECHES ESTUARY,

1975 WATER YEAR--CONTINUED

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)				
					LINE 300 CONTINUED						
APR 08, 75	1050	2	.3	0	--	0	--				
MAY 20, 75	1245	2	.3	--	2	76	--				
JUL 25, 75	1035	2	.3	25	1	2	--				
						LINE 369					
OCT 08, 74	1815	2	.3	16	2	4	--				
APR 08, 75	1020	2	.3	28	--	32	.30				
MAY 20, 75	1220	2	.3	--	26	460	--				
						LINE 903					
OCT 09, 74	1225	1	.3	0	0	5	.00				
JUL 25, 75	1150	1	.3	9	1	9	--				
						LINE 925					
OCT 09, 74	1100	1	.3	1	0	0	--				

Brazos Estuary

The Brazos estuary covers an area of about 3 square miles (8 km^2) and consists of the tidal parts of the Brazos River and parts of the Intracoastal Waterway (Figure 3). Although Freeport Harbor is not directly connected with the estuary, wastes from industrial operations around the habor are discharged into the estuary. River depth at mlw is about 10 feet (3.0 m) and about 15 feet (4.6 m) in the Intracoastal Waterway.

Water-quality data (Table 2) were collected during October 1974 and January and May 1975.

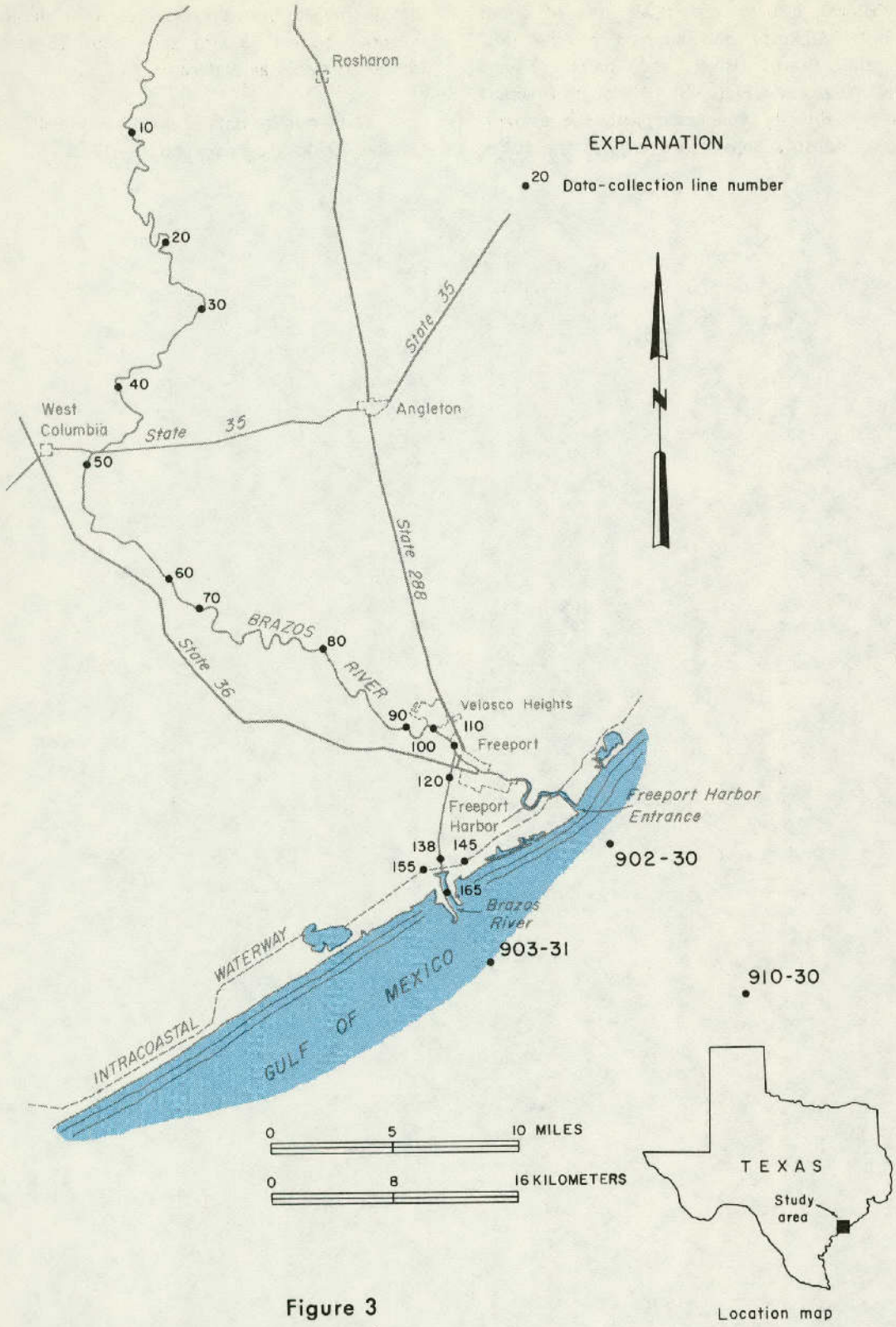

Figure 3

Data-Collection Sites in the Brazos Estuary

Base by U. S. Geological Survey, 1956

TABLE 2A--QUALITY OF WATER IN THE BRAZOS ESTUARY,

1975 WATER YEAR

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 20					
OCT 10, 74	1150	2	.3	550	24.0	7.8	8.8	104	200.	10
			1.5	550	24.0	7.8	8.8	104	200.	--
			3.7	550	24.0	7.9	8.8	104	200.	--
JAN 22, 75	1315	2	.3	700	11.8	8.1	10.0	92	340.	17
			1.5	700	11.8	8.2	10.1	93	340.	--
			3.0	700	11.9	8.5	10.0	93	340.	--
			4.6	700	11.9	8.5	9.9	92	320.	--
MAY 21, 75	1630	2	.3	390	27.0	--	6.8	84	--	9
			1.5	390	27.0	--	7.0	86	--	--
			5.5	390	27.0	--	7.0	86	--	--
					LINE 50					
OCT 10, 74	1300	2	.3	590	24.0	7.5	8.9	105	210.	8
			1.5	580	24.0	7.5	9.0	106	210.	--
			3.0	580	24.0	7.5	9.0	106	205.	--
			6.1	580	25.0	7.5	9.2	110	220.	--
			8.5	580	25.0	7.5	9.4	112	210.	--
JAN 22, 75	1350	2	.3	700	11.9	8.2	10.1	94	280.	10
			1.5	700	11.9	8.3	10.1	94	300.	--
			3.0	700	11.9	8.3	10.1	94	350.	--
			6.1	700	11.9	8.3	10.3	95	340.	--
MAY 21, 75	1710	2	.3	400	27.0	--	7.0	86	--	5
			1.5	400	27.0	--	7.0	86	--	--
			5.8	400	27.0	--	7.1	88	--	--
					LINE 70					
OCT 10, 74	1320	2	.3	640	24.3	7.5	9.2	108	200.	15
			3.0	640	24.3	7.6	9.2	108	250.	--
			5.2	640	24.3	7.6	9.5	112	250.	--
JAN 22, 75	1415	2	.3	700	11.3	8.4	10.1	92	260.	11
			1.5	700	11.4	8.4	10.2	93	330.	--
			3.0	700	11.4	8.4	10.1	92	310.	--
			5.8	700	11.7	8.4	10.0	92	320.	--
MAY 21, 75	1710	2	.3	400	26.1	7.9	6.6	80	> 500.	7
			3.0	400	26.1	7.9	6.6	80	> 500.	--
			6.4	400	26.1	8.1	6.7	82	> 500.	--
					LINE 90					
OCT 10, 74	1235	2	.3	660	24.2	7.6	9.0	106	110.	--
			1.5	660	24.2	7.6	8.9	105	170.	--
			3.0	670	24.2	7.6	8.8	104	190.	--
			6.4	1100	24.3	7.7	8.8	104	250.	--
JAN 22, 75	1345	2	.3	680	11.5	8.1	10.0	91	420.	14
			1.5	680	11.5	8.1	10.0	91	480.	--
			3.0	680	11.5	8.1	10.1	92	500.	--
			4.6	680	11.5	8.1	10.0	91	500.	--
			7.0	680	11.5	8.2	9.8	89	500.	--
MAY 21, 75	1815	2	.3	390	27.0	--	7.0	86	--	6
			1.5	390	27.0	--	7.0	86	--	--
			5.5	390	27.0	--	7.1	88	--	--
					LINE 100					
OCT 10, 74	1205	2	.3	2300	24.9	8.0	8.6	104	80.	43

TABLE 2A--QUALITY OF WATER IN THE BRAZOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 100 CONTINUED						
OCT 10, 74	1205	2	1.5	9000	25.8	8.2	8.2	102	90.	--
			2.4	24000	29.2	8.4	7.5	104	65.	--
			3.7	28000	30.2	8.5	7.1	103	80.	--
JAN 22, 75	1330	2	.3	1300	11.8	8.2	9.8	90	320.	18
			1.5	4100	12.6	8.2	9.1	86	370.	--
			3.0	16000	15.3	8.5	8.5	89	250.	--
			5.2	32000	19.5	9.1	7.7	94	--	--
MAY 21, 75	1630	2	.3	1800	26.7	7.8	7.0	86	> 500.	9
			1.8	2400	27.0	7.8	6.6	83	> 500.	--
			3.7	2000	26.8	7.8	6.4	80	> 500.	--
				LINE 110						
OCT 10, 74	1120	1	.3	5500	25.3	8.1	8.7	107	50.	--
			1.5	13000	26.7	8.1	8.1	104	35.	--
			3.0	25000	29.1	8.0	7.5	106	30.	--
			5.2	26000	29.4	7.9	7.6	107	60.	--
JAN 22, 75	1315	1	.3	5600	12.6	8.4	8.4	81	190.	--
			2.4	11000	13.9	8.6	9.0	89	160.	--
MAY 21, 75	1600	1	.3	3500	27.0	7.9	6.7	84	225.	13
			1.5	6200	27.1	7.7	7.0	89	210.	--
			3.0	26000	28.1	7.5	5.8	81	400.	--
OCT 10, 74	1130	2	.3	5700	25.4	8.0	9.4	116	40.	43
			1.5	13000	26.6	8.2	8.2	106	50.	--
			3.0	25000	29.2	8.0	7.5	106	40.	--
			4.0	27000	29.7	8.0	7.4	107	70.	--
JAN 22, 75	1245	2	.3	4100	12.4	8.3	9.3	88	220.	--
			1.5	6000	12.8	8.5	9.2	88	200.	--
			3.0	8000	12.6	8.5	9.1	87	200.	--
			4.3	18000	15.6	8.8	7.6	80	220.	--
MAY 21, 75	1545	2	.3	3400	27.0	7.7	6.7	84	210.	15
			2.1	10000	27.4	7.6	6.3	81	250.	--
			4.0	28000	28.5	7.3	6.6	94	500.	--
OCT 10, 74	1150	3	.3	6000	25.5	8.1	9.2	114	50.	43
			1.5	8900	26.1	8.0	8.6	108	50.	--
			2.4	22000	28.3	8.0	7.8	107	50.	--
			3.4	27000	29.5	7.9	7.7	110	50.	--
JAN 22, 75	1240	3	.3	5100	12.6	8.4	9.6	91	190.	28
			1.5	5600	12.9	8.4	9.6	92	200.	--
			3.7	22000	16.2	8.7	8.7	95	120.	--
MAY 21, 75	1610	3	.3	4000	27.0	7.5	7.6	95	225.	14
			1.5	5000	27.1	7.5	7.7	96	275.	--
			3.0	21000	28.0	7.6	5.9	81	250.	--
				LINE 120						
OCT 10, 74	1105	2	.3	7500	25.6	8.1	8.5	105	40.	41
			1.5	9500	25.7	8.0	8.1	100	45.	--
			3.0	19000	27.5	8.0	7.6	101	30.	--
			4.6	23000	28.6	8.0	7.4	103	30.	--
			5.8	24000	28.7	8.0	7.7	107	30.	--
JAN 22, 75	1220	2	.3	5200	12.6	8.3	9.8	93	120.	40
			1.5	5500	12.7	8.3	9.7	92	140.	--
			3.0	6700	13.0	8.3	9.6	92	150.	--
			6.4	14000	14.2	8.4	9.4	94	350.	--
MAY 21, 75	1535	2	.3	4200	27.1	7.8	6.6	83	130.	17

TABLE 2A--QUALITY OF WATER IN THE BRAZOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 12C CONTINUED						
MAY 21, 75	1535	2	2.7	10000	27.1	7.8	6.3	80	200.	--
			5.5	14000	27.1	7.8	6.1	78	> 500.	--
				LINE 13B						
OCT 10, 74	1050	2	.3	8600	25.7	8.0	8.3	102	30.	46
			1.5	9200	25.7	8.0	8.0	99	30.	--
			3.0	16000	27.2	8.0	7.6	99	30.	--
			4.6	24000	28.7	8.4	7.4	100	30.	--
			6.4	28000	27.9	8.3	7.2	101	25.	--
JAN 22, 75	1155	2	.3	6800	12.8	8.4	9.8	94	80.	30
			1.5	6500	12.8	8.4	9.8	94	90.	--
			3.0	6500	12.8	8.4	9.8	94	95.	--
			5.8	10000	13.9	8.4	9.7	96	130.	--
MAY 21, 75	1520	2	.3	5300	27.1	7.9	6.5	82	160.	19
			1.5	5300	27.1	7.9	6.5	82	110.	--
			2.4	9000	27.1	7.8	6.5	82	--	--
			3.0	13000	27.1	7.9	6.1	78	200.	--
			6.1	14000	27.4	7.9	6.1	79	> 500.	--
				LINE 14S						
OCT 10, 74	1020	2	.3	20000	25.7	8.0	6.1	79	80.	33
			1.5	21000	25.3	7.9	5.6	72	100.	--
			3.0	23000	25.3	7.8	5.5	70	140.	--
			4.3	24000	25.3	7.8	5.0	64	> 500.	--
JAN 22, 75	1110	2	.3	10000	13.7	8.5	9.3	91	200.	39
			1.5	10000	13.7	8.5	9.3	91	290.	--
			4.0	10000	13.7	8.5	9.3	91	500.	--
MAY 21, 75	1445	2	.3	8000	27.6	7.9	6.2	79	75.	17
			1.8	10000	27.1	7.9	6.0	76	150.	--
			4.0	--	27.0	7.8	--	--	> 500.	--
				LINE 15S						
OCT 10, 74	1035	2	.3	21000	25.7	7.9	6.4	83	80.	36
			1.5	22000	25.2	7.8	6.2	79	100.	--
			3.4	22000	25.3	7.8	6.4	82	200.	--
JAN 22, 75	1140	2	.3	9000	13.3	8.5	9.5	93	100.	30
			1.5	9000	13.3	8.5	9.5	93	120.	--
			3.0	11000	13.4	8.5	9.5	93	220.	--
			5.2	13000	13.4	8.5	10.2	101	300.	--
MAY 21, 75	1505	2	.3	11000	28.0	8.0	6.6	86	80.	25
			1.5	13000	27.5	8.0	6.3	82	130.	--
			3.0	19000	27.2	8.0	6.1	80	180.	--
				LINE 9D3						
OCT 10, 74	0940	30	.3	41000	24.4	8.1	8.4	117	10.	188
			3.0	42000	24.4	8.0	8.2	114	10.	--
			6.1	45000	24.6	8.0	6.7	96	5.	--
			9.1	47000	24.7	8.0	7.1	101	10.	--
			12.2	47000	24.7	8.0	6.8	97	5.	--

TABLE 28--QUALITY OF WATER IN THE BRAZOS ESTUARY,

1975 WATER YEAR

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 20						
OCT 10, 74	1150	2	.3	9.7	.26	.00	.00	--	.19	.8	4	--
			3.7	9.8	.26	.00	.00	--	.23	1.1	2	--
JAN 22, 75	1315	2	.3	8.6	.42	.01	.00	--	.23	1.7	0	8.4
			4.6	8.6	.31	.01	.01	--	.27	1.2	1	--
MAY 21, 75	1630	2	.3	9.1	.63	.04	.02	--	.26	.6	1	11.0
			5.5	9.1	.62	.02	.04	--	.44	.7	2	10.0
						LINE 90						
OCT 10, 74	1235	2	.3	--	.25	.03	.01	--	.16	1.5	0	4.0
			6.4	--	--	--	--	--	--	1.3	2	--
JAN 22, 75	1345	2	.3	--	.29	.02	.01	--	.32	1.2	0	12.0
			7.0	--	.47	.02	.00	--	.22	1.7	0	8.8
MAY 21, 75	1815	2	.3	--	.48	.07	.00	--	.37	.7	1	9.2
			5.5	--	.63	.01	.01	--	.29	.8	0	11.0
						LINE 110						
OCT 10, 74	1130	2	.3	8.6	.27	.22	.01	--	.10	1.5	5	4.9
			4.0	3.9	.18	1.80	.03	--	.10	2.0	0	7.6
JAN 22, 75	1245	2	.3	7.5	.34	.11	.00	--	.15	1.3	0	5.8
			4.3	5.8	.33	1.50	.01	--	.18	.9	0	9.5
MAY 21, 75	1545	2	.3	8.7	.56	.04	.01	--	.23	.5	2	--
			4.0	--	.23	2.00	.00	--	.32	4.8	23	--
						LINE 138						
OCT 10, 74	1050	2	.3	--	.25	.67	.01	--	.09	1.9	0	--
			6.4	--	.18	1.60	.03	--	.07	2.7	0	--
JAN 22, 75	1155	2	.3	--	.40	.33	.01	--	.08	1.1	--	--
			5.8	--	.30	.55	.01	--	.12	1.6	--	--
MAY 21, 75	1520	2	.3	--	.53	.15	.00	--	.12	.9	--	--
			6.1	--	.28	.68	.00	--	.22	2.3	--	--
						LINE 903						
OCT 10, 74	0940	30	.3	.2	.00	.01	.00	--	.05	.8	5	3.3
			12.2	.3	.00	.02	.00	--	.04	.6	0	--

TABLE 2C--QUALITY OF WATER IN THE BRAZOS ESTUARY,

1975 WATER YEAR

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (LAB)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
						LINE 20						
OCT 10, 74	1150	2	.3	551	49.0	9.2	43	4.4	141	53	68	306
			3.7	552	53.0	28.0	200	10.0	145	54	76	502
JAN 22, 75	1315	2	.3	672	61.0	11.0	58	4.0	172	57	89	374
			3.0	--	--	--	--	4.0	--	--	--	--
			4.6	677	60.0	11.0	58	--	174	57	89	374
MAY 21, 75	1630	2	.3	394	45.0	8.2	39	4.6	129	39	60	269
			5.5	393	44.0	8.2	39	4.1	126	39	60	266
						LINE 90						
OCT 10, 74	1235	2	.3	616	--	--	--	--	--	--	--	--
			6.4	1130	--	--	--	--	--	--	--	--
JAN 22, 75	1345	2	.3	686	--	--	--	--	--	--	--	--
			7.0	685	--	--	--	--	--	--	--	--
MAY 21, 75	1815	2	.3	387	--	--	--	--	--	--	--	--
			5.5	392	--	--	--	--	--	--	--	--
						LINE 110						
OCT 10, 74	1130	2	.3	5680	87.0	110.0	1000	45.0	142	270	1700	3290
			4.0	27100	310.0	940.0	5800	210.0	152	1400	11000	19700
JAN 22, 75	1245	2	.3	4350	92.0	98.0	1000	37.0	172	250	1700	3270
			4.3	18500	160.0	250.0	3100	110.0	177	740	5400	9890
MAY 21, 75	1545	2	.3	3400	61.0	55.0	600	20.0	122	150	960	1920
			4.0	28200	--	--	--	--	--	--	--	--
						LINE 138						
OCT 10, 74	1050	2	.3	8690	--	--	--	--	--	--	--	--
			6.4	27000	--	--	--	--	--	--	--	--
JAN 22, 75	1155	2	.3	6800	--	--	--	--	--	--	--	--
			5.8	9770	--	--	--	--	--	--	--	--
MAY 21, 75	1520	2	.3	5310	--	--	--	--	--	--	--	--
			6.1	14500	--	--	--	--	--	--	--	--
						LINE 903						
OCT 10, 74	0940	30	.3	40000	310.0	940.0	8300	310.0	143	2200	14000	26100
			12.2	46400	370.0	970.0	9700	380.0	146	2400	17000	30900

TABLE 20--QUALITY OF WATER IN THE BRAZOS ESTUARY,

1975 WATER YEAR

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 20					
OCT 10, 74	1150	2	.3	--	--	5	--	--	0	--	--
			3.7	--	--	--	3	--	--	< 10.00	--
JAN 22, 75	1315	2	.3	--	--	--	--	--	--	--	.2
			3.0	--	--	--	--	--	--	--	.2
MAY 21, 75	1630	2	.3	--	--	--	--	--	--	--	.3
			5.5	--	--	--	--	--	--	--	.4
						LINE 110					
OCT 10, 74	1130	2	.3	10	3	4	--	1	0	--	--
			4.0	10	1	--	1	2	--	< 10.00	--
JAN 22, 75	1245	2	.3	--	--	--	--	--	--	--	.4
			4.3	--	--	--	--	--	--	--	.6
MAY 21, 75	1545	2	.3	--	--	--	--	--	--	--	.4
						LINE 903					
OCT 10, 74	0940	30	.3	20	1	--	--	1	--	--	--
			12.2	10	1	--	--	1	--	--	--

TABLE 20--QUALITY OF WATER IN THE BRAZOS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	BOTTOM DEPOSIT COBALT (CO) (UG/GM)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	BOTTOM DEPOSIT COPPER (CU) (UG/GM)
						LINE 20					
OCT 10, 74	1150	2	.3	--	.00	--	3	--	--	11.0	--
			3.7	--	--	--	--	10.00	--	--	< 10.00
						LINE 110					
OCT 10, 74	1130	2	.3	1.00	10.00	0	3	--	5	6.0	--
			4.0	8.00	--	0	--	10.00	22	--	< 10.00
						LINE 903					
OCT 10, 74	0940	30	.3	.00	--	0	--	--	8	--	--
			12.2	1.00	--	0	--	--	6	--	--

TABLE 20--QUALITY OF WATER IN THE BRAZOS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CYANIDE (CN) (MG/L)	BOTTOM DEPOSIT CYANIDE (CN) (UG/GM)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	BOTTOM DEPOSIT IRON (FE) (UG/GM)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	BOTTOM DEPOSIT LEAD (PB) (UG/GM)
						LINE 20					
OCT 10, 74	1150	2	.3	--	--	--	6100	--	--	11	--
			3.7	--	.0	--	--	--	--	--	< 10.00
						LINE 110					
OCT 10, 74	1130	2	.3	--	--	10	300	--	0	7	--
			4.0	--	.0	80	--	--	4	--	< 10.00
						LINE 903					
OCT 10, 74	0940	30	.3	--	--	170	--	--	2	--	--
			12.2	--	--	140	--	--	1	--	--

TABLE 2E--QUALITY OF WATER IN THE BRAZOS ESTUARY,

1975 WATER YEAR

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL ALDRIN (UG/L)	BOTTOM DEPOSIT ALDRIN (UG/KG)	TOTAL CHLOR-DANE (UG/L)	BOTTOM DEPOSIT CHLOR-DANE (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDD (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDE (UG/KG)
						LINE 20					
OCT 10, 74	1150	2	.3	.00	--	.0	--	.00	--	.00	--
			3.7	--	.0	--	.0	--	.1	--	1.0
						LINE 110					
OCT 10, 74	1130	2	.3	.00	--	.0	--	.00	--	.00	--
			4.0	--	.0	--	.0	--	.0	--	4.4

TABLE 2E--QUALITY OF WATER IN THE BRAZOS ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL DDT (UG/L)	BOTTOM DEPOSIT DDT (UG/KG)	TOTAL DIEL-DRIN (UG/L)	BOTTOM DEPOSIT DIEL-DRIN (UG/KG)	TOTAL ENDRIN (UG/L)	BOTTOM DEPOSIT ENDRIN (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR (UG/KG)
						LINE 20					
OCT 10, 74	1150	2	.3	.00	--	.00	--	.00	--	.00	--
			3.7	--	.0	--	.0	--	.0	--	.0
						LINE 110					
OCT 10, 74	1130	2	.3	.00	--	.00	--	.00	--	.00	--
			4.0	--	.0	--	.1	--	.0	--	.0

TABLE 2E--QUALITY OF WATER IN THE BRAZOS ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR EPOXIDE (UG/KG)	TOTAL LINDANE (UG/L)	BOTTOM DEPOSIT LINDANE (UG/KG)	TOTAL PARA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL DIAZ-INON (UG/L)
						LINE 20					
OCT 10, 74	1150	2	.3	.00	--	.00	--	.00	.00	.00	.00
			3.7	--	.0	--	.0	--	--	--	--
						LINE 110					
OCT 10, 74	1130	2	.3	.00	--	.00	--	.00	.00	.00	.00
			4.0	--	.0	--	.0	--	--	--	--

TABLE 2E--QUALITY OF WATER IN THE BRAZOS ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL PCB (UG/L)	BOTTOM DEPOSIT PCB (UG/KG)	TOTAL 2,4-D (UG/L)	BOTTOM DEPOSIT 2,4-D (UG/KG)	TOTAL 2,4,5-T (UG/L)	BOTTOM DEPOSIT 2,4,5-T (UG/KG)	TOTAL SILVEX (UG/L)	BOTTOM DEPOSIT SILVEX (UG/KG)
						LINE 20					
OCT 10, 74	1150	2	.3	.0	--	.00	--	.00	--	.00	--
			3.7	--	.0	--	--	--	--	--	--
						LINE 110					
OCT 10, 74	1130	2	.3	.0	--	.00	--	.00	--	.00	--
			4.0	--	47.0	--	--	--	--	--	--

TABLE 2E--QUALITY OF WATER IN THE BRAZOS ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL TOXA-PHENE (UG/L)	BOTTOM DEPOSIT TOXA-PHENE (UG/KG)	TOTAL ETHION (UG/L)	BOTTOM DEPOSIT ETHION (UG/KG)	TOTAL METHYL TRI-THION (UG/L)	BOTTOM DEPOSIT METHYL TRI-THION (UG/KG)	TOTAL TRI-THION (UG/L)	BOTTOM DEPOSIT TRI-THION (UG/KG)
						LINE 20					
OCT 10, 74	1150	2	.3	.0	--	--	--	--	--	--	--
			3.7	--	0.	--	--	--	--	--	--
						LINE 110					
OCT 10, 74	1130	2	.3	.0	--	--	--	--	--	--	--
			4.0	--	0.	--	--	--	--	--	--

TABLE 2F--QUALITY OF WATER IN THE BRAZOS ESTUARY,

1975 WATER YEAR

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
						LINE 20	
OCT 10, 74	1150	2	.3	--	380	74	--
MAY 21, 75	1630	2	.3	--	*	100	--
						LINE 90	
OCT 10, 74	1235	2	.3	--	320	66	6.90
MAY 21, 75	1815	2	.3	--	530	120	.60
						LINE 110	
OCT 10, 74	1130	2	.3	--	*	24	5.00
MAY 21, 75	1545	2	.3	--	150	40	.10
						LINE 136	
OCT 10, 74	1050	2	.3	--	0	24	7.80
MAY 21, 75	1520	2	.3	280	76	82	.10
						LINE 903	
OCT 10, 74	0940	30	.3	8	3	0	--

* - TOO NUMEROUS TO COUNT

East Matagorda Estuary

The East Matagorda estuary covers an area of about 56 square miles (145 km^2) and consists of East Matagorda Bay, part of the Intracoastal Waterway, the tidal reaches of Caney Creek and Live Oak Bayou, and the tidal part of small tributaries (Figure 4). The maximum water depth at mlw is 5 feet (1.5 m) in East Matagorda Bay and about 15 feet (4.6 m) in the Intracoastal Waterway.

Water-quality data (Table 3) were collected during October 1974 and January and May 1975.

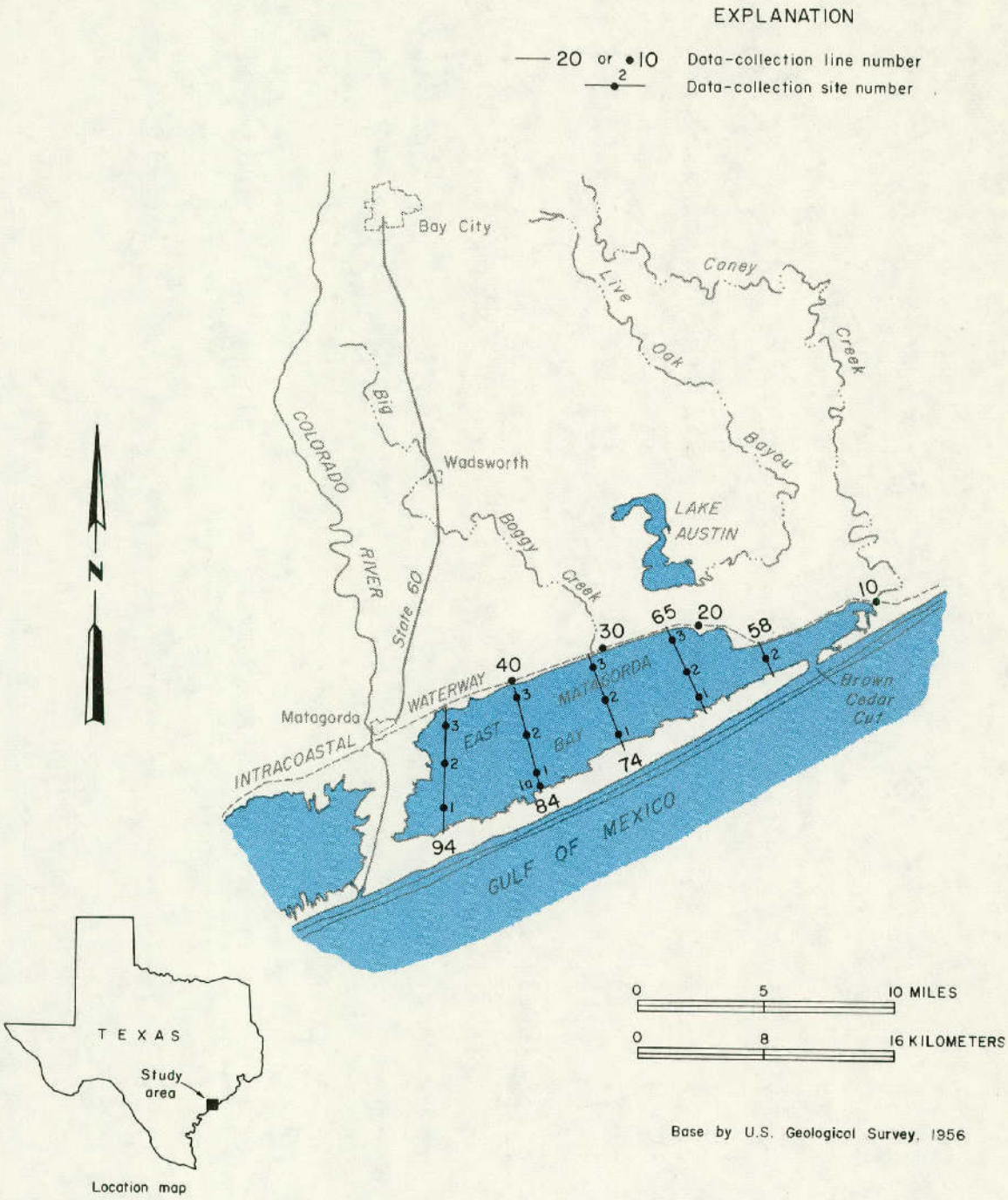

Figure 4.—Data-Collection Sites in the East Matagorda Estuary

TABLE 3A--QUALITY OF WATER IN THE EAST MATAGORDA ESTUARY,

1975 WATER YEAR

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
						LINE 10				
OCT 11, 74	1145	2	.3	24000	25.6	8.0	10.8	140	20.	43
			1.5	26000	25.5	8.1	10.3	136	20.	--
			4.3	26000	25.4	8.1	10.3	136	50.	--
JAN 23, 75	1310	2	.3	26000	14.0	8.3	8.5	89	--	29
			1.5	26000	14.0	8.3	8.5	89	--	--
			3.0	26000	14.0	8.3	8.4	88	--	--
			4.6	26000	14.0	8.3	8.4	88	--	--
MAY 22, 75	1420	2	.3	23000	28.3	8.1	7.1	97	--	21
			1.5	25000	28.0	8.1	6.4	89	--	--
			3.0	25000	28.0	8.1	6.4	89	--	--
			4.6	25000	28.0	8.1	6.4	89	--	--
						LINE 20				
OCT 11, 74	1210	2	.3	26000	25.9	8.0	7.9	105	20.	58
			1.5	26000	25.6	8.0	7.6	100	40.	--
			4.0	26000	25.6	8.0	7.9	104	30.	--
JAN 23, 75	1350	2	.3	22000	14.7	8.3	7.6	80	--	43
			1.8	24000	14.7	8.3	7.4	78	--	--
			3.7	24000	14.7	8.3	7.6	80	--	--
MAY 22, 75	1450	2	.3	24000	28.0	8.2	7.4	101	--	21
			1.5	24000	28.0	8.2	7.2	99	--	--
			3.0	25000	28.0	8.2	7.0	97	--	--
			4.3	25000	28.0	8.2	6.9	96	--	--
						LINE 40				
OCT 11, 74	1230	2	.3	19000	25.8	8.1	8.7	113	10.	53
			1.5	20000	25.7	8.1	8.0	104	10.	--
			3.0	23000	25.5	8.1	7.8	101	20.	--
			4.9	26000	25.2	8.1	7.9	103	65.	--
JAN 23, 75	1410	2	.3	14000	14.0	8.4	8.2	82	--	32
			1.8	18000	14.1	8.4	8.2	84	--	--
			3.7	19000	14.1	8.4	8.7	89	--	--
MAY 22, 75	1700	2	.3	19000	28.0	8.0	8.0	106	--	28
			1.8	20000	28.0	8.1	8.8	121	--	--
			3.7	20000	28.0	8.1	8.8	121	--	--
						LINE 58				
OCT 11, 74	1050	2	.3	33000	24.7	8.1	8.2	111	50.	43
			1.2	33000	24.8	8.1	8.6	116	80.	--
JAN 23, 75	1230	2	.3	30000	13.9	8.2	8.4	91	--	39
			.9	30000	13.9	8.2	8.7	95	--	--
MAY 22, 75	1510	2	.3	24000	28.1	8.0	7.0	96	--	20
			1.1	24000	28.2	8.1	7.2	99	--	--
						LINE 74				
OCT 11, 74	1000	1	.3	30000	24.7	8.1	7.1	95	10.	71
			1.2	30000	24.7	8.1	7.2	97	10.	--
JAN 23, 75	1145	1	.3	22000	13.1	8.3	9.3	95	--	64
			.9	22000	13.1	8.3	9.7	99	--	--

TABLE 3A--QUALITY OF WATER IN THE EAST MATAGORDA ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 74 CONTINUED					
MAY 22, 75	1530	1	.3	27000	28.2	8.2	7.5	106	--	25
			1.1	27000	28.1	8.2	7.8	110	--	--
OCT 11, 74	1005	2	.3	30000	24.8	8.1	7.7	103	15.	71
			1.5	30000	24.8	8.1	7.7	103	15.	--
JAN 23, 75	1155	2	.3	22000	13.1	8.3	9.0	92	--	36
			1.2	22000	13.2	8.3	9.3	95	--	--
MAY 22, 75	1540	2	.3	27000	28.2	8.2	8.5	120	--	23
			.9	27000	28.2	8.1	7.5	106	--	--
			1.4	27000	28.2	8.1	7.5	106	--	--
OCT 11, 74	1010	3	.3	28000	25.0	8.2	7.8	103	50.	41
			1.2	28000	25.0	8.2	7.8	103	50.	--
JAN 23, 75	1205	3	.3	20000	13.2	8.3	8.9	90	--	60
			1.2	21000	13.2	8.3	8.5	86	--	--
MAY 22, 75	1550	3	.3	27000	28.0	8.1	8.4	118	--	14
			1.2	27000	28.0	8.1	7.9	111	--	--
					LINE 94					
OCT 11, 74	0925	1	.3	31000	24.7	8.0	6.5	87	10.	79
			1.2	31000	24.6	8.0	7.0	93	10.	--
JAN 23, 75	1115	1	.3	22000	12.9	8.2	9.1	93	--	31
			1.2	22000	13.0	8.1	8.9	91	--	--
MAY 22, 75	1650	1	.3	28000	28.0	8.1	7.2	101	--	30
			1.2	28000	28.4	8.1	7.4	104	--	--
OCT 11, 74	0910	2	.3	29000	24.9	8.0	7.2	95	20.	41
			1.2	29000	24.8	8.0	7.2	95	30.	--
JAN 23, 75	1105	2	.3	20000	13.1	8.2	9.1	92	--	28
			1.2	20000	13.0	8.2	9.3	94	--	--
MAY 22, 75	1640	2	.3	27000	28.3	8.0	9.4	132	--	24
			1.1	27000	28.3	8.0	10.0	141	--	--
OCT 11, 74	0905	3	.3	28000	24.7	8.1	7.2	95	65.	26
			.9	28000	24.6	8.0	7.2	95	70.	--
JAN 23, 75	1050	3	.3	16000	13.0	8.3	9.3	93	--	32
			.9	19000	12.9	8.2	9.4	94	--	--
MAY 22, 75	1625	3	.3	21000	29.0	8.2	10.4	144	--	17
			.8	20000	28.9	8.3	10.9	151	--	--

TABLE 3B--QUALITY OF WATER IN THE EAST MATAGORDA ESTUARY,

1975 WATER YEAR

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 10						
OCT 11, 74	1145	2	.3	6.8	.00	.01	.00	--	.09	1.7	4	--
			4.3	--	.00	.03	.01	--	.12	1.5	0	--
JAN 23, 75	1310	2	.3	3.4	.12	.15	.00	--	.09	1.6	--	--
			4.6	3.4	.10	.12	.00	--	.09	1.5	--	--
MAY 22, 75	1420	2	.3	3.6	.00	.07	.02	--	.08	1.1	0	7.0
			4.6	3.2	.19	.13	.02	--	.11	--	0	6.3
						LINE 40						
OCT 11, 74	1230	2	.3	--	.01	.00	.00	--	.06	1.9	0	--
			4.9	--	.01	.01	.00	--	.01	1.3	1	--
JAN 23, 75	1410	2	.3	--	.22	.00	.01	--	.08	1.1	--	--
			3.7	--	.06	.01	.00	--	.07	1.2	--	--
MAY 22, 75	1700	2	.3	--	.17	.02	.03	--	.14	1.8	1	11.0
			3.7	--	.08	.03	.02	--	.14	2.0	0	11.0
						LINE 58						
OCT 11, 74	1050	2	.3	--	.00	.00	.00	--	.09	1.0	1	--
			1.2	--	.01	.00	.00	--	.10	1.9	0	--
JAN 23, 75	1230	2	.3	--	.03	.04	.00	--	.07	1.5	--	--
			.9	--	.04	.05	.00	--	.07	1.4	--	--
MAY 22, 75	1510	2	.3	--	.12	.09	.03	--	.16	1.7	2	11.0
			1.1	--	.03	.10	.03	--	.14	1.6	2	11.0
						LINE 74						
OCT 11, 74	1010	3	.3	--	.00	.00	.00	--	.08	1.1	0	--
			1.2	--	.00	.00	.00	--	.08	.8	1	--
JAN 23, 75	1205	3	.3	--	.07	.01	.01	--	.06	1.3	--	--
			1.2	--	.06	.00	.00	--	.06	4.2	--	--
MAY 22, 75	1550	3	.3	--	.00	.01	.01	--	.16	1.7	0	8.2
			1.2	--	.00	.02	.02	--	.15	1.8	0	12.0
						LINE 94						
OCT 11, 74	0925	1	.3	.0	.01	.01	.00	--	.06	.4	2	--
			1.2	4.8	.00	.01	.00	--	.06	.5	1	--
JAN 23, 75	1115	1	.3	1.8	.01	.01	.00	--	.06	1.0	--	--
			1.2	1.8	.00	.01	.00	--	.06	1.1	--	--
MAY 22, 75	1650	1	.3	3.3	.00	.03	.02	--	.08	1.5	1	7.9
			1.2	3.6	.00	.03	.02	--	.07	1.9	1	10.0

TABLE 3C--QUALITY OF WATER IN THE EAST MATAGORDA ESTUARY,

1975 WATER YEAR

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (LAB)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
						LINE 10						
OCT 11, 74	1145	2	.3	24200	210.0	590.0	5000	190.0	160	1300	8700	16100
			4.3	25300	--	--	--	--	--	--	--	--
JAN 23, 75	1310	2	.3	25400	200.0	600.0	4900	200.0	152	1200	8800	16000
			4.6	25700	210.0	600.0	5200	200.0	154	1300	9000	16600
MAY 22, 75	1420	2	.3	23200	190.0	570.0	4400	160.0	150	1000	7800	14200
			4.6	25100	210.0	550.0	4900	180.0	136	1100	8700	15800
						LINE 40						
OCT 11, 74	1230	2	.3	18100	--	--	--	--	--	--	--	--
			4.9	24700	--	--	--	--	--	--	--	--
JAN 23, 75	1410	2	.3	12200	--	--	--	--	--	--	--	--
			3.7	28800	--	--	--	--	--	--	--	--
MAY 22, 75	1700	2	.3	18700	--	--	--	--	--	--	--	--
			3.7	20300	--	--	--	--	--	--	--	--
						LINE 58						
OCT 11, 74	1050	2	.3	34200	--	--	--	--	--	--	--	--
			1.2	34600	--	--	--	--	--	--	--	--
JAN 23, 75	1230	2	.3	28000	--	--	--	--	--	--	--	--
MAY 22, 75	1510	2	.3	24200	--	--	--	--	--	--	--	--
			1.1	23800	--	--	--	--	--	--	--	--
						LINE 74						
OCT 11, 74	1010	3	.3	26200	--	--	--	--	--	--	--	--
			1.2	26500	--	--	--	--	--	--	--	--
JAN 23, 75	1205	3	.3	20800	--	--	--	--	--	--	--	--
			1.2	20700	--	--	--	--	--	--	--	--
MAY 22, 75	1550	3	.3	27300	--	--	--	--	--	--	--	--
			1.2	27300	--	--	--	--	--	--	--	--
						LINE 94						
OCT 11, 74	0925	1	.3	29200	250.0	730.0	6300	250.0	168	1600	11000	20200
			1.2	29200	250.0	720.0	6000	190.0	164	1500	11000	19700
JAN 23, 75	1115	1	.3	23400	180.0	530.0	4400	180.0	149	1100	8200	14700
			1.2	23600	200.0	570.0	4800	190.0	150	1200	8900	15900
MAY 22, 75	1650	1	.3	27500	200.0	730.0	5500	220.0	165	1200	10000	17900
			1.2	28200	200.0	750.0	5600	220.0	172	1300	10000	18200

TABLE 30--QUALITY OF WATER IN THE EAST MATAGORDA ESTUARY,

1975 WATER YEAR

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 10					
OCT 11, 74	1145	2	.3	20	1	3	--	1	0	--	--
			4.3	--	--	--	38	--	--	< 10.00	--
JAN 23, 75	1310	2	.3	--	--	--	--	--	--	--	.9
			4.6	--	--	--	--	--	--	--	.9
MAY 22, 75	1420	2	.3	--	--	--	--	--	--	--	.9
			4.6	--	--	--	--	--	--	--	.9
						LINE 58					
OCT 11, 74	1050	2	.3	10	0	3	--	0	1	--	--
			1.2	--	--	--	7	--	--	< 10.00	--
						LINE 74					
OCT 11, 74	1010	3	.3	0	2	--	--	0	--	--	--
			1.2	--	--	--	13	--	--	< 10.00	--
						LINE 94					
OCT 11, 74	0925	1	.3	10	2	2	--	1	0	--	--
			1.2	--	--	--	13	--	--	< 10.00	--
JAN 23, 75	1115	1	.3	--	--	--	--	--	--	--	.8
			1.2	--	--	--	--	--	--	--	.8
MAY 22, 75	1650	1	.3	--	--	--	--	--	--	--	1.0
			1.2	--	--	--	--	--	--	--	1.0

TABLE 3C--QUALITY OF WATER IN THE EAST MATAGORDA ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	BOTTOM DEPOSIT COBALT (CO) (UG/GM)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	BOTTOM DEPOSIT COPPER (CU) (UG/GM)
						LINE 10					
OCT 11, 74	1145	2	.3	1.00	10.00	0	3	--	3	3.0	--
			4.3	--	--	--	--	< 10.00	--	--	< 10.00
						LINE 58					
OCT 11, 74	1050	2	.3	1.00	10.00	4	4	--	3	7.0	--
			1.2	--	--	--	--	< 10.00	--	--	< 10.00
						LINE 74					
OCT 11, 74	1010	3	.3	1.00	--	4	--	--	6	--	--
			1.2	--	--	--	--	< 10.00	--	--	< 10.00
						LINE 94					
OCT 11, 74	0925	1	.3	1.00	10.00	0	3	--	6	9.0	--
			1.2	--	--	--	--	< 10.00	--	--	< 10.00

TABLE 30--QUALITY OF WATER IN THE EAST MATAGORDA ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CYANIDE (CN) (MG/L)	BOTTOM DEPOSIT CYANIDE (CN) (UG/GM)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	BOTTOM DEPOSIT IRON (FE) (UG/GM)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	BOTTOM DEPOSIT LEAD (PB) (UG/GM)
						LINE 10					
OCT 11, 74	1145	2	.3	--	--	90	370	--	1	5	--
			4.3	--	.0	--	--	--	--	--	< 10.00
						LINE 58					
OCT 11, 74	1050	2	.3	--	--	110	1600	--	7	5	--
			1.2	--	.0	--	--	--	--	--	< 10.00
						LINE 74					
OCT 11, 74	1010	3	.3	--	--	100	--	--	9	--	--
			1.2	--	.0	--	--	--	--	--	< 10.00
						LINE 94					
OCT 11, 74	0925	1	.3	--	--	80	230	--	2	3	--
			1.2	--	.0	--	--	--	--	--	< 10.00

TABLE 30--QUALITY OF WATER IN THE EAST MATAGORDA ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED LITH-IUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BOTTOM DEPOSIT MAN-GANESE (MN) (UG/GM)	DIS-SOLVED MER-CURY (HG) (UG/L)	TOTAL MER-CURY (HG) (UG/L)	BOTTOM DEPOSIT MER-CURY (HG) (UG/GM)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
						LINE 10						
OCT 11, 74	1145	2	.3	83	63	95	--	.0	.3	--	1	3100
			4.3	--	--	--	500	--	--	.1	--	--
						LINE 58						
OCT 11, 74	1050	2	.3	100	40	110	--	.3	.4	--	1	3000
			1.2	--	--	--	260	--	--	.1	--	--
						LINE 74						
OCT 11, 74	1010	3	.3	92	32	--	--	.2	--	--	2	3000
			1.2	--	--	--	280	--	--	.2	--	--
						LINE 94						
OCT 11, 74	0925	1	.3	100	60	100	--	.1	.5	--	4	3600
			1.2	--	--	--	380	--	--	.1	--	--

TABLE 30--QUALITY OF WATER IN THE EAST MATAGORDA ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	BOTTOM DEPOSIT ZINC (ZN) (UG/GM)					
						LINE 10					
OCT 11, 74	1145	2	.3	30	20	--					
			4.3	--	--	20.00					
						LINE 58					
OCT 11, 74	1050	2	.3	30	30	--					
			1.2	--	--	20.00					
						LINE 74					
OCT 11, 74	1010	3	.3	30	--	--					
			1.2	--	--	20.00					
						LINE 94					
OCT 11, 74	0925	1	.3	60	50	--					
			1.2	--	--	40.00					

TABLE 3E--QUALITY OF WATER IN THE EAST MATAGORDA ESTUARY,

1975 WATER YEAR

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL ALDRIN (UG/L)	BOTTOM DEPOSIT ALDRIN (UG/KG)	TOTAL CHLOR-DANE (UG/L)	BOTTOM DEPOSIT CHLOR-DANE (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDD (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDE (UG/KG)
						LINE 58					
OCT 11, 74	1050	2	.3	.00	--	.0	--	.00	--	.00	--
			1.2	--	.0	--	.0	--	.0	--	.7
						LINE 74					
OCT 11, 74	1010	3	.3	.00	--	.0	--	.00	--	.00	--
			1.2	--	.0	--	.0	--	.0	--	.0

TABLE 3E--QUALITY OF WATER IN THE EAST MATAGORDA ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL DDT (UG/L)	BOTTOM DEPOSIT DDT (UG/KG)	TOTAL DIEL-DRIN (UG/L)	BOTTOM DEPOSIT DIEL-DRIN (UG/KG)	TOTAL ENDRIN (UG/L)	BOTTOM DEPOSIT ENDRIN (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR (UG/KG)
						LINE 58					
OCT 11, 74	1050	2	.3	.00	--	.00	--	.00	--	.00	--
			1.2	--	.0	--	.0	--	.0	--	.0
						LINE 74					
OCT 11, 74	1010	3	.3	.00	--	.00	--	.00	--	.00	--
			1.2	--	.0	--	.0	--	.0	--	.0

TABLE 3E--QUALITY OF WATER IN THE EAST MATAGORDA ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR EPOXIDE (UG/KG)	TOTAL LINDANE (UG/L)	BOTTOM DEPOSIT LINDANE (UG/KG)	TOTAL PARA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL DIAZ-INON (UG/L)
						LINE 56					
OCT 11, 74	1050	2	.3	.00	--	.00	--	.00	.00	.00	.00
			1.2	--	.0	--	.0	--	--	--	--
						LINE 74					
OCT 11, 74	1010	3	.3	.00	--	.00	--	.00	.00	.00	.00
			1.2	--	.0	--	.0	--	--	--	--

TABLE 3E--QUALITY OF WATER IN THE EAST MATAGORDA ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL PCB (UG/L)	BOTTOM DEPOSIT PCB (UG/KG)	TOTAL 2,4-D (UG/L)	BOTTOM DEPOSIT 2,4-D (UG/KG)	TOTAL 2,4,5-T (UG/L)	BOTTOM DEPOSIT 2,4,5-T (UG/KG)	TOTAL SILVEX (UG/L)	BOTTOM DEPOSIT SILVEX (UG/KG)
						LINE 58					
OCT 11, 74	1050	2	.3	.0	--	.00	--	.00	--	.00	--
			1.2	--	.0	--	--	--	--	--	--
						LINE 74					
OCT 11, 74	1010	3	.3	.0	--	.00	--	.00	--	.00	--
			1.2	--	.0	--	--	--	--	--	--

TABLE 3E--QUALITY OF WATER IN THE EAST MATAGORDA ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL TOXA-PHENE (UG/L)	BOTTOM DEPOSIT TOXA-PHENE (UG/KG)	TOTAL ETHION (UG/L)	BOTTOM DEPOSIT ETHION (UG/KG)	TOTAL METHYL TRI-THION (UG/L)	BOTTOM DEPOSIT METHYL TRI-THION (UG/KG)	TOTAL TRI-THION (UG/L)	BOTTOM DEPOSIT TRI-THION (UG/KG)
						LINE 58					
OCT 11, 74	1050	2	.3	.0	--	--	--	--	--	--	--
			1.2	--	0.	--	--	--	--	--	--
						LINE 74					
OCT 11, 74	1010	3	.3	.0	--	--	--	--	--	--	--
			1.2	--	0.	--	--	--	--	--	--

TABLE 3F--QUALITY OF WATER IN THE EAST MATAGORDA ESTUARY,

1975 WATER YEAR

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
						LINE 10	
OCT 11, 74	1145	2	.3	148	80	10	--
MAY 22, 75	1420	2	.3	--	12	10	1.40
						LINE 40	
OCT 11, 74	1230	2	.3	28	4	5	--
MAY 22, 75	1700	2	.3	120	52	66	2.60
						LINE 58	
OCT 11, 74	1050	2	.3	--	78	1	--
MAY 22, 75	1510	2	.3	--	6	46	.90
						LINE 74	
OCT 11, 74	1010	3	.3	--	86	12	--
MAY 22, 75	1550	3	.3	2	2	8	1.50
						LINE 94	
OCT 11, 74	0925	1	.3	24	8	4	--
MAY 22, 75	1650	1	.3	0	0	0	1.40

Colorado Estuary

The Colorado estuary covers an area of about 2 square miles (5 km^2) and consists of the tidal part of the Colorado River and part of the Intracoastal Waterway (Figure 5). The minimum depth at mlw is about 6 feet (1.8 m) in the river channel and about 15-feet (4.6 m) in the Intracoastal Waterway.

Water-quality data (Table 4) were collected during October 1974 and January and May 1975.

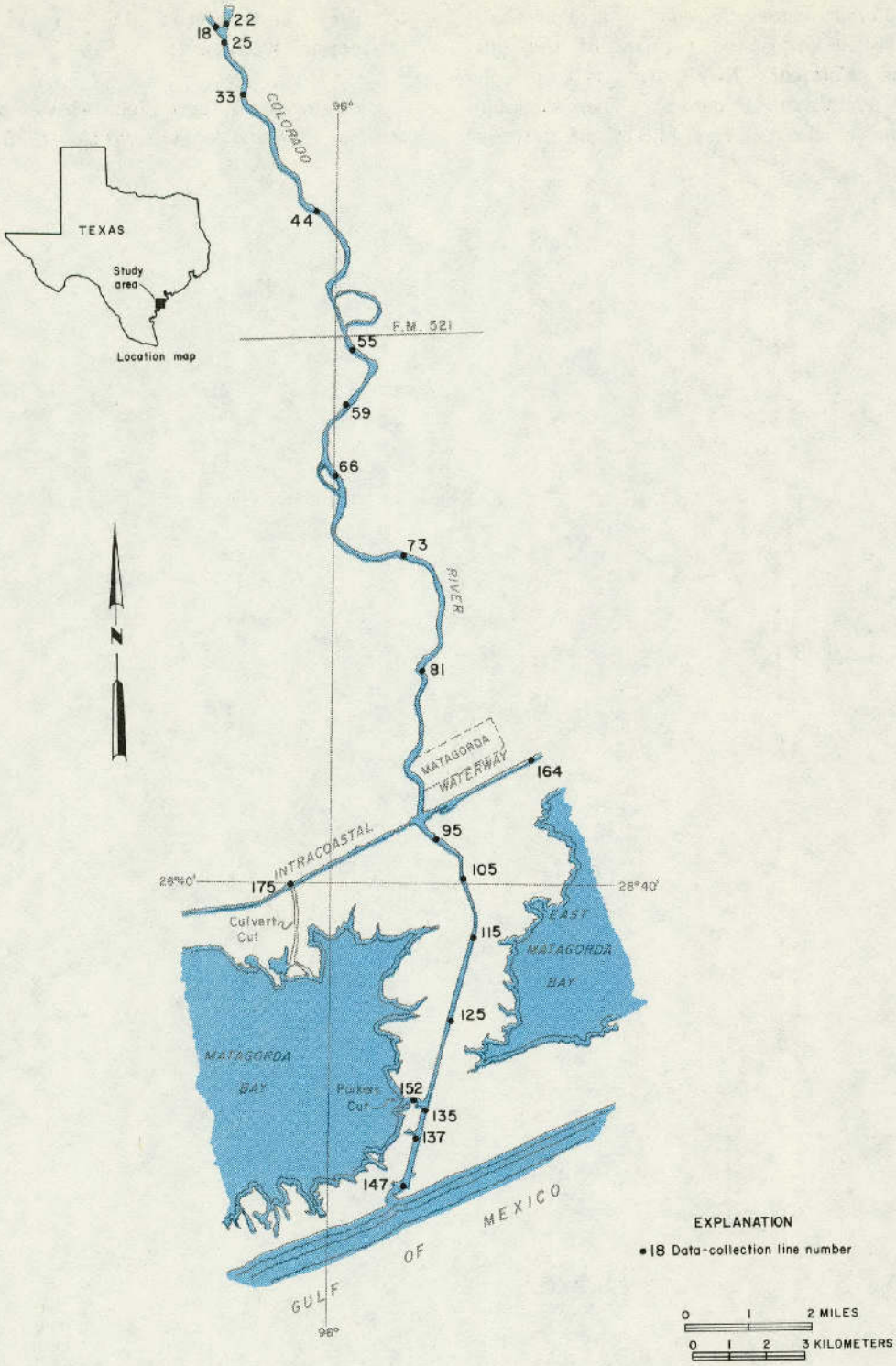

Figure 5
Data-Collection Sites in the Colorado Estuary

Base by U.S. Geological Survey, 1956

TABLE 4A--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
						LINE 18				
OCT 11, 74	1120	2	.3	500	25.0	7.9	8.4	100	70.	30
			3.0	500	25.0	7.9	8.4	100	75.	--
			5.2	500	25.0	7.9	8.5	101	75.	--
JAN 23, 75	1225	2	.3	570	13.6	8.0	10.0	95	30.	26
			1.5	570	13.6	8.0	9.8	93	35.	--
			3.4	570	13.6	8.0	9.6	90	20.	--
MAY 22, 75	1400	2	.3	510	26.9	--	7.7	95	110.	14
			1.8	510	27.0	--	7.7	95	110.	--
						LINE 55				
OCT 11, 74	1055	2	.3	500	25.0	7.9	8.2	98	70.	30
			1.5	500	25.0	7.9	8.2	98	70.	--
			3.0	500	25.0	7.9	8.2	98	75.	--
			4.9	500	25.0	7.9	8.4	100	80.	--
JAN 23, 75	1200	2	.3	570	13.4	8.0	9.6	91	30.	49
			1.5	570	13.4	8.0	9.7	92	30.	--
			3.0	570	13.4	8.0	10.0	95	30.	--
			4.3	570	13.5	8.0	10.2	97	40.	--
MAY 22, 75	1430	2	.3	500	26.5	--	7.6	93	95.	19
			2.1	500	26.5	--	7.6	93	100.	--
			4.3	500	26.5	--	7.5	91	105.	--
						LINE 81				
OCT 11, 74	1030	2	.3	500	25.0	7.8	8.0	95	40.	36
			3.0	500	25.0	7.8	8.0	95	55.	--
			6.1	500	25.0	7.8	8.0	95	65.	--
			9.4	500	25.0	7.8	8.1	96	500.	--
JAN 23, 75	1140	2	.3	570	13.2	8.1	10.1	95	20.	42
			1.5	570	13.2	8.1	10.1	95	15.	--
			3.0	570	13.2	8.1	10.1	95	25.	--
			6.1	570	13.1	8.1	10.1	95	35.	--
			12.2	570	13.1	8.1	10.2	96	60.	--
MAY 22, 75	1445	2	.3	500	26.6	--	7.8	96	60.	31
			4.0	500	26.5	--	7.8	95	70.	--
			7.9	500	26.5	--	7.6	93	95.	--
						LINE 95				
OCT 11, 74	1015	2	.3	540	25.0	7.9	8.2	98	40.	32
			1.5	540	25.0	7.9	8.2	98	50.	--
			3.0	5000	25.0	7.9	8.1	98	55.	--
			4.9	15000	25.0	7.7	7.2	90	50.	--
JAN 23, 75	1110	2	.3	1200	13.3	8.4	9.9	94	20.	48
			1.5	1200	13.2	8.1	9.8	92	90.	--
			3.0	8000	13.2	8.0	9.5	91	90.	--
			4.9	32000	14.1	8.1	8.9	97	240.	--
MAY 22, 75	1545	2	.3	900	26.7	--	8.0	99	55.	27
			2.1	1300	26.5	--	7.8	95	60.	--
			3.0	1400	26.5	--	7.8	95	60.	--
			3.7	7000	26.5	--	7.1	89	--	--
			4.0	30000	26.5	--	5.1	71	140.	--
						LINE 115				
OCT 11, 74	0940	2	.3	1200	25.0	8.0	7.8	92	20.	51

TABLE 4A--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
					LINE 119 CONTINUED					
OCT 11, 74	0940	2	1.5	1600	25.0	8.1	7.9	94	20.	--
			3.0	21000	25.5	7.9	6.6	86	20.	--
			6.1	40000	26.0	8.0	6.2	89	75.	--
JAN 23, 75	1055	2	.3	2200	13.3	8.1	9.8	94	10.	43
			1.5	2200	13.3	8.1	9.8	94	10.	--
			3.0	26000	14.0	8.1	8.7	92	5.	--
			5.5	36000	14.3	8.1	8.2	92	5.	--
MAY 22, 75	1600	2	.3	910	26.9	--	8.3	102	45.	30
			2.4	7000	26.5	--	7.2	90	140.	--
			4.6	34000	26.8	--	6.1	86	30.	--
					LINE 137					
MAY 22, 75	1615	2	.3	18000	27.6	--	7.8	105	50.	39
			1.5	34000	27.7	--	6.8	97	65.	--
					LINE 147					
OCT 10, 74	0910	2	.3	7000	25.0	7.9	8.1	99	20.	46
			1.2	12000	25.0	7.9	7.8	96	25.	--
			1.8	24000	25.0	7.9	7.6	97	10.	--
JAN 23, 75	1030	2	.3	36000	14.0	8.1	8.2	91	425.	23
			1.5	36000	14.0	8.2	8.2	91	400.	--
			3.0	36000	13.9	8.1	8.6	96	--	--
					LINE 152					
OCT 10, 74	0925	2	.3	9700	25.0	8.0	7.9	96	20.	64
			1.5	20000	25.0	7.9	7.4	94	20.	--
			3.0	32000	25.0	7.9	7.1	95	15.	--
JAN 23, 75	1045	2	.3	15000	13.5	8.1	9.2	92	240.	26
			1.5	17000	13.5	8.1	9.2	93	190.	--
			3.7	31000	13.2	8.1	8.8	94	400.	--
MAY 22, 75	1610	2	.3	8000	27.2	--	7.9	100	40.	41
			1.5	32000	27.0	--	6.7	93	50.	--
			3.0	32000	27.0	--	6.7	93	50.	--
					LINE 164					
OCT 11, 74	1250	2	.3	3900	25.6	8.1	9.3	113	20.	51
			1.5	4400	25.6	8.0	8.9	108	15.	--
			3.0	11000	25.6	8.0	9.2	114	15.	--
			4.6	17000	25.6	8.0	10.3	122	25.	--
JAN 23, 75	1305	2	.3	5700	13.8	7.8	9.0	88	15.	41
			1.5	6000	13.5	7.8	9.6	93	15.	--
			3.0	6500	13.4	7.8	9.2	89	10.	--
			4.9	7000	13.4	7.8	9.4	91	20.	--
MAY 22, 75	1530	2	.3	1800	27.0	--	7.8	96	90.	21
			2.4	2100	26.6	--	7.6	95	100.	--
			4.9	2600	26.6	--	7.4	92	120.	--
					LINE 175					
OCT 11, 74	1220	2	.3	550	25.0	7.9	8.4	100	30.	43
			3.0	600	25.0	7.9	8.3	99	30.	--
			5.8	550	25.0	7.9	8.2	98	50.	--
JAN 23, 75	1120	2	.3	6500	13.3	8.0	9.7	94	20.	46

TABLE 4A--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
LINE 175 CONTINUED										
JAN 23, 75	1120	2	1.5	6700	13.3	7.9	9.5	92	20.	--
			3.0	7000	13.3	7.9	9.5	92	30.	--
			4.9	7000	13.3	7.9	9.5	92	30.	--
MAY 22, 75	1510	2	.3	1100	26.6	--	7.8	96	80.	24
			2.4	1100	26.6	--	7.7	95	90.	--
			4.6	1100	26.5	--	7.7	94	120.	--

TABLE 4B--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 18						
OCT 11, 74	1120	2	.3	9.5	.27	.01	.00	--	.15	.5	0	4.3
			5.2	9.3	.27	.01	.00	--	.14	.5	0	--
JAN 23, 75	1225	2	.3	11.0	.39	.00	.00	--	.14	1.0	--	--
			3.4	11.0	.60	.00	.00	--	.13	1.0	--	--
MAY 22, 75	1400	2	.3	9.4	.47	.00	.01	--	.14	.9	2	5.5
			1.8	9.5	.47	.00	.01	--	.14	.6	2	5.3
						LINE 81						
OCT 11, 74	1030	2	.3	--	.14	.00	.00	--	.11	.7	1	3.7
			9.4	--	.25	.00	.00	--	.20	1.4	4	--
JAN 23, 75	1140	2	.3	--	.43	.00	.00	--	.11	1.1	--	--
			12.2	--	.60	.00	.00	--	.13	1.3	--	--
MAY 22, 75	1445	2	.3	--	.47	.00	.00	--	.11	.8	2	8.4
			7.9	--	.45	.00	.01	--	.13	.8	2	9.4
						LINE 115						
OCT 11, 74	0940	2	.3	9.8	.26	.00	.00	--	.09	1.0	2	2.7
			6.1	1.0	.00	.02	.00	--	.08	1.1	1	--
JAN 23, 75	1055	2	.3	10.0	.36	.01	.00	--	.11	1.0	--	--
			5.5	1.2	.04	.04	.00	--	.06	1.2	--	--
MAY 22, 75	1600	2	.3	9.5	.48	.00	.00	--	.10	.7	2	4.3
			4.6	1.1	.04	.07	.02	--	.08	.6	0	3.9

TABLE 4C--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
						LINE 18						
OCT 11, 74	1120	2	.3	472	43.0	18.0	26	3.5	180	29	45	263
			5.2	476	43.0	20.0	22	4.2	180	30	46	264
JAN 23, 75	1225	2	.3	556	53.0	17.0	32	4.0	206	35	51	305
			3.4	570	54.0	17.0	30	4.0	205	35	50	302
MAY 22, 75	1400	2	.3	506	51.0	17.0	26	3.6	188	33	45	278
			1.8	506	52.0	17.0	26	3.5	189	33	45	280
						LINE 81						
OCT 11, 74	1030	2	.3	488	--	--	--	--	--	--	--	--
			9.4	498	--	--	--	--	--	--	--	--
JAN 23, 75	1140	2	.3	559	--	--	--	--	--	--	--	--
			12.2	557	--	--	--	--	--	--	--	--
MAY 22, 75	1445	2	.3	501	--	--	--	--	--	--	--	--
			7.9	505	--	--	--	--	--	--	--	--
						LINE 115						
OCT 11, 74	0940	2	.3	1190	47.0	32.0	130	8.5	180	56	250	623
			6.1	37600	260.0	940.0	8300	310.0	146	2000	14000	25900
JAN 23, 75	1055	2	.3	2260	64.0	48.0	320	15.0	200	99	560	1210
			5.5	39200	290.0	870.0	7600	310.0	140	1800	14000	24900
MAY 22, 75	1600	2	.3	910	52.0	23.0	96	6.0	186	47	160	486
			4.6	33900	260.0	810.0	6400	240.0	133	1400	12000	21200

TABLE 40--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 18					
OCT 11, 74	1120	2	.3	20	1	3	--	0	0	--	--
			5.2	--	--	--	5	--	--	< 10.00	--
JAN 23, 75	1225	2	.3	--	--	--	--	--	--	--	.3
			3.4	--	--	--	--	--	--	--	.3
MAY 22, 75	1400	2	.3	--	--	--	--	--	--	--	.6
			1.8	--	--	--	--	--	--	--	.4
						LINE 115					
OCT 11, 74	0940	2	.3	10	1	2	--	3	0	--	--
			6.1	20	1	--	10	1	--	< 10.00	--
JAN 23, 75	1055	2	.3	--	--	--	--	--	--	--	.3
			5.5	--	--	--	--	--	--	--	.9
MAY 22, 75	1600	2	.3	--	--	--	--	--	--	--	.6
			4.6	--	--	--	--	--	--	--	1.0

TABLE 4D--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	BOTTOM DEPOSIT COBALT (CO) (UG/GM)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	BOTTOM DEPOSIT COPPER (CU) (UG/GM)
						LINE 18					
OCT 11, 74	1120	2	.3	.00	10.00	0	1	--	1	24.0	--
			5.2	--	--	--	--	10.00	--	--	< 10.00
						LINE 115					
OCT 11, 74	0940	2	.3	1.00	10.00	0	5	--	6	4.0	--
			6.1	.00	--	0	--	< 10.00	3	--	< 10.00

TABLE 4D--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CYANIDE (CN) (MG/L)	BOTTOM DEPOSIT CYANIDE (CN) (UG/GM)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	BOTTOM DEPOSIT IRON (FE) (UG/GM)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	BOTTOM DEPOSIT LEAD (PB) (UG/GM)
						LINE 18					
OCT 11, 74	1120	2	.3	--	--	0	2900	--	1	9	--
			5.2	--	.0	--	--	--	--	--	< 10.00
						LINE 115					
OCT 11, 74	0940	2	.3	--	--	10	170	--	3	8	--
			6.1	--	.0	100	--	--	1	--	< 10.00

TABLE 40--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED LITH-IUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BOTTOM DEPOSIT MAN-GANESE (MN) (UG/GM)	DIS-SOLVED MER-CURY (HG) (UG/L)	TOTAL MER-CURY (HG) (UG/L)	BOTTOM DEPOSIT MER-CURY (HG) (UG/GM)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
						LINE 18						
OCT 11, 74	1120	2	.3	0	17	110	--	.0	.2	--	0	340
			5.2	--	--	--	170	--	--	.1	--	--
						LINE 115						
OCT 11, 74	0940	2	.3	17	10	30	--	.0	.2	--	3	440
			6.1	120	940	--	250	.1	--	.1	3	4400

TABLE 4D--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	BOTTOM DEPOSIT ZINC (ZN) (UG/GM)					
						LINE 18					
OCT 11, 74	1120	2	.3	8	20	--					
			5.2	--	--	< 10.00					
						LINE 115					
OCT 11, 74	0940	2	.3	20	0	--					
			6.1	40	--	10.00					

TABLE 4E--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL ALDRIN (UG/L)	BOTTOM DEPOSIT ALDRIN (UG/KG)	TOTAL CHLOR-DANE (UG/L)	BOTTOM DEPOSIT CHLOR-DANE (UG/KG)	TOTAL DDD (UG/L)	BOTTOM DEPOSIT DDD (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDE (UG/KG)
LINE 115											
OCT 11, 74	0940	2	.3	.00	--	.0	--	.00	--	.00	--
			6.1	--	.0	--	2.0	--	6.5	--	7.9

TABLE 4E--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL DDT (UG/L)	BOTTOM DEPOSIT DDT (UG/KG)	TOTAL DIEL-DRIN (UG/L)	BOTTOM DEPOSIT DIEL-DRIN (UG/KG)	TOTAL ENDRIN (UG/L)	BOTTOM DEPOSIT ENDRIN (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR (UG/KG)
						LINE 115					
OCT 11, 74	0940	2	.3	.00	--	.00	--	.00	--	.00	--
			6.1	--	1.2	--	.0	--	.0	--	.0

TABLE 4E--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR EPOXIDE (UG/KG)	TOTAL LINDANE (UG/L)	BOTTOM DEPOSIT LINDANE (UG/KG)	TOTAL PARA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL DIAZ-INON (UG/L)
						LINE 115					
OCT 11, 74	0940	2	.3	.00	--	.00	--	.00	.00	.00	.00
			6.1	--	.0	--	.0	--	--	--	--

TABLE 4E--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL PCB (UG/L)	BOTTOM DEPOSIT PCB (UG/KG)	TOTAL 2,4-D (UG/L)	BOTTOM DEPOSIT 2,4-D (UG/KG)	TOTAL 2,4,5-T (UG/L)	BOTTOM DEPOSIT 2,4,5-T (UG/KG)	TOTAL SILVEX (UG/L)	BOTTOM DEPOSIT SILVEX (UG/KG)
						LINE 18					
OCT 11, 74	1120	2	.3	--	--	--	--	--	--	.00	--
						LINE 115					
OCT 11, 74	0940	2	.3	--	--	.00	--	.00	--	.00	--
			6.1	--	.0	--	--	--	--	--	--

TABLE 4E--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL TOXA-PHENE (UG/L)	BOTTOM DEPOSIT TOXA-PHENE (UG/KG)	TOTAL ETHION (UG/L)	BOTTOM DEPOSIT ETHION (UG/KG)	TOTAL METHYL TRI-THION (UG/L)	BOTTOM DEPOSIT METHYL TRI-THION (UG/KG)	TOTAL TRI-THION (UG/L)	BOTTOM DEPOSIT TRI-THION (UG/KG)
LINE 115											
OCT 11, 74	0940	2	.3	.0	--	--	--	--	--	--	--
			6.1	--	0.	--	--	--	--	--	--

TABLE 4F--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)
						LINE 18	
OCT 11, 74	1120	2	.3	--	140	114	3.20
MAY 22, 75	1400	2	.3	300	102	30	2.30
						LINE 81	
OCT 11, 74	1030	2	.3	--	94	66	--
MAY 22, 75	1445	2	.3	--	84	70	--
						LINE 115	
OCT 11, 74	0940	2	.3	120	31	57	1.70
MAY 22, 75	1600	2	.3	210	68	84	1.10

Lavaca-Tres Palacios Estuary

The Lavaca-Tres Palacios estuary covers about 350 square miles (907 km^2) and consists of the tidal parts of the Lavaca and Navidad Rivers, Tres Palacios Creek and other tributaries, Lavaca Bay, Cox Bay, Keller Bay, Carancahua Bay, Tres Palacios Bay, Matagorda Bay, Matagorda Bay Entrance Channel, Pass Cavallo, and part of the Intracoastal Waterway (Figure 6). Water depth at mlw is 13 feet (4.0 m) or less in Matagorda Bay, except in the Matagorda Ship Channel, which is more than 40 feet (12.2 m) deep. The rivers generally are less than 15 feet (4.6 m) deep.

Water-quality data (Table 5) were collected during October 1974 and February, April, June, and August 1975.

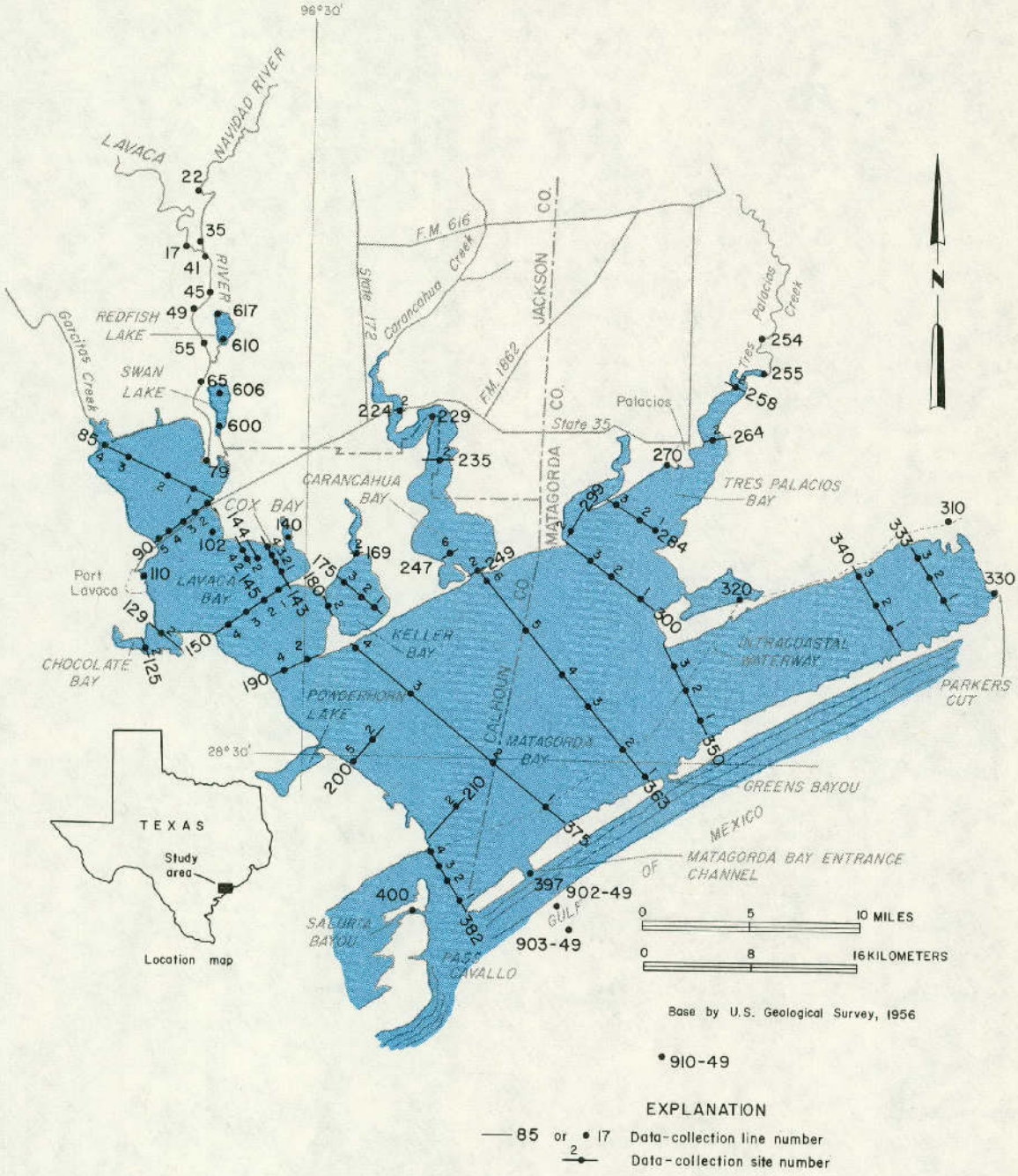

Figure 6.—Data-Collection Sites in the Lavaca-Tres Palacios Estuary

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
						LINE 17				
FEB 11, 75	1225	2	.3	750	13.7	8.0	8.9	85	25.	51
			1.5	750	13.4	7.9	8.8	84	30.	--
			3.4	750	13.3	7.8	9.0	86	40.	--
APR 10, 75	1610	2	.3	480	20.2	7.5	6.1	66	375.	4
			1.5	480	20.1	7.5	6.1	66	450.	--
			3.4	480	20.1	7.5	6.1	66	500.	--
JUN 09, 75	1515	2	.3	690	29.1	--	8.8	113	--	44
			1.5	550	28.2	--	6.9	87	55.	--
			3.4	550	27.9	--	5.5	70	40.	--
AUG 19, 75	1725	2	.3	590	30.6	7.5	13.5	180	20.	51
			1.5	670	30.2	7.1	6.5	86	20.	--
			3.0	700	30.6	7.2	6.4	85	--	--
						LINE 22				
FEB 11, 75	1150	2	.3	500	13.3	7.9	8.7	82	35.	44
			1.5	500	13.2	8.0	8.8	83	30.	--
			3.0	500	13.2	8.0	9.1	86	30.	--
APR 10, 75	1545	2	.3	340	20.4	7.7	6.3	69	440.	4
			1.5	340	20.4	7.7	6.2	68	440.	--
			3.7	350	20.3	7.6	6.2	67	410.	--
JUN 09, 75	1535	2	.3	540	29.1	--	6.9	88	20.	54
			1.5	450	28.7	--	6.7	86	15.	--
			3.0	400	28.1	--	5.8	73	20.	--
AUG 19, 75	1755	2	.3	490	30.7	7.1	13.6	161	40.	43
			1.2	530	33.0	7.7	11.8	162	50.	--
			2.4	570	31.3	7.2	5.8	77	50.	--
						LINE 45				
OCT 16, 74	0905	2	.3	700	21.1	8.0	8.2	92	20.	46
			1.5	700	21.0	7.9	8.3	92	5.	--
			3.0	700	21.0	7.9	8.3	92	10.	--
			3.4	700	21.2	7.9	8.2	92	20.	--
FEB 11, 75	1250	2	.3	550	12.4	7.9	9.0	84	55.	37
			1.5	1150	12.5	7.9	8.6	80	55.	--
			2.4	3900	12.6	7.9	8.5	79	40.	--
			3.4	5500	12.7	7.8	8.6	80	30.	--
APR 10, 75	1630	2	.3	460	20.4	7.5	6.0	66	210.	11
			1.5	750	20.4	7.5	6.0	66	240.	--
			3.4	3000	20.2	7.5	5.6	62	250.	--
JUN 09, 75	1305	2	.3	450	29.2	--	7.8	100	20.	57
			1.5	450	29.1	--	7.7	99	20.	--
			3.7	450	28.6	--	7.0	90	30.	--
AUG 19, 75	1715	2	.3	530	31.3	6.3	10.2	136	40.	35
			1.5	530	30.5	8.2	10.0	132	40.	--
			3.0	470	30.6	7.8	5.9	79	100.	--
						LINE 65				
OCT 16, 74	0930	2	.3	1000	20.0	8.0	7.0	76	20.	51
			1.5	1000	20.1	8.0	7.0	76	20.	--
			3.0	1000	19.7	8.0	6.8	73	20.	--

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 65 CONTINUED						
OCT 16, 74	0930	2	3.7	1000	19.7	8.0	6.8	73	10.	--
FEB 11, 75	1305	2	.3	2300	14.9	8.0	9.1	90	30.	45
			1.2	5000	14.9	8.0	9.0	89	25.	--
			1.8	16000	14.9	8.1	9.0	93	10.	--
			2.4	18000	14.9	8.1	8.6	90	10.	--
			4.0	18000	14.9	8.0	8.8	92	10.	--
APR 10, 75	1645	2	.3	3600	20.6	7.6	6.2	69	110.	14
			1.8	4200	20.6	7.6	6.0	67	95.	--
			2.7	22000	20.3	7.6	4.8	56	25.	--
			4.0	29000	20.2	7.5	4.2	51	5.	--
JUN 09, 75	1440	2	.3	970	29.4	--	7.1	92	90.	44
			1.5	1100	29.4	--	7.0	91	90.	--
			3.4	1100	28.8	--	7.0	91	45.	--
AUG 19, 75	1650	2	.3	1800	31.0	7.8	9.4	125	40.	35
			1.5	2000	30.0	7.6	8.0	107	40.	--
			3.0	1700	30.5	8.2	5.7	75	50.	--
				LINE 85						
OCT 16, 74	1005	1	.3	7600	18.5	8.0	8.2	89	65.	23
			.9	7600	18.5	8.0	8.2	89	60.	--
			1.8	25000	21.1	7.9	5.2	63	110.	--
FEB 11, 75	1330	1	.3	28000	12.7	8.2	9.7	101	10.	107
			1.8	28000	12.7	8.2	9.8	102	25.	--
JUN 09, 75	1330	1	.5	2200	29.1	8.2	7.2	94	250.	13
			1.5	2600	29.1	8.2	7.3	95	225.	--
			2.1	3000	28.8	8.3	7.5	97	245.	--
AUG 19, 75	1600	1	.3	12000	30.3	7.4	7.5	103	80.	25
			1.8	12000	30.3	7.4	7.1	97	80.	--
OCT 16, 74	1015	3	.3	8200	19.2	8.0	6.9	75	25.	51
			1.7	9000	19.1	8.0	6.8	75	35.	--
FEB 11, 75	1345	3	.3	22000	12.8	8.3	9.9	101	10.	109
			1.5	25000	12.4	8.2	9.5	97	10.	--
JUN 09, 75	1345	3	.3	1400	28.8	8.2	7.4	95	170.	13
			1.8	1600	28.7	8.2	7.4	95	180.	--
AUG 19, 75	1610	3	.3	9600	30.6	7.4	8.2	112	80.	24
			1.5	9600	30.3	7.7	6.4	86	140.	--
OCT 16, 74	1045	4	.3	7500	17.6	8.0	7.1	76	15.	61
			.6	8000	17.4	8.0	7.1	76	20.	--
FEB 11, 75	1400	4	.3	21000	13.1	8.2	9.5	98	25.	67
			1.2	21000	12.7	8.2	9.4	96	30.	--
JUN 09, 75	1405	4	.3	1800	29.0	8.5	7.2	92	275.	16
			1.2	1800	29.0	8.5	7.1	91	350.	--
				LINE 90						
OCT 16, 74	1105	2	.3	6100	18.9	8.1	7.4	80	40.	33
			.9	6100	18.7	8.0	6.4	51	--	--
			1.8	31000	20.4	7.7	4.8	59	40.	--
AUG 19, 75	1550	2	.3	17000	30.5	7.4	6.6	92	50.	31
			1.2	15000	30.5	7.4	5.8	81	50.	--
OCT 16, 74	1115	3	.3	9700	19.6	8.0	6.7	74	50.	29

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 90 CONTINUED						
OCT 16, 74	1115	3	.9	12000	19.7	8.0	7.7	87	50.	--
			1.5	25000	21.4	7.9	5.7	70	95.	--
			2.7	30000	21.8	7.8	4.4	56	140.	--
FEB 11, 75	1415	3	.3	26000	13.3	8.3	10.4	108	10.	121
			1.5	29000	12.2	8.2	9.9	102	10.	--
			2.7	28000	12.7	8.1	9.7	101	10.	--
JUN 09, 75	1320	3	.3	3600	28.9	8.3	7.5	97	160.	16
			1.5	3600	28.9	8.3	7.6	99	160.	--
			2.4	4000	28.9	8.3	7.5	97	160.	--
AUG 19, 75	1545	3	.3	18000	30.3	8.3	6.4	89	45.	45
			1.2	18000	30.6	8.0	6.9	97	40.	--
			2.4	18000	31.0	8.4	5.2	73	70.	--
OCT 16, 74	1125	4	.3	11000	19.8	8.0	8.1	91	40.	30
			.9	11000	19.3	8.0	7.3	81	40.	--
			1.2	11000	19.3	8.0	6.9	77	65.	--
AUG 19, 75	1535	4	.3	17000	30.7	7.4	6.2	87	40.	31
			1.5	17000	32.0	7.5	5.8	83	105.	--
				LINE 102						
OCT 16, 74	0840	2	.3	34000	20.9	8.2	3.8	48	95.	76
			1.5	35000	21.0	8.2	3.6	46	90.	--
			3.0	39000	21.5	8.3	4.0	52	75.	--
			6.1	39000	20.9	8.3	5.1	66	60.	--
			10.4	40000	18.3	8.3	6.7	83	190.	--
FEB 11, 75	1700	2	.3	31000	14.8	8.2	8.8	98	10.	69
			1.5	33000	14.3	8.2	8.2	91	10.	--
			4.6	33000	13.6	8.2	7.8	85	5.	--
			7.6	34000	13.5	8.3	7.7	84	5.	--
			11.0	34000	13.3	8.4	7.9	86	25.	--
APR 09, 75	1445	2	.3	35000	21.1	8.2	10.1	129	15.	128
			3.0	31000	21.0	8.2	9.8	123	11.	--
			6.1	36000	20.1	8.2	7.8	98	10.	--
			10.7	36000	22.2	8.1	4.3	55	40.	--
JUN 09, 75	1615	2	.5	8300	29.5	8.5	10.7	143	100.	16
			3.0	8000	29.0	8.5	10.5	138	120.	--
			4.6	8000	29.5	8.5	10.5	143	100.	--
			6.1	22000	29.0	7.8	3.8	53	30.	--
			10.7	30000	29.0	7.9	3.4	49	55.	--
AUG 19, 75	1450	2	.3	25000	30.1	--	6.7	96	30.	57
			1.5	25000	29.9	8.8	6.2	89	30.	--
			3.0	34000	31.1	9.0	2.9	44	10.	--
			4.6	40000	28.8	8.3	.0	0	10.	--
			7.6	44000	28.8	8.3	.0	0	5.	--
			10.4	47000	29.1	7.8	.0	0	0.	--
				LINE 110						
OCT 16, 74	0805	2	.3	19000	18.8	8.0	5.6	63	50.	46
			1.5	19000	18.5	8.1	7.0	78	40.	--
			3.4	21000	16.9	8.2	7.5	82	45.	--
FEB 11, 75	1740	2	.3	29000	15.2	7.6	6.5	70	10.	66
			.8	29000	13.7	8.0	7.1	76	5.	--
			1.2	32000	13.0	8.1	8.0	85	5.	--
			2.4	33000	12.8	8.2	8.5	91	10.	--
			4.0	32000	13.0	8.2	8.8	94	15.	--
APR 09, 75	1340	2	.3	30000	22.5	8.0	8.8	113	0.	66

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
				LINE 110 CONTINUED						
APR 09, 75	1340	2	1.5	31000	22.9	8.1	8.1	114	0.	--
			3.7	31000	25.4	8.0	5.5	74	35.	--
JUN 09, 75	1715	2	.3	3000	29.5	8.4	11.8	155	90.	24
			1.5	3000	29.5	8.1	10.8	142	80.	--
			3.0	3000	29.5	7.8	6.9	91	130.	--
			3.7	9500	29.0	7.6	5.1	67	100.	--
				LINE 125						
FEB 11, 75	1725	2	.3	24000	14.1	8.3	10.6	110	20.	71
			.9	23000	13.9	8.3	10.6	110	15.	--
APR 09, 75	1410	2	.3	31000	23.0	8.2	8.6	110	5.	45
			1.5	31000	23.0	8.2	9.0	115	55.	--
			3.0	31000	24.5	8.0	5.9	78	60.	--
JUN 09, 75	1645	2	.5	4000	29.5	8.4	11.1	146	110.	13
			1.5	4000	29.0	8.4	11.2	145	110.	--
			2.7	7000	29.0	8.2	8.4	111	110.	--
AUG 19, 75	1140	2	.3	23000	30.6	7.3	5.4	78	25.	41
			.9	21000	30.8	7.4	5.9	84	30.	--
				LINE 143						
OCT 16, 74	1000	1	.3	23000	19.2	8.3	11.1	128	110.	38
			1.5	23000	19.2	8.3	10.9	125	110.	--
FEB 11, 75	1625	1	.3	31000	13.3	8.3	9.9	106	0.	145
			1.8	31000	13.3	8.3	10.0	108	0.	--
APR 09, 75	1550	1	.3	35000	22.1	8.2	9.1	117	20.	98
			1.5	35000	23.0	8.2	8.4	111	20.	--
JUN 09, 75	1510	1	.5	11000	29.5	--	--	--	80.	25
			1.8	11000	29.5	8.4	8.6	115	120.	--
AUG 19, 75	1425	1	.3	29000	30.5	8.8	6.7	89	10.	55
			1.5	29000	31.0	8.5	6.3	83	15.	--
OCT 16, 74	0950	3	.3	23000	19.2	8.3	9.9	114	110.	48
			1.5	23000	19.0	8.3	10.1	116	95.	--
FEB 11, 75	1635	3	.3	32000	13.5	8.3	10.6	114	0.	110
			1.8	31000	13.0	8.4	11.2	119	10.	--
APR 09, 75	1555	3	.3	35000	22.2	8.2	8.9	114	20.	75
			1.5	35000	23.1	8.2	8.4	111	30.	--
JUN 09, 75	1500	3	.5	10000	29.5	8.4	8.3	111	100.	17
			2.0	10000	30.0	8.4	8.4	114	150.	--
AUG 19, 75	1435	3	.3	28000	30.4	7.8	7.0	101	25.	43
			1.8	29000	31.3	8.7	6.2	91	30.	--
				LINE 150						
OCT 16, 74	0930	1	.3	23000	17.5	8.3	8.4	94	100.	33
			1.8	23000	18.1	8.3	9.4	107	100.	--
FEB 11, 75	1545	1	.3	31000	13.3	8.2	9.4	101	0.	98
			1.8	30000	13.1	8.2	9.7	103	5.	--
APR 09, 75	1540	1	.3	35000	22.0	8.2	8.5	109	40.	85
			1.8	35000	23.1	8.2	8.0	105	40.	--

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 150 CONTINUED						
JUN 09, 75	1515	1	.5	7000	29.5	8.5	10.1	135	100.	16
			1.4	7000	29.5	8.5	10.0	133	--	--
AUG 19, 75	1305	1	.3	29000	30.5	7.8	7.2	106	10.	76
			1.5	29000	30.3	8.3	6.8	98	15.	--
OCT 16, 74	0915	3	.3	21000	19.0	8.3	8.9	101	140.	18
			1.2	21000	19.1	8.3	8.7	99	160.	--
FEB 11, 75	1530	3	.3	30000	13.4	8.2	9.7	102	5.	99
			1.8	30000	13.0	8.2	9.7	103	5.	--
APR 09, 75	1530	3	.3	33000	22.0	8.2	8.5	109	45.	63
			1.8	33000	24.1	8.2	7.9	105	50.	--
JUN 09, 75	1530	3	.5	10000	29.5	8.4	9.8	131	70.	18
			1.5	10000	29.5	8.4	9.7	129	80.	--
			2.1	10000	30.0	8.3	9.6	130	110.	--
AUG 19, 75	1250	3	.3	28000	29.8	8.4	6.6	96	5.	53
			.9	28000	29.8	8.5	6.7	97	10.	--
			2.1	28000	29.0	8.6	5.0	71	20.	--
OCT 16, 74	0900	4	.3	24000	21.2	8.3	7.2	87	95.	--
			1.5	25000	20.5	8.3	7.6	92	105.	--
			3.0	34000	21.0	8.4	7.3	92	100.	--
			6.1	43000	21.5	8.3	6.9	91	115.	--
			10.4	43000	20.3	8.3	7.7	100	115.	--
FEB 11, 75	1515	4	.3	26000	13.0	8.2	10.1	104	0.	111
			1.5	31000	12.7	8.2	9.3	98	5.	--
			3.0	32000	12.6	8.2	8.9	93	10.	--
			6.1	34000	12.7	8.2	8.5	90	20.	--
			9.1	34000	12.8	8.2	8.5	91	20.	--
			12.2	36000	12.9	8.2	8.2	89	105.	--
APR 09, 75	1510	4	.5	32000	22.2	8.2	8.4	106	25.	76
			3.0	34000	21.0	8.2	7.8	99	25.	--
			6.1	35000	20.2	8.2	7.1	89	35.	--
			11.0	34000	20.9	8.2	7.0	89	40.	--
JUN 09, 75	1550	4	.5	13000	29.0	8.4	9.7	129	60.	32
			1.5	13000	29.0	8.4	9.4	125	55.	--
			2.4	13000	29.0	8.3	9.0	120	--	--
			3.0	23000	29.0	8.0	4.4	61	40.	--
			6.1	26000	29.0	8.0	4.3	61	35.	--
			10.4	37000	29.0	7.9	5.0	74	45.	--
AUG 19, 75	1220	4	.3	28000	29.8	7.8	6.1	87	10.	67
			1.5	28000	29.5	8.0	5.5	79	10.	--
			3.0	34000	30.0	7.9	4.8	72	5.	--
			4.6	40000	29.5	8.2	2.1	32	45.	--
			7.6	46000	29.5	8.2	.0	0	10.	--
			10.7	48000	29.7	9.0	.0	0	10.	--
				LINE 175						
OCT 16, 74	1020	1	.3	23000	17.2	8.4	6.8	76	130.	28
			1.5	23000	17.5	8.5	5.8	65	110.	--
FEB 11, 75	1600	1	.3	32000	12.9	8.3	10.0	106	0.	120
			1.5	31000	12.6	8.3	10.0	105	0.	--
APR 09, 75	1645	1	.3	35000	22.9	8.3	8.0	105	15.	69
			1.5	34000	23.0	8.3	8.1	105	10.	--
JUN 09, 75	1430	1	.3	17000	29.5	8.4	8.1	112	50.	43
			1.5	21000	29.5	8.4	8.0	111	90.	--

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 175 CONTINUED						
AUG 19, 75	1405	1	.3	24000	30.5	7.0	6.3	90	0.	61
			1.5	28000	31.5	7.9	5.7	84	10.	--
				LINE 190						
FEB 11, 75	1120	2	.3	30000	13.7	8.1	8.0	87	20.	116
			1.2	30000	14.3	8.1	7.6	83	15.	--
APR 09, 75	1710	2	.3	34000	21.6	8.2	8.1	104	20.	72
			1.8	34000	22.9	8.2	7.6	99	20.	--
JUN 10, 75	1055	2	.3	17000	26.7	8.3	10.8	142	40.	41
			1.4	17000	26.7	8.3	10.5	138	55.	--
AUG 19, 75	0945	2	.3	34000	31.0	8.3	6.9	105	20.	94
			1.8	34000	29.4	8.3	6.6	97	15.	--
OCT 14, 74	1720	4	.3	30000	25.8	8.2	13.8	189	15.	66
			1.5	31000	25.8	8.2	12.4	170	25.	--
			3.0	31000	25.4	8.2	12.2	165	40.	--
			6.1	31000	25.4	8.2	9.5	128	40.	--
			10.4	35000	25.7	8.0	5.6	77	80.	--
OCT 16, 74	1055	4	.3	21000	20.0	8.3	9.0	105	115.	30
			1.5	25000	20.8	8.3	8.4	102	110.	--
			3.0	31000	21.0	8.4	7.0	89	105.	--
			4.6	34000	21.2	8.4	7.0	88	105.	--
			6.1	44000	21.7	8.4	6.0	81	105.	--
			10.4	40000	20.0	8.3	6.8	86	110.	--
FEB 11, 75	1310	4	.3	28000	13.7	8.1	8.7	92	20.	101
			3.0	31000	13.4	8.1	8.5	91	25.	--
			6.1	32000	13.4	8.1	8.1	87	40.	--
			9.1	32000	13.4	8.1	7.8	84	75.	--
			11.9	32000	13.5	8.1	7.4	80	80.	--
APR 09, 75	1715	4	.3	34000	20.1	8.2	8.1	100	30.	88
			3.0	34000	20.1	8.2	7.6	94	35.	--
			6.1	35000	20.1	8.2	7.5	94	30.	--
			9.1	36000	20.0	8.2	7.2	90	40.	--
APR 10, 75	1630	4	.3	35000	20.9	8.1	7.5	96	15.	77
			3.0	35000	20.8	8.1	7.3	94	25.	--
			6.1	35000	20.8	8.0	7.1	91	25.	--
			11.6	35000	20.9	8.0	6.3	81	55.	--
JUN 09, 75	1350	4	.5	16000	28.5	8.4	7.4	100	40.	45
			1.5	16000	28.5	8.4	7.4	100	30.	--
			2.4	17000	28.5	8.3	7.0	95	30.	--
			3.0	29000	28.0	8.1	4.0	56	30.	--
			6.1	34000	28.0	8.1	3.2	46	50.	--
			9.1	37000	28.0	8.0	2.4	35	55.	--
			11.0	37000	28.0	8.0	2.4	35	70.	--
JUN 10, 75	1020	4	.3	16000	26.7	8.3	8.9	116	55.	33
			1.5	18000	26.7	8.3	8.3	109	50.	--
			3.0	19000	26.6	8.2	7.8	103	55.	--
			6.1	25000	26.6	8.2	7.0	95	150.	--
			9.1	34000	25.9	7.9	4.3	60	300.	--
			12.2	34000	25.8	7.9	3.8	53	--	--
JUN 11, 75	0900	4	.3	11000	25.7	8.2	7.2	89	80.	30
			1.5	12000	25.8	8.2	6.9	87	75.	--
			3.0	15000	25.9	8.2	6.6	85	80.	--
			6.1	26000	26.1	8.2	6.0	80	80.	--
			9.1	36000	26.3	8.1	5.1	71	120.	--
			12.8	36000	26.2	8.1	4.8	67	--	--
AUG 19, 75	0915	4	.3	32000	29.2	8.3	5.5	80	20.	89

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
				LINE 19C CONTINUED						
AUG 19, 75	0915	4	1.5	32000	29.2	8.3	5.3	77	20.	--
			3.0	32000	29.4	8.3	5.0	72	20.	--
			6.1	47000	29.1	8.3	2.9	45	30.	--
			9.1	48000	29.0	8.0	1.9	30	35.	--
			11.0	50000	29.3	8.0	.7	11	40.	--
				LINE 20D						
OCT 16, 74	1135	2	.3	26000	21.0	8.4	11.2	137	5.	48
			1.5	31000	21.5	8.4	11.0	128	20.	--
			3.0	36000	21.5	8.4	8.4	108	10.	--
			6.1	37000	21.3	8.4	9.5	122	15.	--
			10.4	40000	21.0	8.4	9.1	118	5.	--
FEB 11, 75	1330	2	.3	32000	13.6	8.1	8.3	90	15.	132
			3.0	33000	13.6	8.1	7.9	86	20.	--
			6.1	34000	13.9	8.1	7.8	86	25.	--
			9.1	34000	14.4	8.2	7.7	86	50.	--
			12.5	32000	14.5	8.2	7.8	86	70.	--
AUG 20, 75	1245	2	.3	39000	28.9	8.2	5.9	88	40.	112
			1.5	41000	28.5	8.2	5.9	88	40.	--
			3.0	44000	28.5	8.1	5.8	89	30.	--
			6.1	52000	28.2	8.1	4.9	77	35.	--
			9.1	52000	28.2	8.1	5.7	89	50.	--
			11.0	52000	28.5	8.1	5.6	88	70.	--
OCT 16, 74	1155	5	.3	25000	20.0	8.3	11.3	135	35.	41
			1.5	25000	20.3	8.3	10.0	120	35.	--
FEB 11, 75	1350	5	.3	31000	14.0	8.0	8.8	96	10.	134
			1.8	31000	14.0	8.1	8.8	93	10.	--
AUG 20, 75	1300	5	.3	41000	29.1	8.3	6.5	99	20.	82
			1.5	41000	29.0	8.3	6.7	101	25.	--
				LINE 21D						
OCT 16, 74	1215	2	.3	32000	21.8	8.4	8.6	119	35.	41
			1.5	32000	21.3	8.4	8.6	108	40.	--
			3.0	38000	21.0	8.4	7.9	103	40.	--
			6.1	38000	21.5	8.4	7.9	103	35.	--
			10.4	41000	22.2	8.4	8.0	105	35.	--
FEB 11, 75	1445	2	.3	34000	14.7	8.2	8.5	96	15.	208
			3.0	34000	14.7	8.2	8.1	91	10.	--
			6.1	35000	14.7	8.2	8.5	96	15.	--
			9.1	35000	14.7	8.2	8.5	96	20.	--
			11.6	34000	15.3	8.3	7.5	84	140.	--
AUG 20, 75	1340	2	.3	43000	29.4	8.3	7.4	114	35.	105
			1.5	48000	28.0	8.2	7.6	115	25.	--
			3.0	50000	28.8	8.2	6.9	110	20.	--
			6.1	50000	28.4	8.2	6.6	103	25.	--
			10.4	50000	28.8	8.1	6.5	103	20.	--
				LINE 22A						
APR 10, 75	1225	2	.3	21000	22.0	8.1	8.1	99	15.	57
			.9	23000	22.0	8.1	7.8	95	25.	--
				LINE 22B						
FEB 12, 75	1215	2	.3	24000	13.6	8.2	9.9	102	15.	35
			1.2	24000	13.6	8.2	10.0	103	50.	--

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 225 CONTINUED					
JUN 10, 75	1320	2	.3	10000	26.2	8.6	6.9	86	--	34
			1.5	8000	26.1	8.6	6.8	85	--	--
AUG 20, 75	1640	2	.3	14000	32.0	8.5	7.5	116	20.	28
			1.5	14000	32.0	8.5	7.4	104	100.	--
					LINE 235					
APR 10, 75	1245	2	.3	34000	21.5	8.0	7.8	100	10.	76
			1.8	34000	21.5	8.0	8.0	103	5.	--
					LINE 247					
FEB 12, 75	1135	6	.3	30000	12.7	8.2	9.2	97	60.	28
			1.4	30000	12.7	8.2	9.3	98	90.	--
JUN 10, 75	1220	6	.3	29000	26.7	8.4	6.3	86	--	14
			1.5	29000	26.7	8.4	6.3	86	--	--
AUG 20, 75	1725	6	.3	29000	31.0	8.5	7.3	107	15.	42
			1.5	29000	31.0	8.5	6.5	96	70.	--
					LINE 249					
OCT 14, 74	1650	2	.3	30000	26.8	8.3	11.0	153	30.	41
			1.8	30000	26.8	8.3	11.2	156	40.	--
FEB 12, 75	1125	2	.5	32000	13.1	8.2	9.5	101	5.	67
			1.2	32000	13.2	8.2	9.7	103	10.	--
FEB 12, 75	0935	2	.3	32000	13.3	8.1	8.6	92	20.	100
			1.7	32000	13.3	8.1	8.7	94	15.	--
APR 10, 75	1300	2	.3	34000	20.8	8.0	8.4	116	5.	87
			1.2	34000	21.0	8.0	8.4	116	5.	--
JUN 10, 75	1130	2	.3	25000	26.6	8.2	7.0	93	--	18
			1.5	25000	26.5	8.2	6.9	92	--	--
AUG 19, 75	1035	2	.3	34000	29.9	8.4	7.1	106	30.	36
			1.5	34000	29.2	8.4	6.7	99	40.	--
					LINE 254					
OCT 15, 74	1450	2	.9	3800	22.4	7.6	6.1	70	50.	15
APR 10, 75	1050	2	.3	4600	21.0	8.2	9.2	103	20.	69
			1.5	4600	20.9	8.2	8.7	98	20.	--
			2.4	11000	20.9	8.2	7.1	82	30.	--
			3.4	14000	20.6	8.1	5.2	60	40.	--
AUG 20, 75	1510	2	.3	630	32.0	8.3	6.6	89	--	40
			1.5	630	31.4	8.0	4.8	64	90.	--
			3.0	630	31.5	8.0	4.2	57	40.	--
					LINE 258					
FEB 12, 75	1500	2	.8	19000	16.4	8.2	10.0	116	90.	--
APR 10, 75	1035	2	.3	26000	21.9	8.2	7.6	94	60.	48
			.9	26000	21.9	8.2	7.7	95	95.	--
AUG 20, 75	1500	2	.3	9600	33.0	8.5	6.8	96	65.	37
			.9	9600	33.0	8.5	6.2	87	80.	--

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 264					
OCT 15, 74	1500	2	.9	20000	21.3	8.0	6.8	82	500.	8
FEB 12, 75	1510	2	.3	27000	14.9	8.0	9.5	104	20.	42
			1.2	27000	14.9	8.0	9.7	106	25.	--
APR 10, 75	1025	2	.3	30000	21.8	8.1	7.8	99	15.	57
			1.2	30000	21.7	8.1	7.8	99	15.	--
AUG 20, 75	1420	2	.3	19000	32.2	8.4	7.1	101	20.	64
			1.5	17000	32.0	8.3	6.8	97	190.	--
					LINE 270					
FEB 12, 75	1600	2	.3	31000	13.7	8.0	9.3	100	5.	48
			1.5	31000	13.6	8.0	9.4	101	20.	--
			4.3	31000	13.6	8.0	9.4	101	40.	--
APR 10, 75	1100	2	.3	33000	20.5	8.0	6.3	79	15.	93
			1.5	33000	20.5	8.0	6.3	79	10.	--
			4.0	33000	21.0	8.0	6.4	81	25.	--
AUG 20, 75	0945	2	.3	24000	30.0	8.1	5.0	71	20.	79
			1.5	26000	30.2	8.1	4.6	66	30.	--
			3.4	26000	30.8	8.1	3.8	55	25.	--
					LINE 284					
OCT 14, 74	1245	1	.3	28000	25.8	8.2	9.0	122	20.	64
			1.5	28000	25.8	8.2	9.0	122	10.	--
FEB 12, 75	1650	1	.3	31000	14.2	8.0	9.7	105	20.	47
			1.2	31000	14.3	8.0	9.6	105	25.	--
APR 10, 75	1120	1	.3	31000	21.1	8.1	7.1	89	25.	70
			1.2	31000	21.0	8.1	7.2	90	25.	--
AUG 20, 75	1010	1	.3	29000	28.8	8.2	5.7	81	10.	59
			1.2	32000	29.0	8.2	5.6	81	35.	--
OCT 14, 74	1305	2	.3	24000	26.1	8.2	9.4	124	35.	74
			1.5	24000	26.0	8.2	9.2	121	35.	--
			3.0	24000	25.9	8.2	8.6	113	20.	--
			4.6	25000	25.8	8.2	8.0	107	35.	--
FEB 12, 75	1635	2	.5	32000	13.6	8.0	9.2	99	60.	18
			1.5	32000	13.6	8.0	9.2	99	60.	--
			3.7	32000	13.5	8.0	9.4	101	70.	--
APR 10, 75	1145	2	.3	33000	20.8	8.1	7.3	92	20.	84
			1.5	34000	20.5	8.1	7.4	82	25.	--
			4.3	35000	20.1	8.1	6.6	82	50.	--
AUG 20, 75	1035	2	.3	29000	29.0	8.3	7.0	100	15.	56
			1.5	27000	29.1	8.2	6.6	94	20.	--
			3.0	32000	29.1	8.2	5.9	86	30.	--
			4.0	32000	29.1	8.2	5.4	78	50.	--
OCT 14, 74	1315	3	.3	28000	26.2	8.3	9.4	129	20.	64
			1.8	28000	27.0	8.2	9.6	132	25.	--
FEB 12, 75	1625	3	.3	32000	13.9	8.1	9.9	108	5.	67
			1.5	32000	13.9	8.1	10.0	109	5.	--
			2.1	32000	14.0	8.1	10.2	111	10.	--
APR 10, 75	1200	3	.3	32000	21.0	8.1	7.4	92	30.	46

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 284 CONTINUED						
APR 10, 75	1200	3	1.5	31000	21.0	8.1	7.4	92	25.	--
AUG 20, 75	1045	3	.3	29000	29.0	8.3	6.8	97	30.	60
			1.8	27000	29.0	8.3	6.2	89	30.	--
				LINE 300						
OCT 14, 74	1415	1	.3	23000	26.0	8.3	9.7	128	35.	66
			2.1	23000	25.9	8.3	9.5	125	70.	--
FEB 12, 75	1645	1	.5	30000	15.0	8.4	8.4	93	20.	108
			1.4	28000	15.8	8.4	8.7	97	20.	--
APR 10, 75	1300	1	.3	35000	20.1	8.1	7.2	90	10.	81
			1.8	35000	20.1	8.1	7.0	88	10.	--
AUG 19, 75	1425	1	.3	38000	28.8	8.2	7.4	110	95.	63
			1.7	38000	28.8	8.2	8.0	119	80.	--
OCT 14, 74	1345	2	.3	25000	26.0	8.3	9.1	121	--	79
			1.5	24000	26.0	8.3	9.4	124	--	--
			4.0	24000	26.2	8.2	10.0	132	35.	--
FEB 12, 75	1655	2	.5	32000	14.2	8.3	8.2	91	20.	78
			1.5	32000	14.2	8.3	8.1	90	20.	--
			3.2	31000	14.3	8.3	7.5	82	20.	--
APR 10, 75	1245	2	.3	35000	20.2	8.1	7.1	89	10.	128
			1.5	35000	20.5	8.1	7.1	90	10.	--
			3.4	35000	20.7	8.1	6.8	86	25.	--
AUG 19, 75	1440	2	.3	32000	30.0	8.3	8.5	125	20.	93
			1.5	34000	29.5	8.2	7.9	116	15.	--
			3.0	36000	29.2	8.2	6.8	100	10.	--
			3.7	36000	29.2	8.2	6.5	96	20.	--
AUG 20, 75	1100	2	.3	32000	29.0	8.3	5.6	81	15.	113
			1.5	36000	29.0	8.3	5.1	75	20.	--
			3.0	36000	28.8	8.1	3.9	57	60.	--
			4.0	36000	28.6	8.1	4.2	62	70.	--
OCT 14, 74	1330	3	.3	26000	26.0	8.3	10.5	140	60.	61
			1.8	27000	26.0	8.2	9.4	127	45.	--
FEB 12, 75	1710	3	.5	32000	14.2	8.4	8.6	93	15.	102
			1.5	32000	14.5	8.4	7.4	81	15.	--
APR 10, 75	1230	3	.3	34000	20.9	8.1	7.1	90	50.	57
			1.5	34000	20.9	8.1	7.1	90	55.	--
AUG 20, 75	1115	3	.3	29000	28.9	8.3	5.3	76	--	52
			1.8	29000	28.8	8.2	5.3	76	50.	--
				LINE 320						
APR 09, 75	1515	2	.3	23000	21.8	8.1	10.4	127	50.	30
			1.5	23000	21.5	8.1	9.9	121	65.	--
			3.0	25000	21.4	8.1	9.7	118	140.	--
			4.6	25000	21.4	8.1	9.5	116	185.	--
				LINE 333						
FEB 12, 75	1445	1	.5	7000	15.6	8.3	8.3	84	100.	41
			1.4	7200	15.6	8.3	8.4	85	135.	--
APR 09, 75	1425	1	.3	30000	22.4	8.3	10.7	125	30.	30

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 333 CONTINUED						
APR 09, 75	1425	1	1.5	32000	21.9	8.2	9.7	123	125.	--
AUG 20, 75	1105	1	.3	36000	30.5	8.3	6.4	97	10.	53
			1.5	38000	30.1	8.3	6.0	91	20.	--
FEB 12, 75	1430	2	.3	20000	15.2	8.4	8.2	86	20.	56
			1.2	20000	15.4	8.4	9.5	101	30.	--
APR 09, 75	1440	2	.3	34000	21.7	8.3	10.2	131	50.	33
			1.8	34000	21.4	8.2	10.0	127	70.	--
AUG 20, 75	1155	2	.3	34000	31.2	8.2	5.2	79	20.	63
			1.8	36000	31.6	8.2	3.0	47	30.	--
FEB 12, 75	1355	3	.3	20000	15.5	8.5	10.5	112	20.	88
			.9	24000	15.4	8.5	10.0	108	25.	--
APR 09, 75	1445	3	.3	30000	22.0	8.2	10.2	129	25.	28
			1.5	30000	21.4	8.2	9.9	124	80.	--
AUG 20, 75	1205	3	.3	30000	31.0	8.4	6.7	100	--	52
			1.5	30000	30.8	8.3	5.4	81	50.	--
				LINE 350						
OCT 14, 74	1530	1	.3	--	26.2	8.2	--	--	5.	99
			1.5	28000	26.5	8.2	6.2	84	5.	--
			2.7	27000	27.7	8.1	4.8	67	5.	--
FEB 12, 75	1310	1	.5	25000	15.3	8.2	9.4	102	30.	53
			1.5	24000	15.7	8.2	7.8	84	30.	--
APR 10, 75	1405	1	.3	35000	20.5	8.1	7.2	91	45.	42
			1.1	35000	20.5	8.1	7.0	89	40.	--
AUG 19, 75	1315	1	.3	43000	29.0	8.2	6.0	92	40.	92
			1.2	43000	28.8	8.1	5.8	89	20.	--
OCT 14, 74	1455	2	.3	21000	26.0	8.3	11.5	151	5.	104
			1.5	21000	26.0	8.2	10.9	143	5.	--
			4.0	21000	26.1	8.2	11.1	146	30.	--
FEB 12, 75	1535	2	.5	25000	14.3	8.4	10.6	113	15.	124
			1.5	27000	14.1	8.2	8.6	92	20.	--
			2.7	27000	14.1	8.2	7.3	78	20.	--
APR 10, 75	1350	2	.3	35000	20.5	8.1	7.2	91	30.	75
			1.5	35000	20.5	8.1	7.0	89	30.	--
			3.7	35000	20.6	8.1	7.0	89	30.	--
AUG 19, 75	1325	2	.3	39000	30.0	8.2	8.0	121	60.	90
			1.5	39000	29.8	8.2	6.8	103	60.	--
			3.0	41000	29.2	8.1	6.6	100	80.	--
OCT 14, 74	1440	3	.3	24000	26.2	8.3	9.8	129	15.	66
			2.1	29000	26.0	8.2	8.7	118	35.	--
FEB 12, 75	1610	3	.3	28000	14.4	8.3	9.0	98	10.	79
			1.5	29000	14.3	8.3	8.6	93	15.	--
			2.3	27000	14.5	8.3	8.0	87	10.	--
APR 10, 75	1345	3	.3	34000	20.6	8.1	7.3	91	50.	48
			2.1	34000	21.0	8.1	7.3	92	40.	--
AUG 19, 75	1405	3	.3	39000	30.2	8.2	8.2	124	80.	112
			1.5	39000	30.0	8.2	8.3	126	75.	--
			2.4	39000	30.0	8.2	8.1	123	60.	--
				LINE 363						
OCT 14, 74	1545	1	.3	38000	26.1	8.2	6.8	96	--	94

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
LINE 363 CONTINUED										
OCT 14, 74	1545	1	2.4	38000	26.8	8.2	6.9	99	5.	--
FEB 12, 75	1235	1	.3	28000	15.1	8.0	8.6	94	30.	66
			1.5	29000	14.6	8.0	8.1	86	60.	--
			2.3	29000	15.0	8.0	7.5	82	60.	--
APR 10, 75	1430	1	.3	36000	20.1	8.1	7.0	88	15.	69
			1.5	36000	20.5	8.1	6.7	85	15.	--
AUG 19, 75	1205	1	.3	43000	29.5	8.4	12.4	194	30.	122
			1.5	43000	28.9	8.3	10.1	155	35.	--
			2.3	43000	28.4	8.2	7.9	120	15.	--
OCT 14, 74	1600	2	.3	35000	26.0	8.3	8.3	115	2.	112
			1.2	35000	26.0	8.3	8.2	114	5.	--
			2.4	35000	26.1	8.2	7.8	108	5.	--
			4.0	36000	26.6	8.2	6.3	89	5.	--
FEB 12, 75	1205	2	.6	31000	14.0	8.0	8.0	87	35.	76
			1.5	30000	13.8	7.9	8.0	87	40.	--
			3.0	32000	13.9	8.1	7.9	86	50.	--
APR 10, 75	1445	2	.3	38000	20.1	8.1	7.1	90	15.	102
			1.5	38000	20.1	8.1	7.2	91	30.	--
			3.7	36000	20.1	8.1	7.1	89	25.	--
AUG 19, 75	1150	2	.3	39000	29.2	8.3	8.5	127	30.	115
			1.5	43000	28.9	8.2	7.0	108	25.	--
			3.0	47000	28.5	8.1	3.7	57	35.	--
			4.0	50000	28.5	7.8	1.5	23	40.	--
OCT 14, 74	1610	3	.3	30000	26.0	8.3	8.6	118	5.	89
			1.5	30000	26.1	8.3	8.6	118	5.	--
			3.4	30000	26.3	8.2	7.5	103	5.	--
FEB 12, 75	1145	3	.6	32000	13.9	8.2	8.1	88	20.	80
			1.5	32000	13.7	8.2	8.1	87	30.	--
			3.4	32000	13.6	8.2	7.5	81	50.	--
APR 10, 75	1500	3	.3	35000	20.2	8.1	7.6	95	10.	112
			1.5	35000	20.2	8.1	7.5	94	15.	--
			3.0	35000	20.2	8.1	7.2	90	10.	--
AUG 19, 75	1135	3	.3	38000	29.0	8.2	7.2	107	20.	94
			1.5	38000	29.0	8.2	6.8	101	40.	--
			3.0	38000	28.8	8.2	6.4	96	65.	--
OCT 14, 74	1625	5	.3	34000	26.1	8.3	8.1	112	5.	66
			1.8	34000	26.0	8.3	8.4	117	10.	--
			3.7	34000	26.4	8.2	7.9	110	15.	--
FEB 12, 75	1125	5	.6	33000	13.8	8.2	7.4	81	10.	148
			.9	34000	13.7	8.2	7.3	79	10.	--
			2.4	34000	13.7	8.1	7.2	78	10.	--
			3.4	32000	13.7	8.2	7.0	75	10.	--
APR 10, 75	1525	5	.3	34000	20.1	8.1	7.6	95	0.	123
			1.5	35000	20.1	8.1	7.6	95	0.	--
			3.0	33000	20.8	8.1	7.1	90	5.	--
AUG 19, 75	1115	5	.3	32000	29.8	8.3	7.3	107	40.	42
			1.5	36000	29.2	8.3	6.7	99	35.	--
			3.4	36000	29.1	8.2	5.9	87	60.	--
OCT 14, 74	1640	6	.3	31000	26.4	8.3	10.2	140	0.	61
			1.5	32000	26.5	8.3	10.3	143	0.	--
			3.0	32000	26.7	8.3	9.9	138	15.	--
FEB 12, 75	1020	6	.6	33000	13.5	8.2	7.3	79	15.	159

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 363 CONTINUED						
FEB 12, 75	1020	6	1.5	33000	13.4	8.2	7.2	78	20.	--
			3.4	34000	13.9	8.2	7.8	86	15.	--
APR 10, 75	1545	6	.3	34000	20.5	8.1	8.1	101	15.	96
			1.5	34000	20.5	8.1	7.9	99	15.	--
			2.7	34000	20.5	8.1	7.7	96	5.	--
AUG 19, 75	1045	6	.3	34000	29.8	8.3	7.4	110	40.	77
			1.5	34000	29.5	8.3	6.9	101	30.	--
			2.6	34000	29.4	8.2	6.0	88	30.	--
				LINE 375						
FEB 11, 75	1635	1	.3	33000	15.5	8.3	8.3	94	10.	156
			1.5	34000	15.4	8.3	7.4	83	20.	--
			3.0	34000	15.5	8.3	7.4	84	110.	--
			4.1	32000	15.8	8.3	7.3	82	90.	--
AUG 20, 75	1425	1	.3	47000	29.5	8.2	8.1	129	10.	124
			1.5	47000	29.0	8.2	7.6	119	10.	--
			4.0	50000	29.2	8.1	7.1	113	15.	--
OCT 16, 74	1235	2	.3	35000	22.0	8.5	9.0	115	30.	51
			1.8	35000	21.8	8.5	8.8	113	30.	--
FEB 11, 75	1650	2	.3	34000	15.2	8.5	8.3	93	10.	224
			1.5	34000	15.1	8.4	8.2	92	10.	--
			3.0	34000	14.6	8.4	7.7	86	25.	--
			4.0	33000	14.7	8.4	7.4	82	70.	--
AUG 20, 75	1400	2	.3	44000	29.2	8.2	7.2	112	0.	102
			1.5	50000	28.8	8.1	6.8	108	15.	--
			3.7	50000	28.9	8.1	5.9	94	10.	--
FEB 11, 75	1745	3	.3	34000	14.4	8.4	8.1	89	10.	--
			1.5	35000	14.2	8.4	7.4	82	15.	--
			3.0	35000	14.2	8.4	7.4	82	20.	--
			3.7	34000	14.4	8.3	7.3	80	35.	--
AUG 20, 75	1225	3	.3	39000	29.0	8.3	6.7	100	45.	176
			1.5	39000	28.8	8.2	6.5	97	40.	--
			3.7	39000	28.5	8.2	5.7	84	70.	--
OCT 16, 74	1100	4	.3	30000	20.2	8.4	10.5	128	90.	46
			2.1	30000	20.0	8.4	10.1	123	80.	--
FEB 11, 75	1815	4	.3	35000	14.6	8.2	8.5	96	15.	110
			1.2	35000	14.8	8.2	8.7	99	15.	--
APR 10, 75	1615	4	.3	33000	21.1	8.1	7.5	95	30.	45
			2.1	33000	21.1	8.1	7.1	90	25.	--
JUN 11, 75	0935	4	.3	18000	25.9	8.2	8.1	105	50.	50
			1.5	18000	25.9	8.2	7.5	97	75.	--
			2.7	18000	25.9	8.1	7.0	91	120.	--
AUG 20, 75	1200	4	.3	32000	28.2	8.3	5.8	83	60.	58
			2.1	32000	28.0	8.3	5.7	81	100.	--
				LINE 382						
OCT 16, 74	1325	2	.3	34000	21.4	8.4	8.4	106	30.	51
			1.5	38000	22.2	8.5	8.8	114	40.	--
			3.7	38000	22.5	8.4	8.8	116	30.	--
FEB 11, 75	1505	2	.3	34000	15.4	8.3	8.4	95	10.	247
			3.0	34000	15.6	8.3	8.4	94	10.	--

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 382 CONTINUED						
FEB 11, 75	1505	2	4.3	34000	15.6	8.3	8.5	96	10.	--
APR 15, 75	0915	2	.5	38000	19.0	--	8.1	100	20.	54
			1.5	38000	19.0	--	8.5	105	15.	--
			3.4	38000	18.9	--	8.5	105	40.	--
AUG 20, 75	1545	2	.3	50000	29.5	8.2	10.9	176	35.	163
			1.5	50000	29.0	8.2	12.4	197	30.	--
			3.0	50000	29.0	8.2	10.9	173	30.	--
			7.9	50000	28.4	8.2	10.2	159	10.	--
				LINE 903						
OCT 16, 74	1255	49	.3	34000	22.0	8.4	8.5	109	30.	38
			1.5	35000	21.2	8.4	8.1	104	35.	--
			3.0	35000	21.2	8.4	8.0	103	35.	--
			6.1	35000	21.2	8.4	8.1	104	45.	--
			9.1	37000	21.3	8.4	8.0	103	55.	--
			14.0	43000	22.0	8.4	8.3	111	60.	--
FEB 11, 75	1600	49	.3	35000	16.5	8.3	8.2	95	5.	230
			3.0	37000	15.9	8.3	8.2	95	10.	--
			6.1	38000	15.9	8.2	6.6	77	10.	--
			11.3	39000	16.2	8.2	5.4	63	120.	--
AUG 20, 75	1500	49	.3	54000	29.0	8.2	10.0	161	10.	--
			1.5	54000	28.5	8.3	10.4	168	15.	--
			3.0	54000	28.5	8.3	11.9	192	10.	--
			6.1	54000	28.2	8.2	11.3	179	15.	--
			9.1	54000	28.0	8.0	6.3	100	20.	--
			11.6	54000	28.0	7.9	5.3	84	25.	--

TABLE 5B--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 17						
FEB 11, 75	1225	2	.3	20.0	.73	.06	.00	--	.12	.9	0	7.8
APR 10, 75	1610	2	.3	12.0	.85	.06	.04	--	.20	4.2	0	15.0
			3.4	13.0	.79	.06	.04	--	.38	6.0	0	21.0
JUN 09, 75	1515	2	.3	25.0	.24	.00	.00	--	.10	2.7	0	14.0
AUG 19, 75	1725	2	.3	26.0	.00	.00	.00	--	.08	4.1	3	--
						LINE 22						
FEB 11, 75	1150	2	.3	18.0	.36	.03	.00	--	.07	1.0	1	12.0
APR 10, 75	1545	2	.3	11.0	.77	.23	.06	--	.28	6.3	0	19.0
			3.7	11.0	.61	.18	.06	--	.29	6.1	0	16.0
JUN 09, 75	1535	2	.3	22.0	.37	.01	.06	--	.11	2.4	0	12.0
AUG 19, 75	1755	2	.3	27.0	.00	.01	.00	--	.14	5.9	3	--
						LINE 65						
OCT 16, 74	0930	2	.3	--	.00	.00	.01	--	.06	2.0	0	6.2
FEB 11, 75	1305	2	.3	--	.43	.05	.01	--	.13	1.7	--	--
			4.0	--	.05	.05	.01	--	.07	1.0	--	--
APR 10, 75	1645	2	.3	--	.31	.13	.01	--	.09	2.3	4	6.8
			4.0	--	.01	.18	.00	--	.07	2.0	0	4.2
JUN 09, 75	1440	2	.3	--	.17	.03	.02	--	.12	2.5	--	--
			3.4	--	.17	.04	.01	--	.12	1.8	--	--
AUG 19, 75	1650	2	.3	--	.00	.00	.00	--	.09	3.3	--	--
			3.0	--	.00	.01	.00	--	.09	1.9	--	--
						LINE 85						
OCT 16, 74	1015	3	.3	--	.03	.10	.01	--	.13	1.4	0	13.0
			1.7	--	.01	.04	.00	--	.11	1.5	0	8.0
FEB 11, 75	1345	3	.3	--	.00	.00	.01	--	.05	1.8	--	--
JUN 09, 75	1345	3	.3	--	.22	.01	.01	--	.21	2.2	--	--
AUG 19, 75	1610	3	.3	16.0	.00	.00	.00	--	.14	1.7	3	--
						LINE 102						
OCT 16, 74	0840	2	.3	--	.00	.12	.01	--	.07	1.3	0	23.0
			10.4	--	.01	.05	.01	--	.14	1.9	0	6.8
FEB 11, 75	1700	2	.3	--	.00	.05	.00	--	.05	1.4	--	--
			11.0	--	.00	.04	.01	--	.07	--	--	--
APR 09, 75	1445	2	.3	--	.00	.02	.01	--	.04	1.6	0	4.4
			10.7	--	.00	.16	.00	--	.11	1.4	0	--
JUN 09, 75	1615	2	.5	--	.00	.00	.01	--	.10	2.8	--	--
			10.7	--	.02	.19	.05	--	.10	1.1	--	--
AUG 19, 75	1450	2	.3	--	.00	.00	.00	--	.09	1.0	3	--

TABLE 5B--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH, (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 102 CONTINUED						
AUG 19, 75	1450	2	10.4	--	.00	.20	.01	--	.10	1.7	2	--
						LINE 110						
OCT 16, 74	0805	2	.3	--	.00	.79	.01	--	.44	2.6	2	7.8
			3.4	--	.00	.05	.00	--	.09	1.9	20	--
FEB 11, 75	1740	2	.3	--	.04	.98	.01	--	.46	2.1	--	--
			4.0	--	.00	.01	.00	--	.06	.8	--	--
APR 09, 75	1340	2	.3	--	.01	.35	.00	--	.22	1.7	0	4.7
			3.7	--	.01	.21	.00	--	.14	1.4	0	4.2
JUN 09, 75	1715	2	.3	--	.06	.15	.02	--	.22	4.4	--	--
			3.7	--	.07	.32	.02	--	.22	2.8	--	--
						LINE 143						
OCT 16, 74	0950	3	.3	--	.00	.04	.00	--	.09	1.9	0	5.6
			1.5	--	.00	.03	.00	--	.09	1.9	0	5.4
FEB 11, 75	1635	3	.3	--	.00	.00	.00	--	.07	1.5	0	--
			1.8	--	.01	.05	.00	--	.06	1.3	0	--
APR 09, 75	1555	3	.3	--	.00	.01	.00	--	.04	1.5	0	--
			1.5	--	.00	.01	.00	--	.07	1.7	0	--
JUN 09, 75	1500	3	.5	--	.00	.00	.01	--	.10	2.2	5	19.0
			2.0	--	.00	.01	.01	--	.13	2.6	5	--
AUG 19, 75	1435	3	1.8	7.6	.00	.02	.01	--	.09	2.0	7	--
						LINE 150						
OCT 16, 74	0900	4	.3	7.9	.00	.01	.00	--	.07	1.8	0	5.0
			10.4	1.5	.00	.02	.01	--	.08	1.5	0	3.0
FEB 11, 75	1515	4	.3	3.3	.00	.03	.00	--	.09	1.4	1	5.2
			12.2	1.0	.00	.12	.00	--	.13	.8	0	9.4
APR 09, 75	1510	4	.5	3.1	.01	.08	.00	--	.05	1.7	0	3.7
			11.0	--	.00	.03	.00	--	.05	1.1	0	--
JUN 09, 75	1550	4	.5	5.7	.00	.96	.01	--	.07	2.3	4	12.0
			10.4	2.9	.02	.15	.05	--	.08	1.5	2	9.0
AUG 19, 75	1220	4	.3	8.9	.00	.00	.00	--	.09	1.7	5	--
			10.7	3.0	.00	.00	.00	--	.06	1.9	2	--
						LINE 175						
OCT 16, 74	1020	1	.3	--	.00	.00	.00	--	.06	2.8	0	6.2
			1.5	--	.00	.02	.00	--	.07	3.1	--	7.6
FEB 11, 75	1600	1	.3	--	.01	.03	.00	--	.01	1.6	--	--
			1.5	--	.01	.06	.00	--	.02	1.8	--	--
APR 09, 75	1645	1	.3	--	.00	.01	.00	--	.03	1.3	0	--
			1.5	--	.00	.01	.01	--	.03	1.4	--	--
JUN 09, 75	1430	1	.3	--	.00	.01	.01	--	.08	2.1	--	--
			1.5	--	.00	.00	.01	--	.08	2.5	--	--
AUG 19, 75	1405	1	.3	7.8	.00	.00	.00	--	.06	1.1	3	--
						LINE 190						
FEB 11, 75	1120	2	.3	--	.00	.01	.00	--	.02	--	--	--

TABLE 5B--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
					LINE 190 CONTINUED							
JUN 10, 75	1055	2	.3	--	.02	.00	.01	--	.06	2.2	--	7.8
			1.4	--	.00	.01	.01	--	.06	1.9	--	9.4
AUG 19, 75	0945	2	.3	--	.00	.01	.00	--	.07	1.4	--	--
						LINE 200						
OCT 16, 74	1135	2	.3	--	.00	.01	.00	--	.06	2.6	0	9.8
			10.4	--	.01	.02	.00	--	.07	1.3	0	2.8
FEB 11, 75	1350	5	.3	--	.00	.01	.00	--	.06	.8	--	6.2
			1.8	--	.00	.04	.00	--	.03	1.1	--	--
AUG 20, 75	1300	5	.3	--	.00	.01	.00	--	.08	2.2	0	--
						LINE 224						
APR 10, 75	1225	2	.3	7.2	.00	.01	.01	--	.05	3.4	0	6.1
						LINE 229						
FEB 12, 75	1215	2	.3	4.3	.00	.01	.00	--	.07	1.5	--	5.6
JUN 10, 75	1320	2	.3	7.7	.01	.01	.02	--	.09	3.4	0	9.2
			1.5	--	.02	.00	.01	--	.09	3.1	--	--
AUG 20, 75	1640	2	.3	--	.00	.01	.00	--	.08	2.5	5	--
						LINE 247						
FEB 12, 75	1135	6	1.4	--	.00	.02	.00	--	.10	--	--	5.1
JUN 10, 75	1220	6	.3	4.6	.00	.02	.01	--	.12	2.5	--	8.3
			1.5	4.8	.00	.00	.01	--	.19	2.9	--	--
						LINE 254						
OCT 15, 74	1450	2	.9	23.0	.00	.06	.00	--	.13	2.2	0	--
APR 10, 75	1050	2	.3	11.0	1.50	.00	.08	--	.17	2.4	0	6.5
			3.4	8.8	.31	.09	.06	--	.19	4.4	0	4.4
AUG 20, 75	1510	2	.3	25.0	.00	.00	.00	--	.16	3.1	5	--
			3.0	--	.01	.08	.00	--	.18	1.7	0	--
						LINE 264						
OCT 15, 74	1500	2	.9	--	.00	.01	.00	--	.22	5.2	0	14.0
FEB 12, 75	1510	2	.3	--	.00	.02	.00	--	.04	1.7	--	4.1
APR 10, 75	1025	2	.3	--	.00	.01	.01	--	.05	1.5	0	4.2
AUG 20, 75	1420	2	.3	--	.00	.01	.00	--	.08	1.5	9	--
						LINE 270						
FEB 12, 75	1600	2	.3	--	.01	.04	.00	--	.04	1.5	--	--
			4.3	--	.01	.04	.00	--	.07	1.0	--	--
APR 10, 75	1100	2	.3	--	.01	.07	.01	--	.06	.8	0	3.6
			4.0	--	.00	.02	.00	--	.05	.8	0	--

TABLE 5B--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 270 CONTINUED						
AUG 20, 75	0945	2	.3	--	.00	.01	.00	--	.10	2.3	1	--
			3.4	--	.00	.04	.00	--	.10	1.2	0	--
						LINE 284						
OCT 14, 74	1245	1	.3	--	.00	.00	.01	--	.06	2.3	0	--
			1.5	--	.01	.00	.00	--	.07	2.5	0	23.0
FEB 12, 75	1650	1	.3	--	.00	.01	.00	--	.04	1.4	--	4.2
APR 10, 75	1120	1	.3	--	.00	.01	.01	--	.05	.5	0	3.0
			1.2	--	.00	.01	.00	--	.05	.5	0	3.4
AUG 20, 75	1010	1	.3	--	.00	.01	.00	--	.07	1.3	0	--
			1.2	--	.00	.01	.00	--	.08	1.9	--	--
						LINE 300						
OCT 14, 74	1330	3	.3	--	.00	.00	.00	--	.06	1.9	0	24.0
			1.8	--	.00	.00	.01	--	.07	2.1	0	--
FEB 12, 75	1710	3	.3	--	.00	.01	.00	--	.06	--	--	3.3
			.5	--	--	--	--	--	--	1.6	--	--
			1.5	--	.01	.02	.00	--	.03	1.2	--	3.7
APR 10, 75	1230	3	.3	--	.00	.01	.02	--	.06	1.2	0	2.8
			1.5	--	.00	.01	.00	--	.06	.9	0	3.2
AUG 20, 75	1115	3	.3	--	.01	.01	.00	--	.07	1.2	0	--
			1.8	--	.00	.03	.00	--	.08	1.0	--	--
						LINE 333						
FEB 12, 75	1445	1	.5	7.4	.50	.05	.01	--	.11	1.1	--	4.7
			1.4	7.3	.49	.05	.01	--	.16	1.0	--	4.4
APR 09, 75	1425	1	.3	.8	.00	.01	.01	--	.06	2.7	0	3.4
			1.5	.9	.00	.01	.03	--	.16	3.3	0	5.1
AUG 20, 75	1105	1	.3	7.3	.00	.00	.00	--	.12	6.0	0	--
			1.5	--	.00	.01	.00	--	.26	8.1	--	--
FEB 12, 75	1355	3	.3	--	.09	.02	.01	--	.05	--	--	5.6
			.9	--	.09	.02	.00	--	.06	--	--	6.7
AUG 20, 75	1205	3	.3	--	.00	.00	.00	--	.08	1.6	0	--
						LINE 350						
FEB 12, 75	1535	2	.5	--	.00	.01	.00	--	.05	2.3	--	4.3
			2.7	--	.00	.04	.00	--	.10	1.6	--	3.4
AUG 19, 75	1325	2	.3	--	.00	.01	.00	--	.06	.9	1	--
			3.0	--	.00	.02	.00	--	.11	1.1	0	--
OCT 14, 74	1440	3	.3	--	.00	.00	.00	--	.07	2.4	0	4.0
			2.1	--	.00	.00	.00	--	.06	1.8	0	--
APR 10, 75	1345	3	.3	--	.00	.00	.00	--	.06	1.1	0	3.5
			2.1	--	.00	.00	.00	--	.06	1.7	0	3.2
						LINE 363						
OCT 14, 74	1545	1	.3	2.8	.00	.00	.01	--	.06	1.7	0	--

TABLE 58--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 363 CONTINUED						
OCT 14, 74	1545	1	2.4	2.8	.00	.00	.00	--	.06	1.7	0	3.0
FEB 12, 75	1235	1	.3	1.3	.01	.01	.00	--	.05	1.6	--	3.1
			2.3	1.1	.01	.03	.00	--	.13	1.5	--	3.5
APR 10, 75	1430	1	.3	--	.00	.01	.00	--	.05	.9	0	2.7
			1.5	--	.00	.02	.00	--	.05	1.1	0	2.6
AUG 19, 75	1205	1	.3	--	.00	.02	.00	--	.33	8.2	0	--
			2.3	--	.06	.00	.00	--	.08	2.1	12	--
OCT 14, 74	1625	5	.3	--	.00	.00	.00	--	.06	2.0	0	3.8
			3.7	--	.00	.01	.01	--	.13	1.7	0	--
APR 10, 75	1525	5	.3	--	.00	.00	.00	--	.03	1.0	2	3.3
			3.0	--	.01	.01	.00	--	.03	.6	0	2.5
FEB 12, 75	1020	6	.6	--	.00	.01	.00	--	.04	1.1	--	3.8
			3.4	--	.00	.01	.00	--	.05	1.2	--	5.2
AUG 19, 75	1045	6	.3	--	.00	.00	.00	--	.05	1.2	1	--
			2.6	--	.01	.02	.00	--	.06	.6	4	--
						LINE 375						
OCT 16, 74	1235	2	.3	--	.00	.00	.00	--	.07	2.0	0	3.4
FEB 11, 75	1650	2	.3	--	.01	.03	.00	--	.05	1.8	--	4.2
			4.0	--	.02	.04	.00	--	.14	1.2	--	5.7
AUG 20, 75	1400	2	.3	--	.00	.00	.00	--	.05	.9	0	--
			3.7	--	.20	.02	.00	--	.15	4.6	0	--
FEB 11, 75	1815	4	.3	--	.00	.01	.00	--	.05	--	--	4.3
			1.2	--	.01	.01	.00	--	.05	--	--	3.9
JUN 11, 75	0935	4	.3	--	.00	.03	.01	--	.06	1.6	--	7.0
			2.7	--	.00	.04	.01	--	.14	1.7	--	--
						LINE 382						
FEB 11, 75	1505	2	.3	--	.01	.05	.00	--	.07	--	--	3.3
			4.3	--	.01	.03	.00	--	.07	--	--	3.3
						LINE 903						
OCT 16, 74	1255	49	.3	3.9	--	--	--	--	--	--	0	8.0
			14.0	2.1	--	--	--	--	--	--	0	2.2
FEB 11, 75	1600	49	.3	1.1	.01	.04	.00	--	.06	1.2	--	--
			11.3	1.8	.02	.06	.00	--	.14	1.0	--	--
AUG 20, 75	1500	49	.3	.5	.01	.00	.00	--	.05	1.3	0	--
			11.6	--	.00	.05	.00	--	.12	5.2	5	--

TABLE 5C--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
						LINE 17						
FEB 11, 75	1225	2	.3	758	85.0	6.5	65	4.0	261	31	100	441
APR 10, 75	1610	2	.3	481	48.0	3.3	41	4.4	122	24	65	258
			3.4	478	48.0	3.0	40	4.4	123	25	65	259
JUN 09, 75	1515	2	.3	689	93.0	5.5	37	2.9	310	17	52	386
AUG 19, 75	1725	2	.3	569	68.0	6.7	44	5.1	224	16	62	339
						LINE 22						
FEB 11, 75	1150	2	.3	498	65.0	4.6	36	4.0	214	16	51	301
APR 10, 75	1545	2	.3	346	38.0	3.7	24	4.5	108	14	39	188
			3.7	346	38.0	3.5	24	4.6	109	13	39	187
JUN 09, 75	1535	2	.3	541	69.0	5.0	30	3.0	229	12	42	296
AUG 19, 75	1755	2	.3	492	49.0	7.8	37	7.0	177	14	58	287
						LINE 65						
OCT 16, 74	0930	2	.3	1030	--	--	--	--	--	--	--	--
FEB 11, 75	1305	2	.3	2200	--	--	--	--	--	--	--	--
			4.0	18200	--	--	--	--	--	--	--	--
APR 10, 75	1645	2	.3	3620	--	--	--	--	--	--	--	--
			4.0	27500	--	--	--	--	--	--	--	--
JUN 09, 75	1440	2	.3	971	--	--	--	--	--	--	--	--
			3.4	1050	--	--	--	--	--	--	--	--
AUG 19, 75	1650	2	.3	1810	--	--	--	--	--	--	--	--
			3.0	1670	--	--	--	--	--	--	--	--
						LINE 85						
OCT 16, 74	1015	3	.3	8150	--	--	--	--	--	--	--	--
			1.7	9000	--	--	--	--	--	--	--	--
FEB 11, 75	1345	3	.3	21600	--	--	--	--	--	--	--	--
JUN 09, 75	1345	3	.3	1440	--	--	--	--	--	--	--	--
AUG 19, 75	1610	3	.3	10000	99.0	150.0	1800	71.0	172	450	3000	5710
						LINE 102						
OCT 16, 74	0840	2	.3	34000	--	--	--	--	--	--	--	--
			10.4	40400	--	--	--	--	--	--	--	--
FEB 11, 75	1700	2	.3	33400	--	--	--	--	--	--	--	--
APR 09, 75	1445	2	.3	35000	--	--	--	--	--	--	--	--
			10.7	35000	--	--	--	--	--	--	--	--
JUN 09, 75	1615	2	.5	8340	--	--	--	--	--	--	--	--
			10.7	29800	--	--	--	--	--	--	--	--
AUG 19, 75	1450	2	.3	23600	--	--	--	--	--	--	--	--
			10.4	46600	--	--	--	--	--	--	--	--

TABLE 5C--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (LAB)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
						LINE 110						
OCT 16, 74	0805	2	.3	19100	--	--	--	--	--	--	--	--
			3.4	21600	--	--	--	--	--	--	--	--
FEB 11, 75	1740	2	.3	29300	--	--	--	--	--	--	--	--
			4.0	33900	--	--	--	--	--	--	--	--
APR 09, 75	1340	2	.3	30000	--	--	--	--	--	--	--	--
			3.7	31000	--	--	--	--	--	--	--	--
JUN 09, 75	1715	2	.3	3060	--	--	--	--	--	--	--	--
			3.7	9550	--	--	--	--	--	--	--	--
						LINE 143						
OCT 16, 74	0950	3	.3	22900	--	--	--	--	--	--	--	--
			1.5	22700	--	--	--	--	--	--	--	--
FEB 11, 75	1635	3	.3	31200	--	--	--	--	--	--	--	--
			1.8	32000	--	--	--	--	--	--	--	--
APR 09, 75	1555	3	.3	34700	--	--	--	--	--	--	--	--
			1.5	34500	--	--	--	--	--	--	--	--
JUN 09, 75	1500	3	.5	10600	--	--	--	--	--	--	--	--
			2.0	10700	--	--	--	--	--	--	--	--
AUG 19, 75	1435	3	1.8	29000	250.0	700.0	5600	200.0	156	1300	9800	17900
						LINE 150						
OCT 16, 74	0900	4	.3	23600	180.0	610.0	4800	190.0	132	1300	8300	15500
			10.4	43200	320.0	1000.0	8800	360.0	144	2200	15000	27800
FEB 11, 75	1515	4	.3	24600	200.0	600.0	5200	200.0	154	1300	9000	16600
			12.2	33500	270.0	860.0	7000	280.0	144	1500	13000	23000
APR 09, 75	1510	4	.5	31900	260.0	730.0	6300	290.0	152	1600	11000	20300
			11.0	34500	--	--	--	--	--	--	--	--
JUN 09, 75	1550	4	.5	12700	100.0	260.0	2200	85.0	123	500	3900	7110
			10.4	33200	260.0	830.0	7000	260.0	138	1700	13000	23100
AUG 19, 75	1220	4	.3	26300	240.0	670.0	5000	190.0	156	1200	9300	16700
			10.7	48800	440.0	1300.0	9900	360.0	156	2500	18000	32600
						LINE 175						
OCT 16, 74	1020	1	.3	22800	--	--	--	--	--	--	--	--
			1.5	23100	--	--	--	--	--	--	--	--
FEB 11, 75	1600	1	.3	31200	--	--	--	--	--	--	--	--
			1.5	30900	--	--	--	--	--	--	--	--
APR 09, 75	1645	1	.3	34700	--	--	--	--	--	--	--	--
			1.5	34600	--	--	--	--	--	--	--	--
JUN 09, 75	1430	1	.3	17600	--	--	--	--	--	--	--	--
			1.5	21400	--	--	--	--	--	--	--	--
AUG 19, 75	1405	1	.3	29200	310.0	690.0	5600	200.0	160	1300	10000	18200
						LINE 190						
JUN 10, 75	1055	2	.3	17400	--	--	--	--	--	--	--	--

TABLE 5C--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
						LINE 19C CONTINUED						
JUN 10, 75	1055	2	1.4	17300	--	--	--	--	--	--	--	--
AUG 19, 75	0945	2	.3	34900	--	--	--	--	--	--	--	--
						LINE 200						
OCT 16, 74	1135	2	.3	25900	--	--	--	--	--	--	--	--
			10.4	39600	--	--	--	--	--	--	--	--
AUG 20, 75	1245	2	.3	39200	--	--	--	--	--	--	--	--
			11.0	51800	--	--	--	--	--	--	--	--
FEB 11, 75	1350	5	.3	30900	--	--	--	--	--	--	--	--
			1.8	30800	--	--	--	--	--	--	--	--
AUG 20, 75	1300	5	.3	41600	--	--	--	--	--	--	--	--
						LINE 224						
APR 10, 75	1225	2	.3	20700	200.0	490.0	4000	160.0	184	930	7300	13200
						LINE 229						
FEB 12, 75	1215	2	.3	22200	200.0	550.0	4700	180.0	142	1100	8400	15200
JUN 10, 75	1320	2	.3	9500	67.0	180.0	1600	65.0	120	380	2700	5060
			1.5	9600	--	--	--	--	--	--	--	--
AUG 20, 75	1640	2	.3	13700	--	--	--	--	--	--	--	--
						LINE 247						
JUN 10, 75	1220	6	.3	20900	170.0	490.0	3800	150.0	151	930	6800	12400
			1.5	21000	100.0	500.0	3800	160.0	150	960	6800	12400
						LINE 254						
OCT 15, 74	1450	2	.9	3850	79.0	91.0	650	26.0	208	170	1200	2340
APR 10, 75	1050	2	.3	4470	92.0	110.0	820	31.0	240	210	1500	2890
			3.4	13900	150.0	310.0	2600	98.0	244	680	4600	8570
AUG 20, 75	1510	2	.3	728	38.0	14.0	70	10.0	172	24	96	362
			3.0	611	--	--	--	--	--	--	--	--
						LINE 264						
OCT 15, 74	1500	2	.9	20300	--	--	--	--	--	--	--	--
FEB 12, 75	1510	2	.3	25800	--	--	--	--	--	--	--	--
APR 10, 75	1025	2	.3	28100	--	--	--	--	--	--	--	--
AUG 20, 75	1420	2	.3	18900	--	--	--	--	--	--	--	--
						LINE 270						
FEB 12, 75	1600	2	.3	30900	--	--	--	--	--	--	--	--
			4.3	30900	--	--	--	--	--	--	--	--
APR 10, 75	1100	2	.3	31500	--	--	--	--	--	--	--	--
			4.0	33800	--	--	--	--	--	--	--	--

TABLE 5C--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (LAB)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
LINE 270 CONTINUED												
AUG 20, 75	0945	2	.3	24800	--	--	--	--	--	--	--	--
			3.4	25700	--	--	--	--	--	--	--	--
LINE 284												
OCT 14, 74	1245	1	.3	28500	--	--	--	--	--	--	--	--
			1.5	28300	--	--	--	--	--	--	--	--
FEB 12, 75	1650	1	.3	28600	--	--	--	--	--	--	--	--
APR 10, 75	1120	1	.3	30900	--	--	--	--	--	--	--	--
			1.2	30700	--	--	--	--	--	--	--	--
AUG 20, 75	1010	1	.3	27500	--	--	--	--	--	--	--	--
			1.2	34600	--	--	--	--	--	--	--	--
LINE 300												
OCT 14, 74	1330	3	.3	25900	--	--	--	--	--	--	--	--
			1.8	26600	--	--	--	--	--	--	--	--
FEB 12, 75	1710	3	.5	32100	--	--	--	--	--	--	--	--
			1.5	31700	--	--	--	--	--	--	--	--
APR 10, 75	1230	3	.3	32400	--	--	--	--	--	--	--	--
			1.5	32400	--	--	--	--	--	--	--	--
AUG 20, 75	1115	3	.3	29100	--	--	--	--	--	--	--	--
			1.8	28800	--	--	--	--	--	--	--	--
LINE 333												
FEB 12, 75	1445	1	.5	7010	97.0	160.0	1300	55.0	175	320	2300	4330
			1.4	7150	100.0	180.0	1400	60.0	175	350	2400	4580
APR 09, 75	1425	1	.3	28600	250.0	670.0	5900	230.0	168	1500	11000	19600
			1.5	29500	250.0	700.0	6000	250.0	169	1400	11000	19700
AUG 20, 75	1105	1	.3	36700	--	--	--	--	172	1800	13000	--
			1.5	39600	--	--	--	--	--	--	--	--
AUG 20, 75	1205	3	.3	27000	--	--	--	--	--	--	--	--
LINE 350												
FEB 12, 75	1535	2	.5	24600	--	--	--	--	--	--	--	--
			2.7	27100	--	--	--	--	--	--	--	--
AUG 19, 75	1325	2	.3	39500	--	--	--	--	--	--	--	--
			3.0	41100	--	--	--	--	--	--	--	--
OCT 14, 74	1440	3	.3	23500	--	--	--	--	--	--	--	--
			2.1	29300	--	--	--	--	--	--	--	--
APR 10, 75	1345	3	.3	33500	--	--	--	--	--	--	--	--
			2.1	33300	--	--	--	--	--	--	--	--
LINE 363												
OCT 14, 74	1545	1	.3	38500	250.0	830.0	7500	300.0	146	1900	13000	23900
			2.4	38500	250.0	960.0	7500	300.0	146	1900	13000	24000
FEB 12, 75	1235	1	.3	27500	250.0	760.0	6300	260.0	156	1600	11000	20300
			2.3	28600	240.0	760.0	6300	250.0	157	1600	11000	20200

TABLE 5C--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
						LINE 363 CONTINUED						
APR 10, 75	1430	1	.3	35400	--	--	--	--	--	--	--	--
			1.5	35100	--	--	--	--	--	--	--	--
AUG 19, 75	1205	1	.3	42400	--	--	--	--	--	--	--	--
			2.3	42800	--	--	--	--	--	--	--	--
OCT 14, 74	1625	5	.3	34100	--	--	--	--	--	--	--	--
			3.7	34400	--	--	--	--	--	--	--	--
APR 10, 75	1525	5	.3	33900	--	--	--	--	--	--	--	--
			3.0	34300	--	--	--	--	--	--	--	--
FEB 12, 75	1020	6	.6	34400	--	--	--	--	--	--	--	--
			3.4	33300	--	--	--	--	--	--	--	--
AUG 19, 75	1045	6	.3	35300	--	--	--	--	--	--	--	--
			2.6	35700	--	--	--	--	--	--	--	--
						LINE 375						
OCT 16, 74	1235	2	.3	35200	--	--	--	--	--	--	--	--
FEB 11, 75	1650	2	.3	33300	--	--	--	--	--	--	--	--
			4.0	33900	--	--	--	--	--	--	--	--
AUG 20, 75	1400	2	.3	45100	--	--	--	--	--	--	--	--
			3.7	51200	--	--	--	--	--	--	--	--
JUN 11, 75	0935	4	.3	18300	--	--	--	--	--	--	--	--
			2.7	18300	--	--	--	--	--	--	--	--
						LINE 903						
OCT 16, 74	1255	49	.3	--	230.0	870.0	6500	270.0	150	1500	12000	21400
			14.0	--	270.0	940.0	8100	320.0	148	2000	15000	26700
FEB 11, 75	1600	49	.3	35600	290.0	920.0	7500	310.0	136	2000	14000	25100
			11.3	38900	320.0	1000.0	8500	350.0	142	2000	15000	27200
AUG 20, 75	1500	49	.3	53400	460.0	1400.0	11000	400.0	154	2800	20000	36100
			11.6	54200	--	--	--	--	--	--	--	--

TABLE 50--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 17					
FEB 11, 75	1225	2	.3	--	--	--	--	--	--	--	.5
APR 10, 75	1610	2	.3	--	--	--	--	--	--	--	.4
			3.4	--	--	--	--	--	--	--	.4
JUN 09, 75	1515	2	.3	--	--	--	--	--	--	--	.4
AUG 19, 75	1725	2	.3	--	--	--	--	--	--	--	.4
						LINE 22					
FEB 11, 75	1150	2	.3	--	--	--	--	--	--	--	.4
APR 10, 75	1545	2	.3	--	--	--	--	--	--	--	.4
			3.7	--	--	--	--	--	--	--	.3
JUN 09, 75	1535	2	.3	--	--	--	--	--	--	--	.3
AUG 19, 75	1755	2	.3	--	--	--	--	--	--	--	.4
						LINE 65					
OCT 16, 74	0930	2	.3	30	5	--	--	0	--	--	--
						LINE 85					
OCT 16, 74	1015	3	.3	30	3	2	--	0	0	--	--
AUG 19, 75	1610	3	.3	--	--	--	--	--	--	--	.7
						LINE 102					
OCT 16, 74	0840	2	.3	30	1	1	--	0	0	--	--
			10.4	30	1	1	--	0	0	--	--
						LINE 110					
OCT 16, 74	0805	2	.3	50	1	--	--	1	--	--	--
						LINE 143					
OCT 16, 74	0950	3	.3	40	2	2	--	0	0	--	--
AUG 19, 75	1435	3	1.8	--	--	--	--	--	--	--	1.1
						LINE 150					
OCT 16, 74	0900	4	.3	340	2	2	--	1	0	--	--
			10.4	40	0	--	--	1	--	--	--
FEB 11, 75	1515	4	.3	--	--	--	--	--	--	--	1.0
			12.2	--	--	--	--	--	--	--	1.2
APR 09, 75	1510	4	.5	--	--	--	--	--	--	--	1.1
JUN 09, 75	1550	4	.5	--	--	--	--	--	--	--	.4
			10.4	--	--	--	--	--	--	--	1.4
AUG 19, 75	1220	4	.3	--	--	--	--	--	--	--	1.0

TABLE 50--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 150 CONTINUED					
AUG 19, 75	1220	4	10.7	--	--	--	--	--	--	--	1.4
						LINE 175					
OCT 16, 74	1020	1	.3	40	1	--	--	1	--	--	--
AUG 19, 75	1405	1	.3	--	--	--	--	--	--	--	1.1
						LINE 200					
OCT 16, 74	1135	2	.3	10	1	2	--	0	0	--	--
						LINE 224					
APR 10, 75	1225	2	.3	--	--	--	--	--	--	--	.7
						LINE 229					
FEB 12, 75	1215	2	.3	--	--	--	--	--	--	--	.9
JUN 10, 75	1320	2	.3	--	--	--	--	--	--	--	.6
						LINE 247					
JUN 10, 75	1220	6	.3	--	--	--	--	--	--	--	.7
			1.5	--	--	--	--	--	--	--	.8
						LINE 254					
OCT 15, 74	1450	2	.9	80	3	--	--	1	--	--	--
APR 10, 75	1050	2	.3	--	--	--	--	--	--	--	.5
			3.4	--	--	--	--	--	--	--	.7
AUG 20, 75	1510	2	.3	--	--	--	--	--	--	--	.5
						LINE 264					
OCT 15, 74	1500	2	.9	120	1	5	--	2	0	--	--
						LINE 333					
FEB 12, 75	1445	1	.5	--	--	--	--	--	--	--	.5
			1.4	--	--	--	--	--	--	--	.5
APR 09, 75	1425	1	.3	--	--	--	--	--	--	--	.9
			1.5	--	--	--	--	--	--	--	1.0
AUG 20, 75	1105	1	.3	--	--	--	--	--	--	--	1.1
						LINE 350					
OCT 14, 74	1440	3	.3	30	1	2	--	1	0	--	--
						LINE 363					
OCT 14, 74	1545	1	.3	40	1	--	--	2	--	--	--
FEB 12, 75	1235	1	.3	--	--	--	--	--	--	--	1.1

TABLE 5D--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
					LINE 363 CONTINUED						
FEB 12, 75	1235	1	2.3	--	--	--	--	--	--	--	1.1
OCT 14, 74	1625	5	.3	30	1	1	--	--	0	--	--
						LINE 375					
OCT 16, 74	1235	2	.3	60	2	--	--	1	--	--	--
						LINE 903					
OCT 16, 74	1255	49	.3	160	2	--	--	--	--	--	--
FEB 11, 75	1600	49	.3	--	--	--	--	--	--	--	1.2
			11.3	--	--	--	--	--	--	--	1.3
AUG 20, 75	1500	49	.3	--	--	--	--	--	--	--	1.5

TABLE 50--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	BOTTOM DEPOSIT COBALT (CO) (UG/GM)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	BOTTOM DEPOSIT COPPER (CU) (UG/GM)
						LINE 65					
OCT 16, 74	0930	2	.3	5.00	--	0	--	--	4	--	--
						LINE 85					
OCT 16, 74	1015	3	.3	3.00	< 10.00	0	3	--	6	5.0	--
						LINE 102					
OCT 16, 74	0840	2	.3	1.00	< 10.00	0	0	--	4	3.0	--
			10.4	3.00	< 10.00	0	0	--	4	12.0	--
						LINE 110					
OCT 16, 74	0805	2	.3	4.00	--	0	--	--	11	--	--
						LINE 143					
OCT 16, 74	0950	3	.3	3.00	< 10.00	0	3	--	4	4.0	--
						LINE 150					
OCT 16, 74	0900	4	.3	3.00	< 10.00	0	0	--	4	5.0	--
			10.4	1.00	--	0	--	--	3	--	--
						LINE 175					
OCT 16, 74	1020	1	.3	1.00	--	0	--	--	3	--	--
						LINE 200					
OCT 16, 74	1135	2	.3	1.00	< 10.00	0	0	--	3	4.0	--
						LINE 254					
OCT 15, 74	1450	2	.9	3.00	--	0	--	--	5	--	--
						LINE 264					
OCT 15, 74	1500	2	.9	1.00	10.00	0	7	--	6	18.0	--
						LINE 350					
OCT 14, 74	1440	3	.3	1.00	< 10.00	0	0	--	3	5.0	--
						LINE 363					
OCT 14, 74	1545	1	.3	1.00	--	0	--	--	5	--	--
OCT 14, 74	1625	5	.3	1.00	< 10.00	--	3	--	--	6.0	--
						LINE 375					
OCT 16, 74	1235	2	.3	4.00	--	0	--	--	4	--	--
						LINE 903					
OCT 16, 74	1255	49	.3	4.00	--	--	--	--	--	--	--

TABLE 5D--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CYANIDE (CN) (MG/L)	BOTTOM DEPOSIT CYANIDE (CN) (UG/GM)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	BOTTOM DEPOSIT IRON (FE) (UG/GM)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	BOTTOM DEPOSIT LEAD (PB) (UG/GM)
						LINE 65					
OCT 16, 74	0930	2	.3	--	--	10	--	--	0	--	--
						LINE 85					
OCT 16, 74	1015	3	.3	--	--	30	480	--	0	0	--
						LINE 102					
OCT 16, 74	0840	2	.3	--	--	90	440	--	0	6	--
			10.4	--	--	90	5700	--	0	4	--
						LINE 110					
OCT 16, 74	0805	2	.3	--	--	60	--	--	0	--	--
						LINE 143					
OCT 16, 74	1000	1	.3	--	--	100	1200	--	0	0	--
						LINE 150					
OCT 16, 74	0900	4	.3	--	--	70	170	--	0	1	--
			10.4	--	--	140	--	--	0	--	--
						LINE 175					
OCT 16, 74	1020	1	.3	--	--	70	--	--	0	--	--
						LINE 200					
OCT 16, 74	1135	2	.3	--	--	60	750	--	2	2	--
						LINE 254					
OCT 15, 74	1450	2	.9	--	--	20	--	--	0	--	--
						LINE 264					
OCT 15, 74	1500	2	.9	--	--	90	5600	--	0	16	--
						LINE 350					
OCT 14, 74	1440	3	.3	--	--	60	650	--	3	3	--
						LINE 363					
OCT 14, 74	1545	1	.3	--	--	90	--	--	2	--	--
OCT 14, 74	1625	5	.3	--	--	80	530	--	--	0	--
						LINE 375					
OCT 16, 74	1235	2	.3	--	--	90	--	--	3	--	--
						LINE 903					
OCT 16, 74	1255	49	.3	--	--	170	--	--	--	--	--

TABLE 50--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED LITH-IUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BOTTOM DEPOSIT MAN-GANESE (MN) (UG/GM)	DIS-SOLVED MER-CURY (HG) (UG/L)	TOTAL MER-CURY (HG) (UG/L)	BOTTOM DEPOSIT MER-CURY (HG) (UG/GM)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
						LINE 65						
OCT 16, 74	0930	2	.3	17	15	--	--	.2	--	--	0	870
						LINE 85						
OCT 16, 74	1015	3	.3	33	35	43	--	.2	.6	--	0	1300
						LINE 102						
OCT 16, 74	0840	2	.3	100	75	98	--	.2	--	--	0	3800
			10.4	120	120	220	--	.1	--	--	2	4200
						LINE 110						
OCT 16, 74	0805	2	.3	58	75	--	--	.2	--	--	2	2400
						LINE 143						
OCT 16, 74	0950	3	.3	17	66	95	--	.1	.5	--	3	2800
						LINE 150						
OCT 16, 74	0900	4	.3	75	54	53	--	.2	.3	--	3	2900
			10.4	130	110	--	--	.1	--	--	2	4600
						LINE 175						
OCT 16, 74	1020	1	.3	75	75	--	--	.2	--	--	0	2900
						LINE 200						
OCT 16, 74	1135	2	.3	83	30	60	--	.6	.4	--	0	3200
						LINE 254						
OCT 15, 74	1450	2	.9	25	40	--	--	.2	--	--	0	850
						LINE 264						
OCT 15, 74	1500	2	.9	67	45	500	--	.5	.7	--	0	2600
						LINE 350						
OCT 14, 74	1440	3	.3	75	65	60	--	.2	.2	--	0	2700
						LINE 363						
OCT 14, 74	1545	1	.3	120	110	--	--	.1	--	--	0	4100
OCT 14, 74	1625	5	.3	100	70	95	--	.5	.5	--	--	3700
						LINE 375						
OCT 16, 74	1235	2	.3	100	81	--	--	.2	--	--	0	3800
						LINE 903						
OCT 16, 74	1255	49	.3	--	97	--	--	.3	--	--	--	--

TABLE 50--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	BOTTOM DEPOSIT ZINC (ZN) (UG/GM)
						LINE 65
OCT 16, 74	0930	2	.3	8	--	--
						LINE 85
OCT 16, 74	1015	3	.3	20	20	--
						LINE 102
OCT 16, 74	0840	2	.3	50	60	--
			10.4	50	80	--
						LINE 110
OCT 16, 74	0805	2	.3	60	--	--
						LINE 143
OCT 16, 74	0950	3	.3	30	50	--
						LINE 150
OCT 16, 74	0900	4	.3	50	50	--
			10.4	80	--	--
						LINE 175
OCT 16, 74	1020	1	.3	40	--	--
						LINE 200
OCT 16, 74	1135	2	.3	40	40	--
						LINE 254
OCT 15, 74	1450	2	.9	30	--	--
						LINE 264
OCT 15, 74	1500	2	.9	30	70	--
						LINE 350
OCT 14, 74	1440	3	.3	40	40	--
						LINE 363
OCT 14, 74	1545	1	.3	60	--	--
OCT 14, 74	1625	5	.3	50	5	--
						LINE 375
OCT 16, 74	1235	2	.3	40	--	--
						LINE 903
OCT 16, 74	1255	49	.3	170	--	--

TABLE 5E--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL ALDRIN (UG/L)	BOTTOM DEPOSIT ALDRIN (UG/KG)	TOTAL CHLOR-DANE (UG/L)	BOTTOM DEPOSIT CHLOR-DANE (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDD (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDE (UG/KG)
						LINE 85					
OCT 16, 74	1015	3	.3	.00	--	.0	--	.00	--	.00	--
			1.7	--	.0	--	.0	--	.0	--	1.2
						LINE 102					
OCT 16, 74	0840	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 110					
OCT 16, 74	0805	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 143					
OCT 16, 74	1000	1	.3	.00	--	.0	--	.00	--	.00	--
						LINE 175					
OCT 16, 74	1020	1	.3	.00	--	.0	--	.00	--	.00	--
						LINE 200					
OCT 16, 74	1135	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 254					
OCT 15, 74	1450	2	.9	--	.0	--	--	--	--	--	--
						LINE 264					
OCT 15, 74	1500	2	.9	.00	.0	.0	.0	.00	1.4	.00	19.0
						LINE 363					
OCT 14, 74	1625	5	.3	.00	--	.0	--	.00	--	.00	--
						LINE 903					
OCT 16, 74	1255	49	.3	.00	--	.0	--	.00	--	.00	--

TABLE 5E--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL DDT (UG/L)	BOTTOM DEPOSIT DDT (UG/KG)	TOTAL DIEL-DRIN (UG/L)	BOTTOM DEPOSIT DIEL-DRIN (UG/KG)	TOTAL ENDRIN (UG/L)	BOTTOM DEPOSIT ENDRIN (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR (UG/KG)
						LINE 85					
OCT 16, 74	1015	3	.3	.00	--	.00	--	.00	--	.00	--
			1.7	--	.0	--	.0	--	.0	--	.0
						LINE 102					
OCT 16, 74	0840	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 110					
OCT 16, 74	0805	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 143					
OCT 16, 74	1000	1	.3	.00	--	.00	--	.00	--	.00	--
						LINE 175					
OCT 16, 74	1020	1	.3	.00	--	.00	--	.00	--	.00	--
						LINE 200					
OCT 16, 74	1135	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 264					
OCT 15, 74	1500	2	.9	.00	1.5	.00	.0	.00	.0	.00	.0
						LINE 363					
OCT 14, 74	1625	5	.3	.00	--	.00	--	.00	--	.00	--
						LINE 903					
OCT 16, 74	1255	49	.3	.00	--	.00	--	.00	--	.00	--

TABLE 5E--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR EPOXIDE (UG/KG)	TOTAL LINDANE (UG/L)	BOTTOM DEPOSIT LINDANE (UG/KG)	TOTAL PARA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL DIAZ-INON (UG/L)
						LINE 85					
OCT 16, 74	1015	3	.3	.00	--	.00	--	.00	.00	.00	.00
			1.7	--	.0	--	.0	--	--	--	--
						LINE 102					
OCT 16, 74	0840	2	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 110					
OCT 16, 74	0805	2	.3	.00	--	.00	--	.00	.00	.03	.00
						LINE 143					
OCT 16, 74	1000	1	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 175					
OCT 16, 74	1020	1	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 200					
OCT 16, 74	1135	2	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 264					
OCT 15, 74	1500	2	.9	.00	.0	.00	.0	.00	.00	.00	.01
						LINE 363					
OCT 14, 74	1625	5	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 903					
OCT 16, 74	1255	49	.3	.00	--	.00	--	.00	.00	.00	.00

TABLE 5E--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL PCB (UG/L)	BOTTOM DEPOSIT PCB (UG/KG)	TOTAL 2,4-D (UG/L)	BOTTOM DEPOSIT 2,4-D (UG/KG)	TOTAL 2,4,5-T (UG/L)	BOTTOM DEPOSIT 2,4,5-T (UG/KG)	TOTAL SILVEX (UG/L)	BOTTOM DEPOSIT SILVEX (UG/KG)
						LINE 85					
OCT 16, 74	1015	3	.3	.0	--	.00	--	.00	--	.00	--
			1.7	--	.0	--	--	--	--	--	--
						LINE 102					
OCT 16, 74	0840	2	.3	.0	--	.00	--	.00	--	.00	--
						LINE 110					
OCT 16, 74	0805	2	.3	.0	--	.00	--	.00	--	.00	--
						LINE 143					
OCT 16, 74	1000	1	.3	.0	--	.00	--	.00	--	.00	--
						LINE 150					
OCT 16, 74	0930	1	.3	--	--	.00	--	.00	--	.00	--
OCT 16, 74	0900	4	10.4	--	--	--	.0	--	.0	--	--
						LINE 175					
OCT 16, 74	1020	1	.3	.0	--	.00	--	.00	--	.00	--
						LINE 200					
OCT 16, 74	1135	2	.3	.0	--	.00	--	.00	--	.00	--
						LINE 264					
OCT 15, 74	1500	2	.9	.0	.0	.00	--	.00	--	.00	--
						LINE 363					
OCT 14, 74	1625	5	.3	.0	--	.00	--	.00	--	.00	--
						LINE 903					
OCT 16, 74	1255	49	.3	.0	--	.00	--	.00	--	.00	--

TABLE 5E--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL TOXA-PHENE (UG/L)	BOTTOM DEPOSIT TOXA-PHENE (UG/KG)	TOTAL ETHION (UG/L)	BOTTOM DEPOSIT ETHION (UG/KG)	TOTAL METHYL TRI-THION (UG/L)	BOTTOM DEPOSIT METHYL TRI-THION (UG/KG)	TOTAL TRI-THION (UG/L)	BOTTOM DEPOSIT TRI-THION (UG/KG)
						LINE 65					
OCT 16, 74	1015	3	.3	.0	--	--	--	--	--	--	--
			1.7	--	0.	--	--	--	--	--	--
						LINE 102					
OCT 16, 74	0840	2	.3	.0	--	--	--	--	--	--	--
						LINE 110					
OCT 16, 74	0805	2	.3	.0	--	--	--	--	--	--	--
						LINE 143					
OCT 16, 74	1000	1	.3	.0	--	--	--	--	--	--	--
						LINE 175					
OCT 16, 74	1020	1	.3	.0	--	--	--	--	--	--	--
						LINE 200					
OCT 16, 74	1135	2	.3	.0	--	--	--	--	--	--	--
						LINE 264					
OCT 15, 74	1500	2	.9	.0	0.	--	--	--	--	--	--
						LINE 363					
OCT 14, 74	1625	5	.3	.0	--	--	--	--	--	--	--
						LINE 503					
OCT 16, 74	1255	49	.3	.0	--	--	--	--	--	--	--

TABLE 5F--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
						LINE 17	
FEB 11, 75	1225	2	.3	--	--	--	.00
JUN 09, 75	1515	2	.3	--	23	52	.40
AUG 19, 75	1725	2	.3	--	--	44	3.20
						LINE 22	
FEB 11, 75	1150	2	.3	--	--	--	1.00
APR 10, 75	1545	2	.3	--	--	--	.00
JUN 09, 75	1535	2	.3	280	40	200	1.00
AUG 19, 75	1755	2	.3	80	--	36	5.40
						LINE 65	
OCT 16, 74	0930	2	.3	--	*	130	--
FEB 11, 75	1305	2	.3	--	--	--	1.60
APR 10, 75	1645	2	.3	--	600	650	.00
JUN 09, 75	1440	2	.3	20	4	12	1.00
AUG 19, 75	1650	2	.3	--	--	30	3.10
						LINE 85	
OCT 16, 74	1015	3	.3	--	*	4	--
FEB 11, 75	1345	3	.3	--	--	--	1.10
JUN 09, 75	1345	3	.3	--	80	93	--
AUG 19, 75	1610	3	.3	0	--	4	2.30
						LINE 110	
OCT 16, 74	0805	2	.3	--	*	180	--
APR 09, 75	1340	2	.3	180	--	40	--
JUN 09, 75	1715	2	.3	--	*	180	--
						LINE 143	
OCT 16, 74	0950	3	.3	--	150	2	--
FEB 11, 75	1635	3	.3	--	--	--	.00
APR 09, 75	1555	3	.3	36	--	12	.40
JUN 09, 75	1500	3	.3	--	2	38	--
AUG 19, 75	1435	3	.3	2	--	0	2.50
						LINE 150	
OCT 16, 74	0900	4	.3	--	1	31	--

* - TOO NUMEROUS TO COUNT

TABLE 5F--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
				LINE 15C CONTINUED			
FEB 11, 75	1515	4	.3	--	--	--	.60
APR 09, 75	1510	4	.5	--	--	12	1.20
AUG 19, 75	1220	4	.3	10	--	6	.90
				LINE 175			
OCT 16, 74	1020	1	.3	0	0	2	--
FEB 11, 75	1600	1	.3	--	--	--	.60
APR 09, 75	1645	1	.3	220	--	320	.30
AUG 19, 75	1405	1	.3	2	--	4	1.10
				LINE 190			
JUN 10, 75	1055	2	.3	10	0	6	.40
AUG 19, 75	0945	2	.3	--	--	--	1.50
				LINE 200			
OCT 16, 74	1135	2	.3	0	0	4	--
FEB 11, 75	1350	5	.3	--	--	--	.40
AUG 20, 75	1300	5	.3	5	--	0	.60
				LINE 224			
APR 10, 75	1225	2	.3	12	13	4	.30
				LINE 229			
FEB 12, 75	1215	2	.3	--	--	--	1.30
JUN 10, 75	1320	2	.3	--	12	6	3.40
AUG 20, 75	1640	2	.3	--	--	64	1.10
				LINE 254			
OCT 15, 74	1450	2	.9	--	100	74	--
APR 10, 75	1050	2	.3	70	46	42	7.00
AUG 20, 75	1510	2	.3	--	--	14	--
				LINE 264			
OCT 15, 74	1500	2	.9	--	*	36	--
FEB 12, 75	1510	2	.3	--	--	--	.60
APR 10, 75	1025	2	.3	70	20	40	1.70
AUG 20, 75	1420	2	.3	--	--	10	.50

* - TOO NUMEROUS TO COUNT

TABLE 5F--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
						LINE 270	
APR 10, 75	1100	2	.3	*	*	75	.30
AUG 20, 75	0945	2	.3	--	--	148	--
						LINE 284	
OCT 14, 74	1245	1	.3	--	--	--	.10
APR 10, 75	1120	1	.3	--	2	6	1.40
AUG 20, 75	1010	1	.3	--	--	--	.70
						LINE 300	
OCT 14, 74	1330	3	.3	--	--	--	.70
FEB 12, 75	1710	3	.3	--	--	--	.60
APR 10, 75	1230	3	.3	--	--	--	.50
AUG 20, 75	1115	3	.3	--	--	--	.80
						LINE 333	
FEB 12, 75	1445	1	.5	--	--	--	.10
APR 09, 75	1425	1	.3	--	--	170	2.50
AUG 20, 75	1105	1	.3	--	--	40	3.90
AUG 20, 75	1205	3	.3	--	--	--	1.30
						LINE 350	
FEB 12, 75	1535	2	.5	--	--	--	6.70
AUG 19, 75	1325	2	.3	--	--	--	.80
APR 10, 75	1345	3	.3	--	--	--	1.60
						LINE 363	
OCT 14, 74	1545	1	.3	0	0	1	--
FEB 12, 75	1235	1	.3	--	--	--	.40
APR 10, 75	1430	1	.3	80	0	4	.70
AUG 19, 75	1205	1	.3	0	--	0	2.80
OCT 14, 74	1625	5	.3	2	0	0	--
APR 10, 75	1525	5	.3	1	0	0	.50
FEB 12, 75	1020	6	.6	--	--	--	.40
AUG 19, 75	1045	6	.3	2	--	0	1.50
						LINE 375	
FEB 11, 75	1650	2	.3	--	--	--	.00

TABLE 5F--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
				LINE 375 CONTINUED			
AUG 20, 75	1400	2	.3	--	--	--	1.90
				LINE 503			
OCT 16, 74	1255	49	.3	0	0	0	--
FEB 11, 75	1600	49	.3	--	--	--	.30
AUG 20, 75	1500	49	.3	16	--	9	.40

Guadalupe Estuary

The Guadalupe estuary covers an area of about 210 square miles (544 km^2) and consists of the tidal parts of the Guadalupe River, Mission Lake, Guadalupe Bay, Hynes Bay, San Antonio Bay, Espiritu Santo Bay, Mesquite Bay, Victoria Channel, and parts of the Intracoastal Waterway (Figure 7). At mlw the Guadalupe River is about 10 feet (3.0 m) deep; Mission Lake, Guadalupe Bay, and Hynes Bay are less than 3 feet (0.9 m) deep; San Antonio Bay is less than 6 feet (1.8 m) deep; Espiritu Santo Bay is about 8 feet (2.4 m) deep; Mesquite Bay is about 4 feet (1.2 m) deep; Victoria Channel is more than 8 feet (2.4 m) deep; and the Intracoastal Waterway is about 15 feet (4.6 m) deep.

Water-quality data (Table 6) were collected during October 1974 and January, April, May, and August 1975.

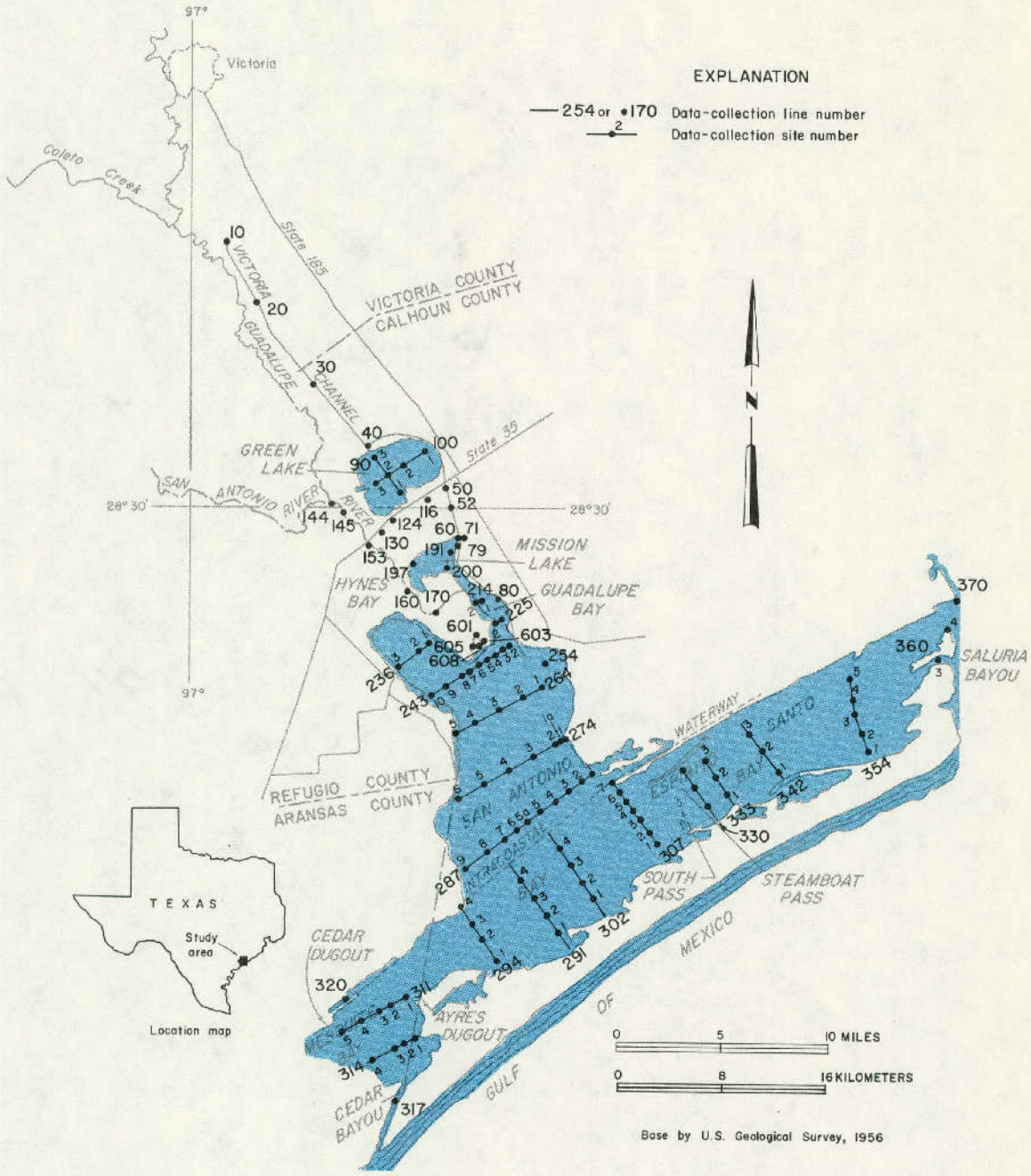

Figure 7.—Data-Collection Sites in the Guadalupe Estuary

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
						LINE 40				
AUG 26, 75	1700	2	.3	1400	27.7	8.1	7.2	90	140.	14
			1.5	1400	27.2	8.1	7.2	91	200.	--
			3.4	1400	27.2	8.0	6.8	86	280.	--
						LINE 80				
OCT 16, 74	1425	2	.3	6000	22.5	8.3	7.8	91	30.	55
			.9	6800	22.5	8.2	8.0	93	30.	--
			1.5	16000	21.8	8.1	6.0	71	40.	--
			3.4	22000	21.8	8.1	5.4	66	150.	--
APR 15, 75	1705	2	.3	6000	22.0	8.3	10.3	120	--	37
			1.5	15000	21.5	8.1	9.1	107	--	--
			2.4	23000	20.5	8.0	7.1	84	--	--
			3.7	33000	20.4	7.9	5.0	62	--	--
MAY 27, 75	1445	2	.3	1800	28.8	--	7.8	100	375.	14
			2.7	1800	28.9	--	7.5	96	375.	--
AUG 26, 75	1625	2	.3	820	27.8	8.2	6.7	83	65.	26
			1.5	820	27.6	8.2	6.7	84	70.	--
			3.7	770	27.4	8.2	6.8	85	85.	--
						LINE 145				
JAN 28, 75	1640	2	.3	800	18.3	8.2	9.3	98	40.	35
			1.5	800	18.3	8.2	9.3	98	30.	--
			3.0	800	18.4	8.2	9.4	99	30.	--
						LINE 153				
APR 15, 75	1430	2	.3	730	20.9	8.0	8.0	89	--	15
			1.5	730	20.9	8.0	8.0	89	--	--
			3.0	750	20.9	8.0	8.0	89	--	--
			4.6	800	20.9	8.0	8.0	89	--	--
MAY 27, 75	1620	2	.3	560	26.0	--	5.7	70	> 500.	
			1.5	550	26.0	--	5.7	70	> 500.	--
			3.0	550	26.0	--	5.7	70	> 500.	--
			6.1	550	26.0	--	5.7	70	> 500.	--
						LINE 170				
OCT 16, 74	1515	2	.3	760	23.4	7.9	6.2	72	70.	23
			.9	760	23.4	7.9	7.6	88	75.	--
			1.5	760	22.3	7.9	8.2	93	85.	--
			3.0	750	22.7	8.0	7.4	85	75.	--
JAN 28, 75	1740	2	.3	800	18.4	8.2	8.8	93	50.	29
			1.5	800	18.6	8.2	8.9	95	40.	--
			2.7	800	18.6	8.0	9.3	99	400.	--
APR 15, 75	1515	2	.3	650	21.2	8.0	8.0	89	--	15
			1.5	650	21.2	8.0	8.0	89	--	--
			2.7	620	21.5	8.0	8.1	91	--	--
MAY 27, 75	1530	2	.3	600	26.9	--	5.6	69	> 500.	10
			1.5	600	26.9	--	5.6	69	> 500.	--
			2.7	600	27.0	--	5.7	70	> 500.	--
AUG 26, 75	1555	2	.3	740	28.0	7.9	6.1	77	60.	27
			1.5	740	27.9	7.9	6.0	76	60.	--

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 170 CONTINUED					
AUG 26, 75	1555	2	3.0	740	27.8	7.9	6.0	76	85.	--
						LINE 200				
OCT 16, 74	1545	2	.3	750	19.7	8.0	7.6	82	60.	28
			1.2	750	19.9	8.0	7.5	82	70.	--
JAN 28, 75	1755	2	.3	800	20.7	8.4	8.6	95	115.	18
			.9	800	20.7	8.3	8.7	96	100.	--
APR 15, 75	1530	2	.3	680	22.5	8.1	8.9	101	--	30
			.9	680	22.5	8.1	9.1	103	--	--
MAY 27, 75	1510	2	.3	540	29.9	--	6.9	91	90.	38
			1.1	700	29.9	--	7.0	92	40.	--
AUG 26, 75	1530	2	.3	740	27.7	8.2	7.4	93	95.	21
			1.2	740	27.7	8.2	7.3	91	95.	--
						LINE 225				
OCT 16, 74	1615	1	.3	1800	20.7	8.2	7.9	88	65.	30
			.9	1800	20.7	8.2	7.9	88	55.	--
JAN 28, 75	1550	1	.3	700	21.4	8.4	9.4	106	100.	18
			.6	700	21.4	8.4	9.4	106	100.	--
APR 15, 75	1555	1	.3	1000	22.4	8.2	9.5	108	--	--
			1.2	4600	21.9	8.2	8.4	97	--	--
MAY 27, 75	1720	1	.3	500	29.8	--	9.9	130	70.	29
			.9	500	29.8	--	9.8	129	80.	--
AUG 26, 75	1520	1	.3	730	27.6	8.3	7.8	98	60.	28
			.9	730	27.6	8.3	7.6	95	60.	--
OCT 16, 74	1620	2	.3	600	19.8	8.1	7.6	83	95.	19
			1.2	600	19.8	8.1	7.5	82	120.	--
JAN 28, 75	1540	2	.3	800	21.0	8.4	9.0	110	105.	12
			.9	800	20.8	8.4	9.1	101	95.	--
APR 15, 75	1550	2	.3	930	22.9	8.3	9.7	111	--	35
			.9	1200	22.8	8.3	9.6	110	--	--
MAY 27, 75	1715	2	.3	1700	29.5	--	7.8	101	50.	26
			.9	1500	29.4	--	7.8	101	80.	--
AUG 26, 75	1515	2	.3	740	26.9	8.3	8.5	105	100.	29
			1.2	730	26.9	8.4	8.2	101	120.	--
						LINE 236				
OCT 16, 74	1725	1	.3	2200	20.5	8.6	10.3	119	70.	23
			.9	3000	19.9	8.5	8.7	96	140.	--
JAN 28, 75	1450	1	.3	1400	21.0	8.7	9.9	110	300.	9
			.6	1400	20.9	8.7	9.9	110	280.	--
APR 15, 75	1615	1	.3	7300	22.0	8.7	12.3	143	--	15
			.9	7300	22.0	8.7	12.5	145	--	--
MAY 28, 75	1245	1	.3	1500	26.8	--	7.7	95	150.	20
			.9	1000	26.8	--	7.6	94	150.	--
AUG 26, 75	1415	1	.3	1100	27.9	8.2	4.3	54	85.	23

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 236 CONTINUED						
AUG 26, 75	1415	1	.9	1100	27.9	8.2	4.4	56	90.	--
JAN 28, 75	1440	2	.3	2000	20.6	8.8	10.0	111	325.	9
			.6	1900	20.5	8.8	10.0	111	325.	--
APR 15, 75	1630	2	.3	8300	22.1	8.6	11.9	138	--	13
			.9	8300	22.1	8.6	11.9	138	--	--
MAY 28, 75	1240	2	.3	2000	26.9	--	7.8	98	140.	15
			.9	2000	26.9	--	7.7	96	140.	--
AUG 26, 75	1410	2	.3	730	27.8	8.3	7.1	90	50.	28
			.9	730	27.8	8.2	6.9	87	50.	--
OCT 16, 74	1715	3	.3	3300	20.6	8.5	8.3	92	90.	22
			.9	3200	20.1	7.6	8.3	91	160.	--
JAN 28, 75	1430	3	.3	8300	20.1	8.8	9.3	104	160.	18
			.6	8300	20.1	8.8	9.4	106	110.	--
APR 15, 75	1640	3	.3	9000	22.1	8.5	11.6	135	--	12
			.9	9000	22.1	8.5	11.1	129	--	--
MAY 28, 75	1235	3	.3	1000	26.8	--	7.3	90	130.	17
			.9	1000	26.8	--	7.2	89	150.	--
AUG 26, 75	1405	3	.3	650	27.8	8.2	6.9	87	45.	29
			.9	650	27.8	8.2	6.9	87	45.	--
				LINE 243						
JAN 28, 75	1900	2	.3	5400	20.9	8.8	10.2	116	60.	--
			1.5	7100	21.1	8.8	10.4	118	60.	--
			3.0	7800	20.7	8.8	9.7	109	25.	--
APR 15, 75	1620	2	.3	14000	22.0	--	10.9	128	50.	--
			1.8	34000	21.5	--	9.6	123	75.	--
			3.7	34000	21.5	--	8.9	113	40.	--
MAY 28, 75	1320	2	.3	1500	26.7	--	8.0	99	100.	22
			1.5	1500	26.7	--	7.4	91	120.	--
			3.4	2000	26.7	--	7.3	91	120.	--
AUG 26, 75	1325	2	.3	900	28.0	8.2	7.0	89	40.	26
			1.5	1300	27.9	8.2	6.8	86	55.	--
			3.0	2100	27.8	8.2	6.5	83	60.	--
OCT 16, 74	1630	3	.3	1200	19.8	8.3	7.5	82	75.	24
			.9	1300	19.9	8.2	7.8	85	75.	--
			1.2	11000	20.0	7.9	5.5	62	115.	--
JAN 28, 75	1835	3	.3	3200	20.1	8.5	8.9	98	25.	--
			.6	3200	20.3	8.4	9.3	103	30.	--
APR 15, 75	1610	3	.3	9500	21.9	--	10.0	116	45.	46
			.9	9500	21.9	--	7.3	85	40.	--
MAY 28, 75	1315	3	.3	650	26.5	--	8.0	98	90.	17
			.9	600	26.2	--	7.9	96	80.	--
AUG 26, 75	1335	3	.3	2000	27.8	8.3	7.3	94	70.	27
			.9	2100	28.0	8.3	7.1	91	80.	--
OCT 16, 74	1640	5	.3	2100	20.2	8.3	7.7	85	70.	28
			1.2	2800	20.3	8.3	6.3	70	170.	--
JAN 28, 75	1520	5	.3	800	20.5	8.4	9.2	101	95.	20
			.9	800	20.4	8.4	9.2	101	90.	--

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 243 CONTINUED						
APR 15, 75	1600	5	.3	3100	22.1	--	10.2	115	40.	46
			1.2	3200	22.1	--	10.2	115	40.	--
MAY 28, 75	1305	5	.3	660	26.2	--	7.9	96	110.	19
			1.2	600	26.1	--	7.9	96	140.	--
AUG 26, 75	1340	5	.3	750	28.1	8.4	7.5	95	40.	36
			1.2	650	28.0	8.3	7.3	92	50.	--
OCT 16, 74	1655	7	.3	6100	21.0	8.3	7.4	84	115.	23
			1.2	9500	20.1	8.2	6.5	73	120.	--
JAN 28, 75	1510	7	.3	800	20.8	8.4	9.3	103	90.	19
			.9	800	20.7	8.4	9.3	102	60.	--
APR 15, 75	1550	7	.3	9000	22.0	--	10.8	126	30.	51
			1.2	10000	22.1	--	10.5	122	100.	--
MAY 28, 75	1300	7	.3	600	26.5	--	7.5	91	110.	17
			1.2	600	26.5	--	7.5	91	110.	--
AUG 26, 75	1350	7	.3	1100	28.0	8.0	7.1	90	70.	25
			1.2	2100	28.1	7.8	5.6	72	100.	--
OCT 16, 74	1700	9	.3	3800	21.4	8.5	9.1	103	60.	24
			.9	7300	20.5	8.3	8.8	99	50.	--
			1.4	7800	19.8	8.2	7.8	87	100.	--
JAN 28, 75	1500	9	.3	5600	20.1	8.8	10.7	119	65.	22
			.9	5200	20.1	8.8	10.7	119	70.	--
APR 15, 75	1540	9	.3	12000	22.0	--	11.7	138	25.	60
			.9	12000	22.0	--	11.5	135	25.	--
MAY 28, 75	1225	9	.3	1000	27.0	--	7.5	93	160.	13
			1.2	1000	26.9	--	7.5	93	180.	--
AUG 26, 75	1400	9	.3	700	27.9	8.3	7.3	92	55.	25
			1.2	1100	27.8	8.2	6.7	85	80.	--
				LINE 254						
OCT 16, 74	1350	2	.3	7900	20.4	8.5	7.8	88	50.	33
			1.5	19500	21.2	8.0	5.5	65	180.	--
JAN 28, 75	1925	2	.3	10000	21.8	8.8	9.2	107	60.	--
			.9	11000	21.1	8.6	9.7	109	80.	--
APR 15, 75	1700	2	.3	23000	22.5	--	9.7	118	70.	56
			1.2	23000	22.0	--	8.7	107	65.	--
MAY 28, 75	0915	2	.3	4200	26.9	--	7.1	89	100.	26
			1.2	5000	26.9	--	6.7	84	100.	--
			2.4	7000	26.9	--	6.6	84	90.	--
AUG 26, 75	1010	2	.3	4500	27.3	8.6	7.0	88	50.	23
			2.4	5200	27.0	8.5	6.8	86	--	--
				LINE 264						
OCT 16, 74	1815	1	.3	5300	20.2	8.4	8.1	90	55.	24
			.9	6500	20.3	8.3	10.0	112	60.	--
			1.5	17000	20.0	8.2	7.5	86	55.	--
			3.7	29000	20.2	7.9	6.9	83	70.	--
JAN 28, 75	1345	1	.3	5600	19.9	8.8	10.4	116	45.	28
			1.8	6200	19.7	8.8	9.0	99	45.	--

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 264 CONTINUED						
JAN 28, 75	1345	1	3.7	8300	19.5	8.7	7.8	87	55.	--
APR 15, 75	1635	1	.3	25000	21.7	--	9.8	121	45.	61
			2.4	25000	22.0	--	6.5	80	10.	--
MAY 28, 75	1135	1	.3	2000	26.9	--	7.5	94	90.	18
			1.5	2000	26.9	--	7.3	91	70.	--
			3.4	4500	26.8	--	6.9	86	120.	--
AUG 26, 75	1235	1	.3	4600	27.3	8.3	7.2	90	70.	17
			1.5	4700	27.2	8.2	6.8	85	80.	--
			2.4	7500	27.2	8.3	6.6	84	90.	--
			3.4	9700	27.2	8.2	6.4	81	125.	--
OCT 16, 74	1805	2	.3	4500	20.3	8.5	10.0	110	55.	25
			.9	6500	20.2	8.3	9.4	104	95.	--
			1.5	10000	19.9	8.2	7.4	83	120.	--
JAN 28, 75	1400	2	.3	3100	19.9	8.7	10.2	112	105.	28
			1.2	3600	19.5	8.7	9.8	107	70.	--
MAY 28, 75	1145	2	.3	7000	27.0	--	7.1	90	120.	18
			1.5	7000	26.9	--	6.6	84	150.	--
AUG 26, 75	1230	2	.3	6500	27.2	8.3	7.1	90	70.	30
			1.5	7000	27.2	8.2	6.6	84	100.	--
OCT 16, 74	1745	4	.3	8000	21.2	8.3	8.4	95	45.	29
			1.5	11000	20.4	8.0	6.9	78	65.	--
OCT 17, 74	1000	4	.3	8500	19.0	8.4	7.7	85	40.	34
			.9	8500	18.9	8.3	7.9	87	30.	--
			1.2	17000	20.1	8.0	5.8	67	30.	--
			1.7	19000	20.2	8.1	5.5	63	40.	--
JAN 28, 75	1410	4	.3	1500	20.2	8.9	12.2	133	145.	22
			.9	1700	20.1	8.9	12.2	133	--	--
			1.5	2700	19.2	8.8	8.7	94	120.	--
APR 15, 75	1520	4	.3	14000	21.6	--	12.4	146	35.	48
			1.2	14000	21.9	--	11.8	139	45.	--
MAY 28, 75	1200	4	.3	4300	27.0	--	7.4	93	100.	18
			2.1	4500	27.0	--	7.4	93	110.	--
AUG 26, 75	1215	4	.3	9800	27.2	8.3	6.8	86	70.	23
			1.8	11000	27.1	8.3	6.6	84	125.	--
AUG 26, 75	1205	5	.3	14000	27.2	8.3	6.8	88	40.	36
			1.5	15000	27.1	8.3	6.4	84	35.	--
					LINE 274					
OCT 17, 74	1130	1	.3	9400	19.7	8.3	7.6	84	35.	33
			1.5	17000	19.7	8.1	6.7	76	35.	--
			3.7	27000	20.4	7.9	6.4	77	20.	--
JAN 28, 75	1255	1	.3	11000	20.4	8.6	8.0	91	40.	39
			1.5	11000	19.9	8.6	7.8	88	25.	--
			3.0	11000	19.7	8.6	8.1	90	30.	--
APR 15, 75	1230	1	.3	28000	21.7	8.2	8.3	104	--	40
			1.5	30000	20.7	8.0	6.6	81	--	--
			3.4	35000	21.2	8.1	6.8	87	--	--
MAY 28, 75	0930	1	.3	10000	26.0	--	7.1	89	20.	35
			1.5	10000	26.1	--	7.0	88	10.	--
			3.4	10000	26.0	--	6.9	86	10.	--

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
				LINE 274 CONTINUED						
AUG 26, 75	1130	1	.3	7500	27.0	8.5	7.3	92	105.	17
			1.2	9400	27.0	8.5	6.9	87	150.	--
OCT 17, 74	1055	2	.3	6100	19.2	8.3	10.0	109	20.	18
			.9	11000	19.8	7.9	6.4	72	20.	--
			1.4	15000	20.8	7.4	2.5	29	10.	--
JAN 28, 75	1240	2	.3	8400	19.4	8.8	9.6	107	60.	37
			1.1	8400	19.2	8.8	9.1	100	40.	--
APR 15, 75	1235	2	.3	20000	20.9	8.4	11.7	139	--	59
			1.2	22000	20.6	8.4	11.0	131	--	--
			1.5	29000	20.4	8.1	7.7	94	--	--
MAY 28, 75	1120	2	.3	8500	26.7	--	6.3	80	90.	21
			1.2	8500	26.0	--	6.3	79	80.	--
AUG 26, 75	1145	2	.3	5500	27.3	8.6	7.0	89	40.	22
			2.4	5300	27.2	8.6	7.0	89	60.	--
OCT 17, 74	1040	3	.3	10000	19.3	8.3	8.3	92	20.	47
			.9	12000	19.4	8.2	8.3	93	20.	--
			1.2	14000	19.7	8.1	8.8	99	20.	--
			1.5	22000	20.5	7.9	6.0	71	20.	--
			2.7	25000	20.6	7.9	5.8	70	35.	--
JAN 28, 75	1230	3	.3	4200	18.9	8.9	12.0	129	105.	25
			.9	4300	18.8	8.9	11.4	123	70.	--
			1.8	5700	18.1	8.8	8.8	95	110.	--
APR 15, 75	1435	3	.3	26000	21.1	--	11.8	144	105.	75
			1.8	24000	21.4	--	8.6	104	110.	--
MAY 28, 75	1110	3	.3	5000	26.2	--	7.6	94	110.	22
			1.8	5000	26.2	--	7.4	91	120.	--
AUG 26, 75	1155	3	.3	7500	27.3	8.5	6.9	87	90.	20
			2.4	7500	27.2	8.4	6.3	80	160.	--
OCT 17, 74	1025	5	.3	13000	19.4	8.2	9.6	108	20.	50
			.9	15000	19.7	8.2	9.3	106	20.	--
			1.5	18000	20.1	8.0	8.1	93	20.	--
			2.4	19000	20.0	8.0	6.1	70	40.	--
JAN 28, 75	1210	5	.3	8500	18.9	8.9	11.2	123	30.	54
			.9	8800	18.8	8.9	11.2	123	40.	--
			1.2	10000	18.8	8.8	9.5	104	40.	--
			1.5	10000	18.9	8.7	9.1	100	30.	--
APR 15, 75	1450	5	.3	21000	21.4	--	12.1	146	40.	58
			1.5	30000	20.8	--	8.4	105	90.	--
			3.0	36000	20.2	--	3.6	45	--	--
			4.9	36000	20.5	--	4.3	54	180.	--
MAY 28, 75	1100	5	.3	6000	26.1	--	7.2	90	120.	20
			1.5	5000	26.1	--	7.3	90	100.	--
				LINE 287						
OCT 17, 74	1145	2	.3	14000	20.1	8.1	7.5	85	30.	46
			.9	15000	20.0	8.1	7.4	85	20.	--
			1.5	27000	20.7	7.9	6.0	73	165.	--
JAN 28, 75	1055	2	.3	12000	19.2	8.6	8.6	96	40.	39
			.9	12000	19.3	8.6	8.9	100	30.	--
APR 15, 75	0935	2	.3	22000	19.2	8.3	9.2	106	--	76
			.6	30000	19.7	8.2	7.9	95	--	--

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 287 CONTINUED						
APR 15, 75	0935	2	.9	34000	19.7	8.1	7.6	93	--	--
MAY 28, 75	0950	2	.3	10000	26.8	--	7.0	89	60.	27
			.9	10000	26.9	--	6.7	85	70.	--
AUG 26, 75	1225	2	.3	6500	26.1	8.5	8.2	103	120.	29
			1.2	6500	26.0	8.5	8.2	103	100.	--
OCT 17, 74	1200	4	.3	13000	20.5	8.2	8.1	93	20.	50
			.9	15000	19.9	8.1	7.8	90	20.	--
			2.0	28000	20.7	7.9	6.3	77	35.	--
JAN 28, 75	1110	4	.5	7000	18.3	8.9	9.3	100	65.	43
			1.5	6900	18.3	8.9	9.0	97	40.	--
APR 15, 75	0945	4	.3	29000	19.8	8.4	9.1	110	--	75
			.9	30000	19.9	8.3	8.5	104	--	--
			1.5	38000	20.2	8.2	7.3	92	--	--
MAY 28, 75	1000	4	.3	7000	26.1	--	7.4	93	80.	16
			1.5	7000	26.0	--	7.4	93	90.	--
AUG 26, 75	1240	4	.3	4500	26.9	8.5	9.1	112	90.	35
			1.5	9500	26.3	8.4	8.0	100	90.	--
OCT 17, 74	1215	6	.3	15000	20.0	8.1	7.6	87	20.	56
			1.8	25000	20.5	7.9	5.7	69	30.	--
JAN 28, 75	1125	6	.3	8800	18.4	8.9	10.3	112	20.	58
			1.8	9800	18.2	8.8	9.5	103	20.	--
APR 15, 75	0955	6	.3	34000	19.9	8.4	8.9	110	--	70
			1.2	34000	19.9	8.3	8.1	100	--	--
MAY 28, 75	1015	6	.3	6000	26.1	--	7.4	93	100.	21
			2.1	6000	26.1	--	7.2	90	80.	--
AUG 26, 75	1255	6	.3	6500	27.0	8.4	8.4	106	115.	42
			2.1	15000	26.8	8.3	6.9	90	120.	--
OCT 16, 74	1735	8	.3	18000	21.0	8.5	11.0	129	40.	53
			1.5	18000	21.0	8.5	11.1	131	45.	--
OCT 17, 74	1225	8	.3	14000	20.8	8.1	7.6	86	10.	71
			1.5	26000	21.1	8.0	6.2	76	10.	--
			3.0	26000	21.1	8.0	6.2	76	20.	--
			4.6	26000	21.1	7.9	6.2	76	30.	--
JAN 28, 75	1140	8	.3	13000	18.7	8.6	8.5	94	50.	49
			1.5	13000	18.7	8.6	8.5	94	50.	--
APR 15, 75	1005	8	.3	18000	20.3	8.5	--	--	--	39
			1.8	26000	19.8	8.3	7.9	94	--	--
MAY 28, 75	1040	8	.3	5800	26.2	--	7.6	95	150.	17
			1.5	6000	26.2	--	7.4	93	180.	--
AUG 26, 75	1400	8	.3	14000	27.0	8.4	9.5	122	40.	--
			1.8	22000	26.2	8.3	8.2	108	40.	--
				LINE 291						
OCT 16, 74	1710	2	.3	18000	21.2	8.5	11.1	131	20.	48
			1.8	22000	20.5	8.4	9.8	117	85.	--
JAN 28, 75	1540	2	.3	17000	20.0	8.5	10.6	122	5.	86
			1.8	16000	20.5	8.5	10.4	121	5.	--
APR 15, 75	1335	2	.3	35000	21.1	--	7.8	100	40.	68

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 291 CONTINUED						
APR 15, 75	1335	2	1.8	35000	21.1	--	8.2	105	80.	--
MAY 28, 75	1015	2	.3	22000	27.0	8.3	7.6	101	60.	46
			1.7	21000	27.0	8.3	7.3	97	50.	--
AUG 26, 75	1320	2	.3	18000	27.5	8.4	9.1	120	60.	63
			1.8	21000	27.0	8.3	7.8	104	70.	--
OCT 16, 74	1700	4	.3	16000	20.8	8.5	11.8	137	240.	46
			1.5	18000	20.2	8.4	10.3	118	100.	--
JAN 28, 75	1530	4	.3	13000	20.5	8.6	10.5	121	20.	53
			1.8	13000	22.0	8.5	10.0	118	60.	--
APR 15, 75	1325	4	.3	30000	21.5	--	9.3	116	75.	66
			1.8	31000	22.0	--	6.3	80	65.	--
MAY 28, 75	1000	4	.3	8000	27.4	6.7	9.4	121	75.	36
			1.5	9000	27.4	8.6	9.6	123	75.	--
AUG 26, 75	1305	4	.3	18000	27.0	8.3	8.6	113	85.	48
			1.8	19000	26.8	8.3	7.9	104	80.	--
				LINE 294						
APR 15, 75	1345	1	.3	33000	21.9	--	9.0	115	15.	66
			1.8	33000	22.0	--	8.6	110	100.	--
MAY 28, 75	1025	1	.3	17000	26.9	8.3	7.6	100	45.	41
			1.8	17000	26.9	8.3	7.3	96	45.	--
AUG 26, 75	1330	1	.3	22000	28.0	8.4	9.1	125	90.	50
			1.8	24000	27.6	8.3	7.5	103	80.	--
OCT 16, 74	1720	2	.3	20000	21.5	8.5	11.1	134	15.	51
			1.8	27000	20.5	8.4	9.7	118	15.	--
OCT 17, 74	1300	2	.3	26000	21.6	7.9	7.0	86	10.	89
			2.0	28000	20.7	7.9	6.9	84	35.	--
JAN 28, 75	1555	2	.3	15000	20.0	8.5	10.7	123	10.	69
			1.8	17000	20.8	8.5	11.3	133	10.	--
APR 15, 75	1350	2	.3	29000	21.5	--	9.9	124	20.	64
			1.8	29000	21.5	--	9.1	114	20.	--
MAY 28, 75	1035	2	.3	13000	27.4	8.4	8.8	114	30.	53
			1.8	13000	27.3	8.4	8.4	108	50.	--
AUG 26, 75	1340	2	.3	21000	27.9	8.4	8.8	121	35.	40
			1.8	22000	27.6	8.3	7.2	99	30.	--
OCT 16, 74	1740	4	.3	21000	20.9	8.4	9.6	114	50.	30
			1.8	21000	20.7	8.5	9.8	115	105.	--
			3.7	21000	20.7	8.4	10.8	127	100.	--
JAN 28, 75	1610	4	.3	20000	22.0	8.4	9.8	120	30.	44
			1.5	20000	21.1	8.4	10.2	121	30.	--
			3.0	20000	21.0	8.3	10.0	119	5.	--
			4.0	19000	21.0	8.3	10.5	124	10.	--
APR 15, 75	1310	4	.3	21000	21.0	--	9.0	107	105.	31
			2.1	23000	21.0	--	7.5	90	130.	--
			4.0	27000	21.4	--	6.1	75	175.	--
MAY 28, 75	1045	4	.3	10000	27.0	8.5	9.1	115	60.	36
			1.5	10000	26.9	8.5	9.1	115	70.	--
			3.7	10000	27.0	8.5	9.1	115	105.	--

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
				LINE 294 CONTINUED						
AUG 26, 75	1415	4	.3	25000	27.1	8.4	8.2	111	30.	58
			1.5	27000	27.1	8.3	8.0	110	30.	--
			3.7	35000	26.3	8.2	7.2	100	45.	--
				LINE 302						
OCT 16, 74	1640	2	.3	25000	20.9	8.5	10.4	127	15.	36
			1.5	26000	20.7	8.5	10.4	125	0.	--
JAN 28, 75	1400	2	.5	21000	20.0	8.5	8.4	98	0.	130
			1.8	26000	21.0	8.5	9.8	120	5.	--
APR 15, 75	1255	2	.3	40000	21.5	--	8.2	108	20.	56
			1.5	40000	22.1	--	8.2	108	20.	--
MAY 27, 75	1630	2	.3	24000	28.8	8.3	10.6	147	20.	53
			1.5	24000	28.7	8.3	10.1	140	85.	--
AUG 26, 75	1135	2	.3	13000	25.2	8.4	7.5	94	110.	28
			1.8	13000	24.9	8.5	7.4	93	100.	--
OCT 16, 74	1650	4	.3	18000	20.9	8.5	11.4	124	5.	48
			1.5	24000	20.2	8.5	11.1	131	50.	--
JAN 28, 75	1410	4	.5	11000	20.0	8.8	11.7	131	10.	71
			1.8	21000	20.5	8.5	9.6	113	10.	--
APR 15, 75	1300	4	.3	38000	21.5	--	8.2	106	20.	60
			1.8	38000	21.9	--	7.8	101	20.	--
MAY 27, 75	1645	4	.3	17000	29.2	8.5	11.7	160	--	58
			1.5	17000	29.2	8.6	11.5	158	20.	--
AUG 26, 75	1145	4	.3	9500	25.3	8.5	7.9	96	85.	35
			1.8	18000	25.0	8.4	7.0	89	85.	--
				LINE 307						
OCT 16, 74	1630	1	.3	33000	21.2	8.5	10.0	127	0.	71
			1.5	33000	21.1	8.5	10.4	132	0.	--
JAN 28, 75	1340	1	.5	26000	20.2	8.3	9.4	112	0.	161
			1.5	22000	21.1	8.2	9.1	110	0.	--
APR 15, 75	1230	1	.3	40000	21.2	--	8.0	104	20.	78
			1.8	38000	21.2	--	7.7	100	10.	--
MAY 27, 75	1620	1	.3	25000	28.8	8.3	10.3	145	25.	74
			1.8	25000	28.8	8.2	10.3	145	30.	--
AUG 26, 75	1120	1	.3	15000	25.2	8.4	7.4	93	60.	37
			1.8	15000	25.2	8.4	7.8	98	45.	--
OCT 16, 74	1620	3	.3	34000	20.9	8.5	10.2	129	0.	61
			1.5	38000	20.5	8.5	10.4	133	0.	--
JAN 28, 75	1330	3	.5	22000	21.1	8.3	9.1	110	5.	113
			1.7	21000	21.2	8.3	9.2	110	20.	--
APR 15, 75	1225	3	.3	38000	21.0	--	7.9	103	5.	93
			1.8	40000	21.0	--	8.0	104	10.	--
MAY 27, 75	1610	3	.3	25000	28.9	8.2	10.2	144	20.	61
			1.5	25000	28.9	8.1	10.2	144	25.	--
AUG 26, 75	1110	3	.3	17000	25.3	8.3	6.9	87	60.	38
			1.8	17000	25.2	8.3	7.2	91	60.	--

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 347 CONTINUED						
JAN 28, 75	1320	5	.5	21000	21.1	8.4	9.5	113	45.	71
			1.7	21000	21.5	8.5	9.1	110	70.	--
APR 15, 75	1215	5	.3	38000	21.0	--	8.1	105	25.	92
			1.8	38000	21.4	--	8.2	106	130.	--
MAY 27, 75	1600	5	.3	22000	29.2	8.3	10.3	143	40.	86
			1.5	22000	29.2	8.3	7.7	117	30.	--
AUG 26, 75	1100	5	.3	18000	25.2	8.3	7.5	95	45.	34
			1.7	18000	25.0	8.2	7.6	96	80.	--
JAN 28, 75	1325	7	.3	14000	20.4	8.6	8.5	98	--	47
			2.1	14000	20.4	8.6	7.4	85	30.	--
			4.3	14000	20.5	8.6	7.7	89	35.	--
APR 15, 75	0925	7	.3	35000	20.1	8.0	7.1	89	--	62
			2.1	38000	19.8	8.0	7.3	92	--	--
			4.3	38000	19.9	7.9	7.4	94	--	--
MAY 27, 75	1700	7	.3	17000	28.4	8.3	10.5	142	50.	41
			1.5	18000	28.1	8.3	7.9	107	30.	--
			3.7	18000	27.8	8.2	7.1	96	50.	--
MAY 28, 75	0940	7	.3	14000	26.9	8.6	8.5	109	90.	41
			1.5	14000	26.9	8.6	8.6	110	110.	--
			3.4	14000	27.1	8.5	8.3	106	120.	--
AUG 26, 75	1210	7	.3	19000	26.0	8.4	7.2	94	100.	39
			1.5	18000	26.0	8.4	7.0	91	95.	--
			3.0	33000	25.8	8.3	6.0	83	80.	--
				LINE 311						
OCT 17, 74	1320	1	.3	24000	20.9	8.0	9.6	116	20.	41
			1.2	24000	20.9	8.0	9.6	116	20.	--
APR 16, 75	1030	1	.3	26000	21.8	--	7.5	93	50.	59
			.9	26000	21.9	--	7.3	90	50.	--
MAY 28, 75	1125	1	.3	26000	27.6	8.2	8.8	121	135.	25
			.9	26000	27.6	8.2	8.9	122	260.	--
AUG 26, 75	1450	1	.3	39000	26.6	8.2	8.1	116	60.	42
			.9	39000	26.1	8.2	8.5	120	50.	--
OCT 17, 74	1420	3	.3	26000	21.3	8.0	7.4	90	10.	74
			.9	26000	20.2	8.0	7.5	89	--	--
			1.4	26000	22.2	8.2	8.5	105	70.	--
APR 16, 75	1025	3	.3	26000	22.0	--	8.3	102	45.	79
			.9	26000	22.0	--	8.1	100	40.	--
MAY 28, 75	1120	3	.3	23000	27.6	8.2	8.9	120	100.	30
			1.2	22000	27.4	8.2	9.0	122	130.	--
OCT 17, 74	1430	5	.3	25000	21.3	8.0	7.2	88	10.	80
			1.7	32000	21.7	8.1	7.3	92	45.	--
APR 16, 75	1105	5	.3	29000	22.0	--	8.4	105	40.	51
			.9	29000	22.0	--	8.4	105	40.	--
			1.8	29000	22.4	--	8.3	104	40.	--
MAY 28, 75	1205	5	.3	16000	27.2	8.2	9.2	121	140.	38
			1.5	16000	27.2	8.2	9.1	118	155.	--
			2.7	16000	27.2	8.2	8.9	116	230.	--
AUG 26, 75	1530	5	.3	36000	27.3	8.3	8.1	114	70.	33

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 311 CONTINUED						
AUG 26, 75	1530	5	1.8	36000	27.2	8.3	8.1	114	65.	--
						LINE 314				
OCT 17, 74	1330	1	.3	26000	20.8	8.0	7.5	91	10.	100
			1.2	26000	21.3	8.0	7.6	93	30.	--
APR 16, 75	1045	1	.3	28000	22.0	--	8.4	105	25.	91
			.9	27000	22.0	--	7.7	96	15.	--
MAY 28, 75	1135	1	.3	34000	27.3	8.2	8.3	117	60.	36
			1.1	34000	27.2	8.2	8.0	113	180.	--
AUG 26, 75	1500	1	.3	41000	27.4	8.3	8.2	119	25.	58
			1.2	42000	27.0	8.2	8.2	121	35.	--
OCT 17, 74	1340	3	.3	26000	20.5	8.0	7.5	90	10.	77
			1.5	38000	21.7	8.0	7.1	92	100.	--
APR 16, 75	1050	3	.3	29000	22.0	--	8.4	105	--	82
			.9	28000	22.0	--	8.3	104	40.	--
MAY 28, 75	1145	3	.3	33000	27.4	8.2	8.4	120	40.	48
			1.2	33000	27.3	8.2	8.5	120	55.	--
AUG 26, 75	1505	3	.3	39000	27.7	8.3	8.3	122	20.	69
			1.2	49000	27.2	8.2	7.1	108	50.	--
OCT 17, 74	1405	4	.3	25000	20.7	8.1	7.5	90	10.	89
			1.4	34000	21.4	8.1	7.3	92	30.	--
APR 16, 75	1055	4	.3	28000	22.0	--	8.6	108	25.	67
			.9	28000	22.0	--	8.5	106	25.	--
MAY 28, 75	1150	4	.3	32000	27.3	8.3	8.6	119	35.	61
			1.2	32000	26.9	8.2	7.9	110	50.	--
AUG 26, 75	1515	4	.3	38000	27.6	8.3	8.2	121	10.	62
			1.2	41000	27.6	8.2	7.5	110	15.	--
						LINE 330				
OCT 16, 74	1610	1	.3	38000	20.8	8.3	9.5	123	0.	94
			1.8	40000	20.7	8.3	9.7	124	0.	--
OCT 16, 74	1600	2	.3	37000	20.7	8.4	10.0	127	0.	97
			1.8	38000	20.8	8.4	10.2	132	5.	--
OCT 16, 74	1550	3	.3	36000	21.3	8.4	10.3	132	0.	94
			1.8	39000	20.5	8.5	10.4	133	0.	--
						LINE 333				
JAN 28, 75	1220	1	.5	35000	19.1	8.1	9.2	112	0.	231
			1.5	35000	19.0	8.1	9.2	112	0.	--
			2.1	32000	19.7	8.0	8.7	105	0.	--
MAY 27, 75	1545	1	.3	29000	28.9	8.2	10.8	154	15.	99
			1.8	29000	28.7	8.2	10.9	156	30.	--
AUG 26, 75	1045	1	.3	25000	26.2	8.4	6.3	84	20.	69
			2.1	27000	26.1	8.4	6.3	85	25.	--
JAN 28, 75	1200	2	.5	32000	19.2	8.2	8.5	101	0.	208
			1.5	34000	19.1	8.2	8.5	102	0.	--
			2.1	32000	19.2	8.0	7.0	83	10.	--

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 333 CONTINUED						
MAY 27, 75	1530	2	.3	26000	28.9	8.2	10.8	152	20.	99
			1.8	26000	28.6	8.2	11.2	158	30.	--
AUG 26, 75	1035	2	.3	24000	26.2	8.4	6.4	84	20.	62
			2.1	27000	26.1	8.5	6.0	81	45.	--
JAN 28, 75	1150	3	.5	27000	19.9	8.2	8.3	100	5.	132
			1.8	24000	20.0	8.2	8.5	100	10.	--
APR 15, 75	1155	3	.3	34000	21.1	--	8.5	108	30.	58
			1.8	38000	21.8	--	7.7	100	50.	--
MAY 27, 75	1520	3	.3	25000	29.1	8.3	10.5	148	5.	102
			1.5	25000	29.1	8.3	11.1	156	10.	--
AUG 26, 75	1025	3	.3	24000	26.0	8.5	6.8	89	50.	46
			2.0	27000	26.0	8.5	6.5	88	40.	--
				LINE 342						
OCT 16, 74	1525	1	.3	40000	22.0	8.5	9.8	129	5.	76
			2.1	40000	21.0	8.5	9.9	129	5.	--
JAN 28, 75	1105	1	.3	31000	19.1	8.1	8.6	102	5.	262
			1.5	36000	19.0	8.0	8.3	101	5.	--
			1.5	35000	19.0	8.0	8.2	100	10.	--
APR 15, 75	1125	1	.3	38000	20.8	--	8.2	106	0.	122
			2.4	38000	21.5	--	8.2	106	0.	--
MAY 27, 75	1435	1	.3	30000	28.5	8.2	9.6	137	10.	160
			1.5	34000	28.2	8.2	9.8	142	10.	--
			2.1	34000	28.1	8.2	8.0	116	20.	--
AUG 26, 75	0950	1	.3	35000	26.9	8.4	6.1	86	10.	93
			2.1	36000	27.0	8.4	5.9	83	20.	--
OCT 16, 74	1530	2	.3	40000	22.0	8.5	9.8	129	5.	74
			2.1	40000	21.5	8.5	9.4	124	5.	--
JAN 28, 75	1120	2	.5	22000	19.1	8.2	9.5	109	5.	178
			1.5	24000	19.5	8.1	9.7	113	0.	--
			2.3	26000	19.6	8.1	8.4	99	40.	--
APR 15, 75	1130	2	.3	38000	20.7	--	7.8	100	15.	93
			2.7	38000	21.0	--	7.8	101	25.	--
MAY 27, 75	1455	2	.3	23000	28.6	8.2	8.6	119	0.	104
			1.5	24000	28.6	8.2	8.6	119	10.	--
			2.1	25000	28.6	8.2	8.5	120	10.	--
AUG 26, 75	1000	2	.3	33000	26.6	8.4	6.2	87	10.	95
			1.5	35000	26.8	8.4	5.8	82	10.	--
			2.6	35000	26.5	8.4	5.9	83	10.	--
OCT 16, 74	1540	3	.3	40000	21.7	8.5	9.8	129	0.	124
			1.8	40000	21.5	8.5	10.5	138	10.	--
JAN 28, 75	1130	3	.5	27000	19.8	8.2	8.9	117	10.	128
			1.8	27000	20.0	8.3	9.1	110	50.	--
APR 15, 75	1140	3	.3	38000	20.9	--	8.2	106	15.	86
			1.8	36000	21.2	--	8.2	106	0.	--
MAY 27, 75	1510	3	.3	28000	29.0	8.2	9.4	134	--	132
			1.5	29000	29.0	8.2	9.2	131	0.	--
AUG 26, 75	1010	3	.3	22000	26.5	8.4	6.5	86	35.	56

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
					LINE 342 CONTINUED					
AUG 26, 75	1010	3	2.1	27000	26.2	8.4	6.3	85	30.	--
						LINE 354				
OCT 16, 74	1510	1	.3	40000	21.5	8.5	9.8	129	5.	91
			2.1	40000	20.8	8.4	9.9	129	0.	--
JAN 28, 75	1045	1	.3	34000	19.0	8.0	8.2	99	5.	208
			2.0	32000	19.5	8.1	8.8	106	5.	--
APR 15, 75	1115	1	.3	40000	21.2	--	8.4	109	5.	120
			2.4	40000	20.5	--	7.8	100	5.	--
MAY 27, 75	1420	1	.3	34000	28.5	8.2	8.8	129	5.	112
			1.8	34000	28.4	8.2	8.4	122	0.	--
AUG 26, 75	0935	1	.3	38000	27.1	8.3	5.3	76	20.	102
			2.1	41000	26.8	8.2	3.8	55	25.	--
OCT 16, 74	1500	3	.3	41000	22.5	8.5	8.9	119	25.	76
			1.5	42000	21.8	8.5	9.1	117	30.	--
JAN 28, 75	1025	3	.3	35000	20.0	8.1	7.8	98	10.	100
			.9	32000	20.0	8.1	8.3	101	10.	--
APR 15, 75	1100	3	.3	40000	20.1	--	8.2	104	5.	89
			1.8	40000	20.2	--	8.1	103	0.	--
MAY 27, 75	1405	3	.3	28000	28.4	8.2	7.6	107	10.	86
			1.8	28000	28.2	8.2	7.3	103	10.	--
AUG 26, 75	0925	3	.3	39000	27.1	8.4	5.4	78	15.	121
			1.8	47000	26.9	8.2	4.3	64	30.	--
OCT 16, 74	1450	5	.3	40000	21.1	8.5	8.7	113	100.	99
			1.8	40000	21.0	8.5	8.6	112	60.	--
JAN 28, 75	1000	5	.5	38000	19.0	8.1	7.8	96	0.	181
			1.5	45000	19.0	8.0	7.7	97	0.	--
			2.6	47000	19.3	8.0	7.3	95	35.	--
APR 15, 75	1050	5	.3	40000	20.1	--	8.5	108	0.	120
			1.5	40000	20.1	--	8.4	106	0.	--
			2.7	38000	21.0	--	8.2	106	25.	--
MAY 27, 75	1355	5	.3	33000	29.0	8.4	8.2	121	5.	--
			1.5	34000	28.6	8.4	7.4	109	10.	--
			2.4	34000	28.7	8.2	7.4	109	40.	--
AUG 26, 75	0915	5	.3	41000	27.2	8.3	5.1	75	20.	97
			1.5	44000	27.2	8.3	4.4	66	25.	--
			2.7	44000	27.2	8.3	4.2	63	20.	--

TABLE 6B--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 80						
OCT 16, 74	1425	2	.3	--	.00	.00	.00	--	.08	3.8	5	6.8
			3.4	--	.00	.05	.00	--	.17	2.1	0	7.4
APR 15, 75	1705	2	.3	--	.61	.00	.01	--	.15	1.5	0	3.7
			3.7	--	.04	.13	.01	--	.13	1.4	0	4.5
MAY 27, 75	1445	2	.3	--	.04	.02	.01	--	.19	3.1	--	--
			2.7	--	.04	.06	.01	--	.45	3.3	--	--
AUG 26, 75	1625	2	.3	--	.25	.00	.00	--	.12	2.3	--	--
			3.7	--	.26	.00	.00	--	.15	2.0	0	--
						LINE 145						
JAN 28, 75	1640	2	.3	12.0	.62	.01	.00	--	.51	1.0	0	16.0
						LINE 153						
APR 15, 75	1430	2	.3	13.0	2.40	.01	.00	--	.68	1.3	43	--
MAY 27, 75	1620	2	.3	14.0	1.90	.01	.01	--	.70	1.4	--	--
						LINE 170						
OCT 16, 74	1515	2	.3	15.0	1.50	.00	.00	--	.49	1.1	0	38.0
			3.0	--	1.60	.00	.00	--	.48	1.5	0	5.6
AUG 26, 75	1555	2	.3	15.0	1.50	.00	.00	--	.37	.9	0	--
						LINE 200						
OCT 16, 74	1545	2	.3	--	1.50	.02	.00	--	.45	.5	0	3.4
JAN 28, 75	1755	2	.3	--	.59	.03	.00	--	.69	1.3	2	10.0
APR 15, 75	1530	2	.3	--	2.60	.02	.01	--	.58	.9	0	4.1
MAY 27, 75	1510	2	.3	--	.27	.01	.01	--	.13	1.7	--	--
AUG 26, 75	1530	2	.3	--	1.40	.00	.00	--	.40	1.2	0	--
						LINE 243						
OCT 16, 74	1640	5	.3	--	.58	.00	.00	--	.34	1.8	0	3.2
JAN 28, 75	1520	5	.3	--	.98	.00	.01	--	.50	1.2	0	11.0
APR 15, 75	1600	5	.3	--	1.20	.01	.01	--	.38	1.1	0	10.0
			1.2	--	1.20	.01	.01	--	.36	1.0	0	10.0
MAY 28, 75	1305	5	.3	--	1.70	.00	.01	--	.37	1.2	1	6.4
AUG 26, 75	1340	5	.3	15.0	.80	.00	.00	--	.20	1.7	0	--
						LINE 254						
OCT 16, 74	1350	2	.3	--	.01	.00	.00	--	.18	2.6	0	11.0
			1.5	--	.00	.07	.00	--	.21	2.3	--	--
JAN 28, 75	1925	2	.3	5.5	.00	.00	.00	--	.18	2.7	0	11.0

TABLE 68--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
					LINE 254 CONTINUED							
APR 15, 75	1700	2	.3	--	.01	.01	.00	--	.07	1.3	0	3.6
			1.2	--	.02	.03	.00	--	.28	1.8	0	9.1
MAY 28, 75	0915	2	.3	--	.01	.01	.00	--	.16	2.2	1	40.0
AUG 26, 75	1010	2	.3	--	.00	.00	.00	--	.16	1.4	0	--
					LINE 264							
OCT 16, 74	1745	4	.3	13.0	.00	.00	.00	--	.19	2.6	0	6.4
			1.5	--	.00	.00	.00	--	.19	2.2	0	5.8
JAN 28, 75	1410	4	.3	--	.41	.01	.01	--	.41	2.9	--	--
APR 15, 75	1520	4	.3	7.1	.31	.00	.00	--	.17	1.7	2	3.6
			1.2	7.2	.26	.00	.00	--	.17	1.3	0	5.3
MAY 28, 75	1200	4	.3	9.8	.27	.00	.01	--	.29	2.1	--	--
AUG 26, 75	1215	4	.3	12.0	.00	.00	.00	--	.17	1.4	0	--
					LINE 274							
OCT 17, 74	1055	2	.3	--	.45	.00	.00	--	.24	2.1	0	--
			1.4	--	.08	.13	.00	--	.19	1.2	0	6.4
JAN 28, 75	1240	2	.3	--	.02	.04	.01	--	.17	2.7	--	--
APR 15, 75	1235	2	.3	--	.08	.00	.01	--	.12	1.3	0	12.0
			1.5	--	.11	.02	.00	--	.10	1.6	0	4.6
MAY 28, 75	1120	2	.3	--	.03	.02	.00	--	.18	1.7	--	--
AUG 26, 75	1145	2	.3	--	.00	.00	.00	--	.17	1.4	0	--
					LINE 287							
OCT 17, 74	1225	8	.3	--	.00	.00	.00	--	.16	1.9	0	7.2
			4.6	--	.00	.00	.00	--	.12	1.7	0	3.8
JAN 28, 75	1140	8	.3	--	.00	.01	.01	--	.11	1.4	--	--
APR 15, 75	1005	8	.3	--	.06	.06	.00	--	.15	1.9	0	5.9
			1.8	--	.06	.02	.00	--	.10	1.5	0	2.6
MAY 28, 75	1040	8	.3	--	.00	.00	.01	--	.20	3.0	--	--
AUG 26, 75	1400	8	.3	11.0	.00	.00	.00	--	.15	1.6	0	--
					LINE 291							
OCT 16, 74	1710	2	.3	--	--	--	--	--	--	1.7	--	--
			1.8	--	--	--	--	--	--	1.4	--	--
					LINE 294							
OCT 16, 74	1720	2	.3	--	.00	.00	.00	--	.11	--	0	4.2
			1.8	--	.00	.00	.00	--	.12	--	0	4.6
JAN 28, 75	1555	2	.3	--	.00	.00	.00	--	.09	1.9	--	--
APR 15, 75	1350	2	.3	--	.00	.00	.00	--	.07	1.3	0	6.0
			1.8	--	.00	.01	.00	--	.10	1.3	0	8.0
MAY 28, 75	1035	2	.3	--	.00	.00	.00	--	.15	2.2	--	--

TABLE 6B--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 294 CONTINUED						
AUG 26, 75	1340	2	.3	10.0	.01	.01	.00	--	.15	1.3	0	--
						LINE 307						
OCT 16, 74	1620	3	.3	--	.00	.00	.00	--	.08	1.7	0	4.2
			1.5	--	--	--	--	--	--	--	--	5.0
JAN 28, 75	1330	3	.5	--	.00	.01	.01	--	.13	1.8	--	--
			1.7	--	.00	.01	.01	--	.12	1.1	--	--
APR 15, 75	1225	3	.3	--	.01	.05	.00	--	.04	.7	0	2.3
			1.8	--	.01	.05	.00	--	.04	.7	1	3.8
MAY 27, 75	1610	3	.3	--	.01	.00	.00	--	.09	1.9	--	--
AUG 26, 75	1110	3	.3	--	.02	.00	.00	--	.16	1.1	0	--
						LINE 311						
OCT 17, 74	1430	5	.3	6.9	.00	.01	.00	--	.10	1.6	0	4.0
			1.7	--	.00	.00	.00	--	.11	2.4	--	--
APR 16, 75	1105	5	.3	4.2	.03	.01	.00	--	.07	.8	0	4.9
MAY 28, 75	1205	5	.3	6.3	.00	.01	.01	--	.16	2.3	--	--
AUG 26, 75	1530	5	.3	6.5	.01	.00	.00	--	.16	1.2	0	--
						LINE 314						
OCT 17, 74	1340	3	.3	--	.00	.00	.01	--	.09	2.0	0	4.2
			1.5	--	.00	.00	.00	--	.12	2.9	--	--
APR 16, 75	1050	3	.3	--	.00	.01	.01	--	.05	.9	1	7.5
MAY 28, 75	1145	3	.3	--	.00	.01	.01	--	.10	2.1	--	--
AUG 26, 75	1505	3	.3	--	.00	.00	.01	--	.09	1.0	0	--
						LINE 330						
OCT 16, 74	1600	2	.3	--	--	--	--	--	--	--	26	3.8
			1.8	--	.00	.01	.01	--	.05	--	--	3.8
						LINE 333						
JAN 28, 75	1200	2	.5	--	.00	.00	.00	--	.06	1.1	2	11.0
			2.1	--	.00	.02	.00	--	.06	.8	2	3.6
MAY 27, 75	1530	2	.3	4.0	.00	.01	.00	--	.07	1.6	10	4.5
			1.8	4.2	.00	.01	.01	--	.13	1.6	13	4.6
AUG 26, 75	1035	2	.3	--	.00	.01	.00	--	.13	1.0	0	--
			2.1	--	.00	.00	.01	--	.13	.9	--	--
						LINE 354						
OCT 16, 74	1500	3	.3	.9	.00	.00	.01	--	.06	--	0	3.4
			1.5	--	--	--	--	--	--	1.3	--	3.4
JAN 28, 75	1025	3	.3	1.4	.00	.01	.00	--	.05	.8	3	9.5
			.9	1.3	.00	.00	.00	--	.06	.9	--	8.9
APR 15, 75	1100	3	.3	.3	.00	.00	.00	--	.02	1.2	4	5.1

TABLE 68--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
LINE 359 CONTINUED												
APR 15, 75	1100	3	1.8	.5	.00	.01	.00	--	.03	1.1	2	3.3
MAY 27, 75	1405	3	.3	.6	.00	.00	.01	--	.05	1.0	18	3.8
			1.8	.6	.01	.00	.00	--	.06	1.2	12	26.0
AUG 26, 75	0925	3	.3	5.6	.00	.01	.00	--	.09	1.0	1	--
			1.8	--	.00	.00	.01	--	.07	.9	--	--

TABLE 6C--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
						LINE 80						
OCT 16, 74	1425	2	.3	6010	--	--	--	--	--	--	--	--
			3.4	21800	--	--	--	--	--	--	--	--
APR 15, 75	1705	2	.3	6840	--	--	--	--	--	--	--	--
			3.7	33100	--	--	--	--	--	--	--	--
MAY 27, 75	1445	2	.3	1750	--	--	--	--	--	--	--	--
			2.7	1800	--	--	--	--	--	--	--	--
AUG 26, 75	1625	2	.3	798	--	--	--	--	--	--	--	--
			3.7	802	--	--	--	--	--	--	--	--
						LINE 145						
JAN 28, 75	1640	2	.3	738	89.0	13.0	46	4.0	284	52	66	422
						LINE 153						
APR 15, 75	1430	2	.3	677	70.0	16.0	47	4.6	238	50	75	393
MAY 27, 75	1620	2	.3	559	60.0	9.9	34	5.2	180	47	46	305
						LINE 170						
OCT 16, 74	1515	2	.3	765	79.0	19.0	48	3.6	281	53	65	421
			3.0	749	--	--	--	--	--	--	--	--
AUG 26, 75	1555	2	.3	739	83.0	19.0	44	3.2	280	50	62	415
						LINE 200						
OCT 16, 74	1545	2	.3	749	--	--	--	--	--	--	--	--
JAN 28, 75	1755	2	.3	758	--	--	--	--	--	--	--	--
APR 15, 75	1530	2	.3	692	--	--	--	--	--	--	--	--
MAY 27, 75	1510	2	.3	544	--	--	--	--	--	--	--	--
AUG 26, 75	1530	2	.3	737	--	--	--	--	--	--	--	--
						LINE 243						
OCT 16, 74	1640	5	.3	2110	--	--	--	--	--	--	--	--
JAN 28, 75	1520	5	.3	759	--	--	--	--	--	--	--	--
APR 15, 75	1600	5	.3	3060	--	--	--	--	--	--	--	--
			1.2	3120	--	--	--	--	--	--	--	--
MAY 28, 75	1305	5	.3	663	--	--	--	--	--	--	--	--
AUG 26, 75	1340	5	.3	734	73.0	20.0	60	3.8	264	57	87	446
						LINE 254						
OCT 16, 74	1350	2	.3	7900	--	--	--	--	--	--	--	--
			1.5	19100	--	--	--	--	--	--	--	--
JAN 28, 75	1925	2	.3	10400	110.0	200.0	1800	68.0	215	450	3200	5940

TABLE 6C--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
						LINE 254 CONTINUED						
APR 15, 75	1700	2	.3	23400	--	--	--	--	--	--	--	--
			1.2	23800	--	--	--	--	--	--	--	--
MAY 28, 75	0915	2	.3	4150	--	--	--	--	--	--	--	--
AUG 26, 75	1010	2	.3	4500	--	--	--	--	--	--	--	--
						LINE 264						
OCT 16, 74	1745	4	.3	7950	95.0	180.0	1300	55.0	191	340	2300	4380
			1.5	11400	--	--	--	--	--	--	--	--
JAN 28, 75	1410	4	.3	1620	--	--	--	--	--	--	--	--
APR 15, 75	1520	4	.3	13400	140.0	280.0	2500	110.0	234	590	4400	8140
			1.2	13400	150.0	290.0	2400	110.0	233	500	4400	7970
MAY 28, 75	1200	4	.3	4340	74.0	91.0	720	34.0	174	200	1300	2520
AUG 26, 75	1215	4	.3	10200	130.0	180.0	1700	62.0	196	430	3000	5610
						LINE 274						
OCT 17, 74	1055	2	.3	6060	--	--	--	--	--	--	--	--
			1.4	14500	--	--	--	--	--	--	--	--
JAN 28, 75	1240	2	.3	8450	--	--	--	--	--	--	--	--
APR 15, 75	1235	2	.3	20000	--	--	--	--	--	--	--	--
			1.5	28300	--	--	--	--	--	--	--	--
MAY 28, 75	1120	2	.3	8520	--	--	--	--	--	--	--	--
AUG 26, 75	1145	2	.3	6000	--	--	--	--	--	--	--	--
						LINE 287						
OCT 17, 74	1225	8	.3	14300	--	--	--	--	--	--	--	--
			4.6	25900	--	--	--	--	--	--	--	--
JAN 28, 75	1140	8	.3	12800	--	--	--	--	--	--	--	--
APR 15, 75	1005	8	.3	17700	--	--	--	--	--	--	--	--
			1.8	26200	--	--	--	--	--	--	--	--
MAY 28, 75	1040	8	.3	5820	--	--	--	--	--	--	--	--
AUG 26, 75	1400	8	.3	14400	200.0	270.0	2600	120.0	190	590	4700	8590
						LINE 291						
OCT 16, 74	1710	2	.3	20900	--	--	--	--	--	--	--	--
			1.8	27100	--	--	--	--	--	--	--	--
						LINE 294						
JAN 28, 75	1555	2	.3	15400	--	--	--	--	--	--	--	--
APR 15, 75	1350	2	.3	29500	--	--	--	--	--	--	--	--
			1.8	29900	--	--	--	--	--	--	--	--
MAY 28, 75	1035	2	.3	13100	--	--	--	--	--	--	--	--
AUG 26, 75	1340	2	.3	20900	220.0	470.0	3800	160.0	186	890	6600	12200

TABLE 6C--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (LAB)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
						LINE 307						
OCT 16, 74	1620	3	.3	33900	--	--	--	--	--	--	--	--
JAN 28, 75	1330	3	.5	20800	--	--	--	--	--	--	--	--
			1.7	21200	--	--	--	--	--	--	--	--
APR 15, 75	1225	3	.3	40200	--	--	--	--	--	--	--	--
			1.8	40200	--	--	--	--	--	--	--	--
MAY 27, 75	1610	3	.3	25000	--	--	--	--	--	--	--	--
AUG 26, 75	1110	3	.3	16400	--	--	--	--	--	--	--	--
						LINE 311						
OCT 17, 74	1430	5	.3	25600	180.0	630.0	5100	200.0	158	1500	9400	17100
			1.7	31700	--	--	--	--	--	--	--	--
APR 16, 75	1105	5	.3	29500	250.0	690.0	5700	270.0	177	1400	10000	18400
MAY 28, 75	1205	5	.3	16200	150.0	420.0	3300	130.0	165	810	6000	10900
AUG 26, 75	1530	5	.3	37900	270.0	800.0	7200	290.0	160	1700	13000	23300
						LINE 314						
OCT 17, 74	1340	3	.3	26600	--	--	--	--	--	--	--	--
			1.5	38300	--	--	--	--	--	--	--	--
APR 16, 75	1050	3	.3	29000	--	--	--	--	--	--	--	--
MAY 28, 75	1145	3	.3	33000	--	--	--	--	--	--	--	--
AUG 26, 75	1505	3	.3	41100	--	--	--	--	--	--	--	--
						LINE 333						
JAN 28, 75	1200	2	.5	29500	--	--	--	--	--	--	--	--
			2.1	38000	--	--	--	--	--	--	--	--
MAY 27, 75	1530	2	.3	26200	230.0	700.0	5600	220.0	144	1400	10000	18200
			1.8	26500	190.0	720.0	5200	220.0	152	1000	9900	17300
AUG 26, 75	1035	2	.3	22200	--	--	--	--	--	--	--	--
			2.1	27300	--	--	--	--	--	--	--	--
						LINE 354						
OCT 16, 74	1500	3	.3	--	280.0	960.0	8400	320.0	147	2100	15000	27100
			1.5	41600	--	--	--	--	--	--	--	--
JAN 28, 75	1025	3	.3	35000	280.0	830.0	7100	250.0	154	1700	12000	22200
			.9	34900	260.0	800.0	7100	250.0	154	1600	12000	22100
APR 15, 75	1100	3	.3	41000	320.0	960.0	8000	330.0	140	1800	14000	25500
			1.8	41000	310.0	940.0	8000	320.0	140	1800	14000	25400
MAY 27, 75	1405	3	.3	32900	290.0	920.0	6800	260.0	137	1700	13000	23000
			1.8	32600	290.0	880.0	7000	260.0	139	1600	13000	23100
AUG 26, 75	0925	3	.3	38100	370.0	830.0	7100	280.0	180	1700	13000	23400
			1.8	48600	--	--	--	--	--	--	--	--

TABLE 60--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 80					
OCT 16, 74	1425	2	.3	60	6	--	--	1	--	--	--
			3.4	30	3	--	--	0	--	--	--
						LINE 145					
JAN 28, 75	1640	2	.3	--	--	--	--	--	--	--	.4
						LINE 153					
APR 15, 75	1430	2	.3	--	--	--	--	--	--	--	.3
MAY 27, 75	1620	2	.3	--	--	--	--	--	--	--	.4
						LINE 170					
OCT 16, 74	1515	2	.3	0	1	--	--	1	--	--	--
AUG 26, 75	1555	2	.3	--	--	--	--	--	--	--	.5
						LINE 200					
OCT 16, 74	1545	2	.3	30	4	5	--	1	0	--	--
						LINE 243					
OCT 16, 74	1640	5	.3	40	4	--	--	1	--	--	--
AUG 26, 75	1340	5	.3	--	--	--	--	--	--	--	.3
						LINE 254					
OCT 16, 74	1350	2	.3	40	3	4	--	0	0	--	--
JAN 28, 75	1925	2	.3	--	--	--	--	--	--	--	.2
						LINE 264					
OCT 16, 74	1745	4	.3	60	4	--	--	1	--	--	--
APR 15, 75	1520	4	.3	--	--	--	--	--	--	--	.6
			1.2	--	--	--	--	--	--	--	.7
MAY 28, 75	1200	4	.3	--	--	--	--	--	--	--	.4
AUG 26, 75	1215	4	.3	--	--	--	--	--	--	--	.5
						LINE 287					
OCT 17, 74	1225	8	.3	0	3	4	--	0	0	--	--
AUG 26, 75	1400	8	.3	--	--	--	--	--	--	--	.6
						LINE 294					
OCT 16, 74	1720	2	.3	30	4	--	--	0	--	--	--
AUG 26, 75	1340	2	.3	--	--	--	--	--	--	--	.7

TABLE 6D--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 307					
OCT 16, 74	1620	3	.3	30	1	--	--	1	--	--	--
						LINE 311					
APR 16, 75	1105	5	.3	--	--	--	--	--	--	--	1.0
MAY 28, 75	1205	5	.3	--	--	--	--	--	--	--	.8
AUG 26, 75	1530	5	.3	--	--	--	--	--	--	--	1.1
						LINE 314					
OCT 17, 74	1340	3	.3	10	2	2	--	1	0	--	--
						LINE 333					
MAY 27, 75	1530	2	.3	--	--	--	--	--	--	--	1.0
			1.8	--	--	--	--	--	--	--	1.0
						LINE 354					
OCT 16, 74	1500	3	.3	30	0	1	--	0	0	--	--
JAN 28, 75	1025	3	.3	--	--	--	--	--	--	--	.6
			.9	--	--	--	--	--	--	--	1.1
APR 15, 75	1100	3	.3	--	--	--	--	--	--	--	1.1
			1.8	--	--	--	--	--	--	--	1.2
MAY 27, 75	1405	3	.3	--	--	--	--	--	--	--	1.1
			1.8	--	--	--	--	--	--	--	1.2
AUG 26, 75	0925	3	.3	--	--	--	--	--	--	--	1.0

TABLE 6D--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	BOTTOM DEPOSIT COBALT (CO) (UG/GM)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	BOTTOM DEPOSIT COPPER (CU) (UG/GM)
						LINE 80					
OCT 16, 74	1425	2	.3	1.00	--	0	--	--	9	--	--
			3.4	1.00	--	0	--	--	--	--	--
						LINE 170					
OCT 16, 74	1515	2	.3	3.00	--	0	--	--	4	--	--
						LINE 200					
OCT 16, 74	1545	2	.3	3.00	< 10.00	0	3	--	9	6.0	--
						LINE 243					
OCT 16, 74	1640	5	.3	1.00	--	0	--	--	3	--	--
						LINE 254					
OCT 16, 74	1350	2	.3	4.00	< 10.00	0	7	--	3	4.0	--
						LINE 264					
OCT 16, 74	1745	4	.3	4.00	--	0	--	--	5	--	--
						LINE 287					
OCT 17, 74	1225	8	.3	1.00	10.00	0	3	--	5	6.0	--
						LINE 294					
OCT 16, 74	1720	2	.3	.00	--	0	--	--	3	--	--
						LINE 307					
OCT 16, 74	1620	3	.3	.00	--	0	--	--	4	--	--
						LINE 314					
OCT 17, 74	1340	3	.3	.00	10.00	0	0	--	5	6.0	--
						LINE 354					
OCT 16, 74	1500	3	.3	1.00	< 10.00	0	0	--	5	6.0	--

TABLE 6D--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CYANIDE (CN) (MG/L)	BOTTOM DEPOSIT CYANIDE (CN) (UG/GM)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	BOTTOM DEPOSIT IRON (FE) (UG/GM)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	BOTTOM DEPOSIT LEAD (PB) (UG/GM)
						LINE 80					
OCT 16, 74	1425	2	.3	--	--	30	--	--	0	--	--
			3.4	--	--	70	--	--	0	--	--
						LINE 170					
OCT 16, 74	1515	2	.3	--	--	0	--	--	0	--	--
						LINE 200					
OCT 16, 74	1545	2	.3	--	--	10	1200	--	0	0	--
						LINE 243					
OCT 16, 74	1640	5	.3	--	--	0	--	--	2	--	--
						LINE 254					
OCT 16, 74	1350	2	.3	--	--	20	840	--	1	0	--
						LINE 264					
OCT 16, 74	1745	4	.3	--	--	10	--	--	0	--	--
						LINE 287					
OCT 17, 74	1225	8	.3	--	--	30	370	--	3	0	--
						LINE 294					
OCT 16, 74	1720	2	.3	--	--	40	--	--	0	--	--
						LINE 307					
OCT 16, 74	1620	3	.3	--	--	70	--	--	1	--	--
						LINE 314					
OCT 17, 74	1340	3	.3	--	--	60	360	--	0	2	--
						LINE 354					
OCT 16, 74	1500	3	.3	--	--	100	540	--	0	6	--

TABLE 6D--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED LITH-IUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BOTTOM DEPOSIT MAN-GANESE (MN) (UG/GM)	DIS-SOLVED MER-CURY (HG) (UG/L)	TOTAL MER-CURY (HG) (UG/L)	BOTTOM DEPOSIT MER-CURY (HG) (UG/GM)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
						LINE 80						
OCT 16, 74	1425	2	.3	33	35	--	--	.2	--	--	2	1200
			3.4	75	68	--	--	.2	--	--	2	2800
						LINE 170						
OCT 16, 74	1515	2	.3	25	42	--	--	.1	--	--	7	750
						LINE 200						
OCT 16, 74	1545	2	.3	17	10	37	--	.2	.2	--	3	710
						LINE 243						
OCT 16, 74	1640	5	.3	25	0	--	--	.1	--	--	0	780
						LINE 254						
OCT 16, 74	1350	2	.3	33	21	80	--	.2	.3	--	0	1300
						LINE 264						
OCT 16, 74	1745	4	.3	42	36	--	--	.2	--	--	3	1300
						LINE 287						
OCT 17, 74	1225	8	.3	58	35	49	--	.4	.3	--	0	2000
						LINE 294						
OCT 16, 74	1720	2	.3	75	69	--	--	.3	--	--	0	2700
						LINE 307						
OCT 16, 74	1620	3	.3	100	75	--	--	.1	--	--	0	3700
						LINE 314						
OCT 17, 74	1340	3	.3	92	75	66	--	.2	.5	--	0	3400
						LINE 354						
OCT 16, 74	1500	3	.3	130	120	93	--	.4	.4	--	0	4400

TABLE 6D--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	BOTTOM DEPOSIT ZINC (ZN) (UG/GM)
						LINE 80
OCT 16, 74	1425	2	.3	30	--	--
			3.4	20	--	--
						LINE 170
OCT 16, 74	1515	2	.3	20	--	--
						LINE 200
OCT 16, 74	1545	2	.3	20	10	--
						LINE 243
OCT 16, 74	1640	5	.3	8	--	--
						LINE 254
OCT 16, 74	1350	2	.3	8	5	--
						LINE 264
OCT 16, 74	1745	4	.3	10	--	--
						LINE 287
OCT 17, 74	1225	8	.3	20	20	--
						LINE 294
OCT 16, 74	1720	2	.3	30	--	--
						LINE 307
OCT 16, 74	1620	3	.3	50	--	--
						LINE 314
OCT 17, 74	1340	3	.3	30	30	--
						LINE 354
OCT 16, 74	1500	3	.3	60	100	--

TABLE 6E--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL ALDRIN (UG/L)	BOTTOM DEPOSIT ALDRIN (UG/KG)	TOTAL CHLOR-DANE (UG/L)	BOTTOM DEPOSIT CHLOR-DANE (UG/KG)	TOTAL DDD (UG/L)	BOTTOM DEPOSIT DDD (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDE (UG/KG)
						LINE 80					
OCT 16, 74	1425	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 200					
OCT 16, 74	1545	2	.3	.00	--	.0	--	.00	--	.00	--
			1.2	--	.0	--	.0	--	.0	--	.5
						LINE 243					
OCT 16, 74	1640	5	.3	.00	--	.0	--	.00	--	.00	--
			1.2	--	.0	--	.0	--	.4	--	1.1
						LINE 254					
OCT 16, 74	1350	2	.3	.00	--	.0	--	.00	--	.00	--
			1.5	--	.0	--	.0	--	.2	--	.4
						LINE 264					
OCT 16, 74	1745	4	.3	.00	--	.0	--	.00	--	.00	--
			1.5	--	.0	--	.0	--	.0	--	.2
						LINE 287					
OCT 17, 74	1225	8	.3	.00	--	.0	--	.00	--	.00	--
						LINE 307					
OCT 16, 74	1620	3	.3	.00	--	.0	--	.00	--	.00	--
						LINE 314					
OCT 17, 74	1340	3	.3	.00	--	.0	--	.00	--	.00	--
			1.5	--	.0	--	.0	--	.0	--	.2
						LINE 354					
OCT 16, 74	1500	3	.3	.00	--	.0	--	.00	--	.00	--

TABLE 6E--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL TOXA-PHENE (UG/L)	BOTTOM DEPOSIT TOXA-PHENE (UG/KG)	TOTAL ETHION (UG/L)	BOTTOM DEPOSIT ETHION (UG/KG)	TOTAL METHYL TRI-THION (UG/L)	BOTTOM DEPOSIT METHYL TRI-THION (UG/KG)	TOTAL TRI-THION (UG/L)	BOTTOM DEPOSIT TRI-THION (UG/KG)
						LINE 80					
OCT 16, 74	1425	2	.3	.0	--	--	--	--	--	--	--
						LINE 200					
OCT 16, 74	1545	2	.3	.0	--	--	--	--	--	--	--
			1.2	--	0.	--	--	--	--	--	--
						LINE 243					
OCT 16, 74	1640	5	.3	.0	--	--	--	--	--	--	--
			1.2	--	0.	--	--	--	--	--	--
						LINE 254					
OCT 16, 74	1350	2	.3	.0	--	--	--	--	--	--	--
			1.5	--	0.	--	--	--	--	--	--
						LINE 264					
OCT 16, 74	1745	4	.3	.0	--	--	--	--	--	--	--
			1.5	--	0.	--	--	--	--	--	--
						LINE 287					
OCT 17, 74	1225	8	.3	.0	--	--	--	--	--	--	--
						LINE 307					
OCT 16, 74	1620	3	.3	.0	--	--	--	--	--	--	--
						LINE 314					
OCT 17, 74	1340	3	.3	.0	--	--	--	--	--	--	--
			1.5	--	0.	--	--	--	--	--	--
						LINE 354					
OCT 16, 74	1500	3	.3	.0	--	--	--	--	--	--	--

TABLE 6E--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL PCB (UG/L)	BOTTOM DEPOSIT PCB (UG/KG)	TOTAL 2,4-D (UG/L)	BOTTOM DEPOSIT 2,4-D (UG/KG)	TOTAL 2,4,5-T (UG/L)	BOTTOM DEPOSIT 2,4,5-T (UG/KG)	TOTAL SILVEX (UG/L)	BOTTOM DEPOSIT SILVEX (UG/KG)
						LINE 80					
OCT 16, 74	1425	2	.3	.0	--	.00	--	.00	--	.00	--
						LINE 200					
OCT 16, 74	1545	2	.3	.0	--	.00	--	.00	--	.00	--
			1.2	--	.0	--	--	--	--	--	--
						LINE 243					
OCT 16, 74	1640	5	.3	.0	--	.00	--	.00	--	.00	--
			1.2	--	.0	--	--	--	--	--	--
						LINE 254					
OCT 16, 74	1350	2	.3	.0	--	.00	--	.00	--	.00	--
			1.5	--	.0	--	--	--	--	--	--
						LINE 264					
OCT 16, 74	1745	4	.3	.0	--	.00	--	.00	--	.00	--
			1.5	--	.0	--	--	--	--	--	--
						LINE 287					
OCT 17, 74	1225	8	.3	.0	--	.00	--	.00	--	.00	--
						LINE 307					
OCT 16, 74	1620	3	.3	.0	--	.00	--	.00	--	.00	--
						LINE 314					
OCT 17, 74	1340	3	.3	.0	--	.00	--	.00	--	.00	--
			1.5	--	.0	--	--	--	--	--	--
						LINE 354					
OCT 16, 74	1500	3	.3	.0	--	.00	--	.00	--	.00	--

TABLE 6E--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR EPOXIDE (UG/KG)	TOTAL LINDANE (UG/L)	BOTTOM DEPOSIT LINDANE (UG/KG)	TOTAL PARA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL DIAZ-INON (UG/L)
						LINE 80					
OCT 16, 74	1425	2	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 200					
OCT 16, 74	1545	2	.3	.00	--	.00	--	.00	.00	.00	.00
			1.2	--	.0	--	.0	--	--	--	--
						LINE 243					
OCT 16, 74	1640	5	.3	.00	--	.00	--	.00	.00	.00	.00
			1.2	--	.0	--	.0	--	--	--	--
						LINE 254					
OCT 16, 74	1350	2	.3	.00	--	.00	--	.00	.00	.00	.00
			1.5	--	.0	--	.0	--	--	--	--
						LINE 264					
OCT 16, 74	1745	4	.3	.00	--	.00	--	.00	.00	.00	.00
			1.5	--	.0	--	.0	--	--	--	--
						LINE 287					
OCT 17, 74	1225	8	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 307					
OCT 16, 74	1620	3	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 314					
OCT 17, 74	1340	3	.3	.00	--	.00	--	.00	.00	.00	.00
			1.5	--	.0	--	.0	--	--	--	--
						LINE 354					
OCT 16, 74	1500	3	.3	.00	--	.00	--	.00	.00	.00	.00

TABLE 6E--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL DDT (UG/L)	BOTTOM DEPOSIT DDT (UG/KG)	TOTAL DIEL-DRIN (UG/L)	BOTTOM DEPOSIT DIEL-DRIN (UG/KG)	TOTAL ENDRIN (UG/L)	BOTTOM DEPOSIT ENDRIN (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR (UG/KG)
						LINE 80					
OCT 16, 74	1425	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 200					
OCT 16, 74	1545	2	.3	.00	--	.00	--	.00	--	.00	--
			1.2	--	.0	--	.0	--	.0	--	.0
						LINE 243					
OCT 16, 74	1640	5	.3	.00	--	.00	--	.00	--	.00	--
			1.2	--	.0	--	.0	--	.0	--	.0
						LINE 254					
OCT 16, 74	1350	2	.3	.00	--	.00	--	.00	--	.00	--
			1.5	--	.0	--	.0	--	.0	--	.0
						LINE 264					
OCT 16, 74	1745	4	.3	.00	--	.00	--	.00	--	.00	--
			1.5	--	.0	--	.0	--	.0	--	.0
						LINE 287					
OCT 17, 74	1225	8	.3	.00	--	.00	--	.00	--	.00	--
						LINE 307					
OCT 16, 74	1620	3	.3	.00	--	.00	--	.00	--	.00	--
						LINE 314					
OCT 17, 74	1340	3	.3	.00	--	.00	--	.00	--	.00	--
			1.5	--	.0	--	.0	--	.0	--	.0
						LINE 354					
OCT 16, 74	1500	3	.3	.00	--	.00	--	.00	--	.00	--

TABLE 6F--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
						LINE 80	
APR 15, 75	1705	2	.3	--	64	20	1.00
MAY 27, 75	1445	2	.3	--	18	44	3.10
AUG 26, 75	1625	2	.3	--	540	310	--
						LINE 145	
JAN 28, 75	1640	2	.3	--	--	--	.60
						LINE 153	
APR 15, 75	1430	2	.3	--	--	--	.20
MAY 27, 75	1620	2	.3	--	--	--	.10
						LINE 170	
AUG 26, 75	1555	2	.3	--	160	290	.90
						LINE 200	
OCT 16, 74	1545	2	.3	36	--	28	--
JAN 28, 75	1755	2	.3	--	--	--	4.50
APR 15, 75	1530	2	.3	220	180	160	--
MAY 27, 75	1510	2	.3	170	140	30	5.90
AUG 26, 75	1530	2	.3	--	6	14	2.70
						LINE 243	
OCT 16, 74	1640	5	.3	--	--	28	--
JAN 28, 75	1520	5	.3	--	--	--	.60
APR 15, 75	1600	5	.3	50	40	24	1.10
MAY 28, 75	1305	5	.3	150	120	36	1.30
AUG 26, 75	1340	5	.3	20	0	0	3.80
						LINE 254	
OCT 16, 74	1350	2	.3	0	4	1	--
APR 15, 75	1700	2	.3	0	0	0	.00
MAY 28, 75	0915	2	.3	0	0	0	7.20
AUG 26, 75	1010	2	.3	140	5	4	3.10
						LINE 264	
OCT 16, 74	1745	4	.3	64	--	0	--
JAN 28, 75	1410	4	.3	--	--	--	5.40

TABLE 6F--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
				LINE 264 CONTINUED			
APR 15, 75	1520	4	.3	0	0	0	2.10
AUG 26, 75	1215	4	.3	--	--	--	2.80
				LINE 274			
APR 15, 75	1235	2	.3	--	--	--	2.60
AUG 26, 75	1145	2	.3	--	2	12	3.20
				LINE 287			
JAN 28, 75	1140	8	.3	--	--	--	1.20
APR 15, 75	1005	8	.3	0	0	0	.70
MAY 28, 75	1040	8	.3	--	0	170	2.70
AUG 26, 75	1400	8	.3	0	0	1	2.80
				LINE 294			
APR 15, 75	1350	2	.3	--	--	--	.80
AUG 26, 75	1340	2	.3	--	--	--	2.00
				LINE 307			
JAN 28, 75	1330	3	.5	--	--	--	.00
APR 15, 75	1225	3	.3	0	0	0	--
MAY 27, 75	1610	3	.3	50	0	2	1.00
AUG 26, 75	1110	3	.3	--	--	--	3.70
				LINE 311			
APR 16, 75	1105	5	.3	0	0	2	--
MAY 28, 75	1205	5	.3	--	22	100	1.60
AUG 26, 75	1530	5	.3	0	0	2	3.40
				LINE 314			
APR 16, 75	1050	3	.3	--	0	12	.30
MAY 28, 75	1145	3	.3	840	36	64	2.80
AUG 26, 75	1505	3	.3	0	0	0	2.00
				LINE 330			
OCT 16, 74	1600	2	.3	0	2	1	--
				LINE 333			
JAN 28, 75	1200	2	.5	--	--	--	.00
MAY 27, 75	1530	2	.3	0	0	0	.70

TABLE 6F--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
				LINE 333 CONTINUED			
AUG 26, 75	1035	2	.3	4	4	8	1.20
AUG 26, 75	1025	3	.3	0	2	0	--
				LINE 354			
OCT 16, 74	1500	3	.3	0	0	0	--
JAN 28, 75	1025	3	.3	--	--	--	.10
APR 15, 75	1100	3	.3	2	0	1	.40
MAY 27, 75	1405	3	.3	0	0	0	.20
AUG 26, 75	0925	3	.3	320	104	176	1.40

Mission-Aransas Estuary

The Mission-Aransas estuary covers an area of about 160 square miles (414 km^2) and consists of the tidal parts of Mission River, Aransas River, Copano Creek and other tributaries, Mission Bay, Copano Bay, Aransas Bay, St. Charles Bay, Carlos Bay, part of Redfish Bay, parts of the Intracoastal Waterway, Lydia Ann Channel, and Aransas Pass (Figure 8). Water depth at mlw is less than 2 feet (0.6 m) in Mission Bay, less than 8 feet (2.4 m) in Copano Bay, less than 13 feet (4.0 m) in Aransas Bay, less than 5 feet (1.5 m) in St. Charles Bay, 4 feet (1.2 m) or less in Carlos and Redfish Bays, about 15 feet (4.6 m) in the Intracoastal Waterway, about 20 feet (6.1 m) in the Lydia Ann Channel, and more than 40 feet (12.2 m) in Aransas Pass.

Water-quality data (Table 7) were collected during October 1974 and January, April, May, and August 1975.

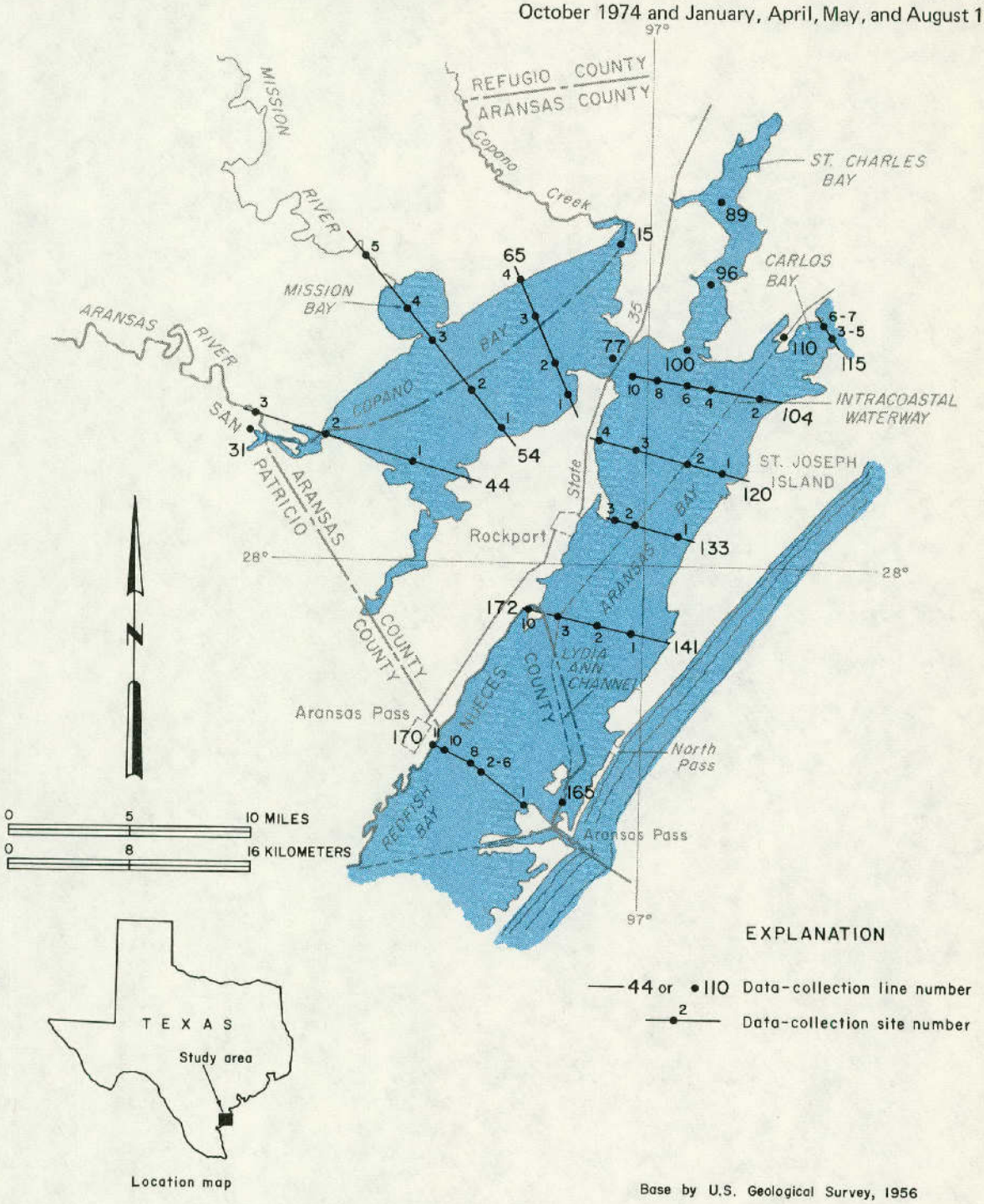

Figure 8.—Data-Collection Sites in the Mission-Aransas Estuary

TABLE 7A--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
						LINE 15				
OCT 17, 74	1110	2	.3	15000	21.0	8.2	9.3	108	30.	99
			1.2	15000	20.9	8.1	9.6	112	20.	--
JAN 29, 75	1150	2	.3	16000	20.7	8.2	8.4	98	10.	54
			1.2	16000	20.7	8.2	8.6	100	15.	--
APR 16, 75	1330	2	.3	20000	22.5	8.3	8.5	104	--	75
			1.5	20000	22.4	8.3	8.5	102	--	--
MAY 29, 75	1145	2	.3	22000	26.7	--	6.9	92	20.	32
			1.5	22000	26.7	--	6.9	92	20.	--
AUG 27, 75	1350	2	.3	24000	27.3	8.4	6.8	92	0.	92
			1.5	24000	27.2	8.4	6.7	91	5.	--
						LINE 44				
OCT 17, 74	0945	1	.3	10000	19.9	8.1	10.0	112	--	56
			2.1	10000	19.9	8.1	9.7	109	30.	--
JAN 29, 75	1015	1	.3	14000	19.4	8.2	9.1	102	20.	68
			2.1	14000	19.4	8.2	9.1	102	15.	--
APR 16, 75	1055	1	.3	18000	21.8	8.3	8.6	104	--	68
			1.2	18000	21.7	8.3	8.6	102	--	--
			2.4	18000	21.7	8.2	8.7	104	--	--
MAY 29, 75	1335	1	.3	18000	26.3	--	7.5	97	5.	86
			2.1	18000	26.3	--	7.4	96	10.	--
AUG 27, 75	1110	1	.3	21000	28.0	8.3	6.7	92	10.	61
			1.2	21000	27.8	8.3	6.5	89	10.	--
			2.4	21000	27.8	8.3	6.2	85	30.	--
OCT 17, 74	0925	2	.3	6200	18.4	8.4	9.7	104	50.	41
			1.2	10000	20.8	8.1	8.0	92	40.	--
JAN 29, 75	0945	2	.3	14000	20.3	8.2	8.5	98	40.	46
			.9	14000	20.2	8.2	8.2	93	35.	--
APR 16, 75	1035	2	.3	18000	21.8	8.3	7.9	95	--	50
			.9	18000	21.7	8.3	8.0	95	--	--
MAY 29, 75	1355	2	.3	18000	26.3	--	7.7	100	5.	52
			.9	18000	26.2	--	7.5	97	5.	--
AUG 27, 75	1055	2	.3	21000	27.4	8.3	5.7	76	10.	37
			1.1	21000	27.2	8.3	5.4	72	30.	--
						LINE 54				
OCT 17, 74	1000	1	.3	12000	20.1	8.1	--	--	30.	76
			2.1	12000	20.4	8.0	9.3	107	25.	--
JAN 29, 75	1030	1	.3	16000	19.6	8.2	8.9	101	10.	123
			2.1	16000	19.7	8.2	9.0	102	40.	--
APR 16, 75	1110	1	.3	18000	21.7	8.2	8.6	102	--	77
			1.2	18000	21.7	8.3	8.7	104	--	--
			2.1	18000	21.7	8.3	8.7	104	--	--
MAY 29, 75	1315	1	.3	18000	26.2	--	7.7	100	10.	65
			2.1	18000	26.2	--	7.6	99	10.	--
AUG 27, 75	1125	1	.3	22000	28.1	8.4	6.5	89	10.	101

TABLE 7A--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 54 CONTINUED						
AUG 27, 75	1125	1	2.4	22000	28.0	8.3	6.1	84	25.	--
OCT 17, 74	1015	2	.3	12000	20.3	8.2	10.4	120	40.	74
			1.8	12000	20.3	8.2	10.4	120	35.	--
JAN 29, 75	1050	2	.3	16000	19.4	8.2	9.0	102	20.	37
			2.1	16000	19.4	8.1	9.1	103	10.	--
MAY 29, 75	1300	2	.3	20000	26.7	--	7.2	96	20.	27
			2.1	20000	26.7	--	7.2	96	30.	--
AUG 27, 75	1135	2	.3	20000	28.1	8.4	6.8	93	10.	78
			2.4	21000	28.0	8.3	6.3	86	90.	--
OCT 17, 74	1030	3	.3	11000	18.8	8.1	9.5	104	50.	51
			1.2	10000	19.0	8.1	9.6	105	55.	--
JAN 29, 75	1105	3	.3	13000	20.4	8.2	8.4	97	30.	31
			1.2	13000	20.2	8.2	8.5	97	60.	--
APR 16, 75	1135	3	.3	18000	21.7	8.2	8.3	99	--	27
			1.5	18000	21.7	8.2	8.4	100	--	--
MAY 29, 75	1240	3	.3	18000	26.7	--	7.1	93	40.	22
			1.5	18000	26.8	--	7.1	93	40.	--
AUG 27, 75	1145	3	.3	22000	28.2	8.3	6.7	92	10.	55
			1.5	23000	28.0	8.3	6.3	86	25.	--
				LINE 65						
OCT 17, 74	1205	1	.3	14000	21.0	8.1	11.8	137	35.	117
			1.5	14000	21.1	8.1	11.2	130	40.	--
JAN 29, 75	1255	1	.3	18000	19.7	8.2	9.2	105	5.	126
			1.6	18000	19.7	8.2	9.4	107	0.	--
APR 16, 75	1210	1	.3	18000	21.9	8.3	9.0	108	--	68
			1.2	18000	21.9	8.3	9.0	108	--	--
			2.1	18000	21.8	8.3	9.0	108	--	--
MAY 29, 75	1105	1	.3	17000	26.5	--	6.9	91	10.	51
			2.1	17000	26.8	--	6.9	91	30.	--
AUG 27, 75	1245	1	.3	21000	27.9	8.3	6.8	93	0.	120
			2.1	22000	27.8	8.3	6.2	85	5.	--
OCT 17, 74	1145	2	.3	14000	21.0	8.2	9.8	114	35.	127
			2.1	16000	21.5	8.0	8.6	101	35.	--
JAN 29, 75	1235	2	.3	16000	19.7	8.2	9.1	103	5.	78
			2.1	16000	19.6	8.2	8.3	94	5.	--
APR 16, 75	1220	2	.3	18000	21.9	8.3	9.0	108	--	74
			1.2	18000	21.9	8.3	9.0	108	--	--
			2.1	18000	22.1	8.3	8.8	106	--	--
MAY 29, 75	1115	2	.3	17000	26.7	--	7.0	92	20.	63
			1.5	17000	26.7	--	6.9	91	30.	--
AUG 27, 75	1320	2	.3	22000	27.3	8.3	6.8	91	5.	109
			1.8	24000	27.3	8.3	6.5	87	10.	--
OCT 17, 74	1135	3	.3	13000	20.8	8.2	10.3	120	50.	104
			1.8	13000	20.9	8.0	9.3	108	70.	--
JAN 29, 75	1225	3	.3	16000	19.6	8.2	9.1	103	0.	71
			2.1	16000	19.5	8.2	8.9	101	55.	--

TABLE 7A--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 65 CONTINUED						
APR 16, 75	1230	3	.3	18000	21.9	--	8.9	107	--	67
			1.2	18000	21.9	8.3	8.9	107	--	--
			2.1	18000	21.9	8.3	8.9	107	--	--
MAY 29, 75	1125	3	.3	19000	26.8	--	7.0	92	20.	33
			2.1	19000	26.8	--	7.0	92	30.	--
AUG 27, 75	1330	3	.3	21000	27.3	8.3	6.8	91	0.	127
			2.1	22000	27.4	8.3	6.7	89	70.	--
OCT 17, 74	1130	4	.3	12000	20.5	8.2	9.6	110	40.	76
			1.8	12000	21.0	8.1	8.7	101	55.	--
JAN 29, 75	1215	4	.3	13000	20.2	8.2	9.2	105	50.	39
			1.8	14000	19.6	8.1	8.4	94	45.	--
APR 16, 75	1245	4	.3	18000	22.1	--	8.5	102	--	43
			1.8	18000	22.1	8.2	8.4	101	--	--
MAY 29, 75	1130	4	.3	22000	26.7	--	7.0	93	20.	31
			1.8	22000	26.8	--	6.7	89	30.	--
AUG 27, 75	1335	4	.3	26000	27.3	8.3	6.6	89	0.	113
			2.1	27000	27.2	8.3	6.1	84	0.	--
						LINE 77				
OCT 17, 74	1215	2	.3	17000	21.2	8.1	10.7	126	--	--
			1.5	18000	21.1	8.1	11.2	132	--	--
			2.7	23000	21.9	8.1	12.3	150	--	--
						LINE 89				
OCT 17, 74	1725	2	.3	11000	22.0	8.0	7.8	91	20.	61
			1.5	13000	21.4	7.9	7.3	85	40.	--
JAN 29, 75	1440	2	.3	11000	21.2	8.3	9.1	105	20.	44
			1.2	11000	21.2	8.3	9.2	106	15.	--
APR 16, 75	1445	2	.3	16000	23.1	8.2	8.5	102	--	42
			1.2	16000	23.1	8.2	8.3	100	--	--
MAY 29, 75	0955	2	.3	18000	26.1	--	7.2	94	40.	30
			1.2	18000	26.1	--	7.1	92	10.	--
AUG 27, 75	1445	2	.3	20000	27.5	8.3	7.2	97	5.	38
			1.5	20000	27.4	8.3	7.0	95	15.	--
						LINE 100				
OCT 17, 74	1755	2	.3	20000	22.0	7.9	7.9	96	20.	71
			1.1	20000	22.0	7.9	8.0	98	30.	--
JAN 29, 75	1515	2	.3	16000	21.8	8.3	9.8	117	25.	77
			1.2	16000	21.7	8.3	8.4	99	25.	--
APR 16, 75	1425	2	.3	24000	23.1	8.2	8.0	99	--	28
			1.2	24000	23.4	8.2	7.9	99	--	--
MAY 29, 75	0935	2	.3	17000	26.1	--	6.7	87	40.	31
			1.2	17000	26.1	--	6.6	86	20.	--
AUG 27, 75	1425	2	.3	33000	27.1	8.2	6.0	85	10.	63
			1.2	37000	26.6	8.2	5.5	77	25.	--
						LINE 104				
OCT 17, 74	1545	2	.3	22000	22.0	7.9	7.4	90	10.	98

TABLE 7A--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 104 CONTINUED						
OCT 17, 74	1545	2	1.7	29000	21.3	8.0	7.6	94	50.	--
JAN 29, 75	1600	2	.3	27000	20.6	8.3	9.5	116	0.	148
			1.8	27000	20.5	8.3	9.2	112	0.	--
			3.7	27000	20.4	8.3	8.8	107	0.	--
APR 16, 75	1140	2	.3	25000	22.5	--	7.5	94	25.	42
			1.2	25000	23.0	--	7.5	94	50.	--
MAY 28, 75	1240	2	.3	26000	27.2	8.2	8.8	119	100.	38
			1.2	26000	27.2	8.2	9.7	131	--	--
AUG 27, 75	1125	2	.3	42000	27.8	8.5	8.7	130	15.	87
			1.5	42000	27.5	8.5	9.0	134	20.	--
OCT 17, 74	1550	4	.3	21000	21.8	8.0	7.4	90	10.	114
			1.7	24000	21.5	8.0	8.0	98	40.	--
JAN 29, 75	1535	4	.3	25000	20.3	8.3	9.3	112	0.	97
			1.2	25000	20.4	8.3	9.4	113	0.	--
APR 16, 75	1145	4	.3	24000	22.5	--	8.2	100	25.	55
			1.5	23000	23.0	--	8.0	99	15.	--
MAY 28, 75	1250	4	.3	24000	27.1	8.2	8.8	117	90.	51
			1.5	24000	27.2	8.2	8.4	112	115.	--
AUG 27, 75	1115	4	.3	39000	27.0	8.4	8.6	123	20.	100
			1.5	39000	26.9	8.5	8.5	121	10.	--
OCT 17, 74	1600	8	.3	17000	21.8	7.9	7.2	87	5.	123
			2.0	22000	21.9	8.0	7.8	95	30.	--
JAN 29, 75	1400	8	.3	20000	20.1	8.3	9.0	105	--	98
			2.1	21000	19.7	8.3	8.9	102	10.	--
APR 16, 75	1200	8	.3	23000	22.3	--	8.9	109	30.	60
			1.8	24000	22.9	--	8.2	101	30.	--
MAY 28, 75	1305	8	.3	22000	27.5	8.3	9.5	128	20.	53
			1.8	22000	27.5	8.3	9.9	134	40.	--
AUG 27, 75	1045	8	.3	38000	27.2	8.4	7.4	106	--	83
			1.8	38000	27.0	8.4	7.2	103	10.	--
OCT 17, 74	1630	10	.3	15000	22.3	7.8	8.9	106	5.	121
			1.5	21000	21.8	7.9	9.0	110	10.	--
			2.4	23000	22.0	7.8	7.9	96	35.	--
JAN 29, 75	1345	10	.3	16000	20.4	8.3	8.9	102	25.	89
			2.1	22000	19.5	8.3	8.8	102	0.	--
APR 16, 75	1215	10	.3	19000	22.5	--	9.1	111	20.	75
			1.8	20000	22.6	--	8.4	104	30.	--
MAY 28, 75	1310	10	.3	20000	27.4	8.2	8.4	114	30.	53
			2.1	20000	27.4	8.2	9.2	124	30.	--
AUG 27, 75	1040	10	.3	35000	26.8	8.3	7.5	106	5.	87
			1.8	35000	26.4	8.3	7.2	100	5.	--
				LINE 110						
APR 16, 75	1530	2	.3	20000	23.3	8.3	8.6	105	--	27
			2.4	20000	22.3	8.2	8.2	100	--	--
			4.3	20000	22.3	8.2	8.0	96	--	--
AUG 27, 75	1140	2	.3	33000	27.0	8.4	11.1	156	25.	62

TABLE 7A--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 110 CONTINUED						
AUG 27, 75	1140	2	1.5	33000	27.0	8.4	10.9	154	30.	--
			3.7	33000	26.3	8.4	11.6	161	--	--
				LINE 115						
OCT 17, 74	1445	3	.3	25000	20.7	7.9	7.6	92	10.	103
			.9	25000	20.8	7.9	7.6	93	10.	--
			1.1	25000	20.8	7.9	8.8	107	10.	--
			1.2	25000	21.2	8.0	8.8	107	40.	--
JAN 29, 75	1630	3	.3	22000	21.9	8.2	8.9	109	--	109
			1.2	22000	21.9	8.2	9.1	111	--	--
APR 16, 75	1120	4	.3	29000	22.1	--	7.8	98	60.	32
			.9	29000	22.8	--	7.5	95	65.	--
OCT 17, 74	1500	5	.3	26000	21.0	7.9	7.6	93	5.	97
			1.2	26000	21.0	8.0	7.8	95	10.	--
			1.4	26000	21.2	8.0	9.2	112	100.	--
JAN 29, 75	1615	5	.3	24000	21.9	8.2	8.8	107	10.	75
			.9	24000	21.9	8.2	9.2	112	5.	--
APR 16, 75	1125	5	.3	27000	22.0	--	7.9	99	20.	46
			.9	27000	22.2	--	7.6	95	20.	--
MAY 28, 75	1230	5	.3	19000	26.8	8.0	8.0	105	80.	43
			1.2	19000	26.9	8.0	7.5	99	290.	--
AUG 27, 75	1540	5	.3	38000	28.0	8.3	8.7	128	40.	45
			1.2	38000	27.8	8.3	8.9	131	50.	--
OCT 17, 74	1525	7	.3	25000	21.7	7.9	6.8	84	5.	80
			1.1	28000	22.0	7.8	7.0	88	30.	--
JAN 29, 75	1655	7	.3	24000	22.1	8.2	9.9	121	--	89
			.8	24000	22.1	8.2	10.1	123	--	--
				LINE 120						
OCT 17, 74	1345	1	.3	21000	21.5	8.2	10.3	124	20.	119
			1.8	27000	20.9	8.2	9.6	119	40.	--
			3.7	27000	20.9	8.1	8.5	105	60.	--
JAN 29, 75	1830	1	.3	31000	20.1	8.2	8.7	106	20.	--
			1.5	31000	20.1	8.2	8.8	107	50.	--
			3.7	26000	20.5	8.2	9.0	108	20.	--
APR 16, 75	1415	1	.5	23000	22.1	--	9.4	115	10.	64
			1.8	23000	22.1	--	9.2	112	40.	--
			3.7	23000	22.1	--	9.0	110	10.	--
MAY 28, 75	1420	1	.3	24000	27.1	8.2	9.0	120	20.	51
			1.5	23000	27.1	8.3	9.4	125	20.	--
			3.0	24000	27.0	8.3	9.3	124	40.	--
AUG 27, 75	1215	1	.3	39000	25.2	8.3	7.2	99	--	105
			1.5	41000	24.8	8.3	5.7	79	0.	--
			3.7	41000	23.0	8.3	5.0	68	0.	--
OCT 17, 74	1340	2	.3	26000	21.8	8.2	9.9	122	30.	117
			2.1	21000	21.9	8.1	9.0	110	55.	--
APR 16, 75	1350	2	.5	19000	22.1	--	9.3	112	40.	52
			2.4	19000	22.4	--	9.0	108	80.	--
MAY 28, 75	1410	2	.3	22000	27.2	8.2	9.5	127	50.	48

TABLE 7A--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 120 CONTINUED						
MAY 28, 75	1410	2	2.1	22000	27.1	6.2	9.4	125	50.	--
AUG 27, 75	1250	2	.3	36000	25.0	8.4	8.6	116	10.	117
			2.4	39500	24.2	8.3	6.8	92	0.	--
OCT 17, 74	1330	3	.3	23000	21.9	8.2	9.2	112	35.	114
			1.2	23000	21.9	8.2	9.2	112	40.	--
			2.4	23000	22.0	8.1	7.6	93	45.	--
JAN 29, 75	1815	3	.3	22000	20.4	8.1	8.7	104	0.	--
			1.5	22000	20.4	8.1	8.6	102	0.	--
			2.4	20000	20.4	8.1	8.9	105	0.	--
APR 16, 75	1345	3	.5	19000	22.0	--	9.3	112	45.	62
			1.5	19000	22.1	--	9.3	112	65.	--
			2.7	19000	22.2	--	8.9	107	20.	--
MAY 28, 75	1400	3	.3	21000	27.2	8.2	9.9	132	35.	58
			1.5	21000	27.1	8.2	9.7	129	40.	--
			2.4	21000	27.1	8.3	9.7	129	40.	--
AUG 27, 75	1300	3	.3	33000	26.1	8.4	8.1	109	20.	100
			2.4	35000	25.0	8.4	7.7	104	45.	--
OCT 17, 74	1325	4	.3	25500	22.8	8.2	8.5	106	45.	94
			2.1	23000	23.0	8.2	8.2	101	55.	--
JAN 29, 75	1805	4	.3	20000	20.5	8.1	8.7	102	5.	--
			1.5	20000	20.5	8.2	8.7	102	0.	--
			2.6	20000	20.8	8.2	8.9	106	5.	--
APR 16, 75	1335	4	.5	19000	22.4	--	9.4	113	20.	62
			1.5	19000	22.8	--	9.2	112	20.	--
			2.4	19000	23.0	--	8.9	109	25.	--
MAY 28, 75	1350	4	.3	20000	27.1	8.2	9.4	125	20.	69
			1.5	22000	27.1	8.2	9.3	124	20.	--
			2.4	22000	27.1	8.2	8.9	119	60.	--
AUG 27, 75	1305	4	.3	33000	26.0	8.4	8.2	114	10.	153
			2.4	35000	25.3	8.3	6.6	89	10.	--
				LINE 133						
OCT 17, 74	1425	1	.3	25000	23.8	8.3	11.9	149	15.	107
			1.5	26000	22.3	8.3	11.6	143	20.	--
			3.0	26000	22.0	8.2	10.8	133	35.	--
JAN 29, 75	1730	1	.3	22000	20.3	8.3	8.8	105	0.	279
			1.5	22000	20.5	8.3	8.0	95	0.	--
			2.4	22000	20.8	8.3	8.8	106	0.	--
APR 16, 75	1430	1	.3	26000	22.1	--	9.1	112	10.	105
			2.4	27000	22.5	--	7.8	98	15.	--
MAY 28, 75	1435	1	.3	24000	26.9	8.3	9.7	129	40.	86
			1.5	24000	26.9	8.3	9.7	129	40.	--
			2.4	24000	26.9	8.3	9.6	128	30.	--
AUG 27, 75	1345	1	.3	42000	26.9	8.4	8.4	124	--	131
			1.5	44000	26.9	8.4	7.7	115	15.	--
			3.0	47000	26.0	8.3	5.8	85	200.	--
OCT 17, 74	1415	2	.3	26000	22.0	8.3	11.2	138	25.	89
			1.8	26000	21.8	8.3	10.9	135	30.	--
			4.0	26000	22.1	8.1	9.0	111	105.	--
JAN 29, 75	1740	2	.3	22000	20.4	8.2	8.2	98	0.	180

TABLE 7A--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
				LINE 133 CONTINUED						
JAN 29, 75	1740	2	1.5	16000	20.2	8.2	8.6	99	10.	--
			3.7	20000	20.9	8.2	7.7	92	20.	--
APR 16, 75	1445	2	.5	23000	22.0	--	9.0	110	25.	65
			1.8	13000	22.1	--	9.3	109	50.	--
			3.7	23000	22.1	--	8.6	105	60.	--
MAY 28, 75	1445	2	.3	23000	27.4	8.2	9.7	131	20.	53
			1.5	23000	27.4	8.2	9.6	130	20.	--
			3.0	23000	27.3	8.2	10.5	140	30.	--
AUG 27, 75	1330	2	.3	41000	26.7	8.4	8.5	123	30.	166
			1.5	44000	26.7	8.5	8.3	124	20.	--
			4.0	47000	26.2	8.4	7.1	104	30.	--
OCT 17, 74	1405	3	.3	24000	23.1	8.3	11.0	136	30.	94
			1.2	25000	22.7	8.3	11.7	146	30.	--
JAN 29, 75	1745	3	.3	20000	20.5	8.2	8.7	102	0.	--
			1.7	22000	20.5	8.2	8.0	95	0.	--
APR 16, 75	1450	3	.5	22000	22.2	--	9.5	116	10.	66
			1.2	22000	22.4	--	9.3	113	15.	--
MAY 28, 75	1455	3	.3	24000	27.4	8.3	8.4	114	60.	51
			1.2	24000	27.4	8.3	9.5	128	75.	--
AUG 27, 75	1325	3	.3	36000	26.5	8.4	8.3	115	0.	155
			1.2	42000	26.0	8.4	8.1	117	10.	--
						LINE 141				
OCT 17, 74	1435	1	.3	25000	22.9	8.3	8.9	111	20.	69
			1.2	25000	21.8	8.3	8.9	110	20.	--
			2.4	25000	21.8	8.3	8.7	107	35.	--
JAN 29, 75	1710	1	.3	24000	20.2	8.3	8.3	98	0.	207
			1.5	26000	20.5	8.3	8.3	100	5.	--
			2.7	22000	21.0	8.2	7.6	92	5.	--
APR 16, 75	1535	1	.5	23000	22.0	--	9.0	110	15.	86
			2.7	23000	22.1	--	8.9	109	5.	--
MAY 28, 75	1535	1	.3	26000	26.6	8.2	10.0	135	5.	58
			2.1	26000	26.6	8.3	8.9	120	20.	--
AUG 27, 75	1455	1	.3	47000	28.0	8.3	7.0	106	10.	189
			2.4	49000	28.0	8.3	6.4	98	0.	--
OCT 17, 74	1455	2	.3	25000	22.7	8.3	9.3	116	20.	84
			1.2	25000	21.7	8.3	8.9	110	30.	--
			2.4	26000	21.8	8.2	7.7	95	35.	--
JAN 29, 75	1700	2	.5	32000	21.0	8.3	7.5	94	0.	249
			1.5	39000	21.0	8.2	7.0	91	0.	--
			2.9	37000	21.5	8.3	7.8	100	5.	--
APR 16, 75	1520	2	.5	23000	22.0	--	9.1	111	10.	65
			1.5	23000	22.0	--	9.0	110	15.	--
			2.7	23000	22.1	--	8.8	107	10.	--
MAY 28, 75	1525	2	.3	28000	27.2	8.2	9.1	125	20.	66
			2.4	29000	27.2	8.2	8.8	121	35.	--
AUG 27, 75	1500	2	.3	47000	28.1	8.3	7.0	106	--	155
			1.5	47000	28.1	8.3	6.7	102	5.	--
			2.7	47000	28.0	8.2	6.1	92	15.	--
OCT 17, 74	1540	3	.3	26000	22.7	8.3	8.5	106	35.	76

TABLE 7A--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 141 CONTINUED						
OCT 17, 74	1540	3	1.8	37000	22.5	8.3	7.4	104	30.	--
			3.7	38000	23.5	8.2	6.0	81	60.	--
JAN 29, 75	1650	3	.5	13000	22.1	8.2	7.6	89	5.	252
			1.5	13000	22.8	8.2	7.3	87	5.	--
			3.4	12000	24.2	8.2	7.5	91	10.	--
APR 16, 75	1510	3	.5	23000	22.0	--	9.1	111	15.	64
			1.8	23000	22.1	--	9.0	110	20.	--
			3.7	23000	22.4	--	9.2	112	45.	--
MAY 28, 75	1515	3	.3	26000	27.0	8.3	9.2	124	20.	64
			1.5	26000	26.9	8.2	9.5	128	--	--
			3.0	26000	26.9	8.3	8.8	119	15.	--
AUG 27, 75	1515	3	.3	47000	28.0	8.3	6.4	97	30.	184
			1.5	49000	28.0	8.3	5.9	91	30.	--
			3.7	47000	28.0	8.2	5.2	78	45.	--
AUG 28, 75	0810	3	.3	41000	27.8	8.4	6.6	97	20.	240
			1.5	42000	27.8	8.4	6.1	91	10.	--
			3.7	46000	28.1	8.3	4.6	70	30.	--
				LINE 165						
OCT 17, 74	1515	2	.3	26000	22.5	8.3	8.8	110	25.	81
			1.5	31000	22.1	8.3	8.2	104	30.	--
			3.0	31000	22.2	8.2	7.9	100	40.	--
			5.5	31000	22.3	8.2	7.7	97	40.	--
JAN 30, 75	0920	2	.3	46000	19.2	8.0	6.7	85	10.	197
			1.5	46000	19.2	8.0	6.4	81	10.	--
			3.0	46000	19.5	8.0	6.4	82	10.	--
			4.4	46000	20.1	7.9	6.4	83	10.	--
APR 16, 75	1620	2	.3	42000	21.0	--	10.0	132	15.	108
			1.8	42000	21.0	--	10.0	132	5.	--
			3.7	42000	21.1	--	9.9	130	10.	--
MAY 28, 75	1605	2	.3	34000	27.1	8.2	9.2	130	0.	157
			1.5	34000	27.1	8.2	9.4	132	10.	--
			3.4	34000	27.1	8.2	9.2	130	5.	--
AUG 28, 75	0835	2	.3	52000	28.2	8.2	6.7	105	30.	205
			1.5	50000	28.2	8.4	6.7	103	20.	--
			4.3	52000	28.2	8.2	6.6	103	10.	--

TABLE 78--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 15						
OCT 17, 74	1110	2	.3	9.3	.00	.01	.00	--	.06	1.4	0	5.6
			1.2	9.3	.00	.00	.00	--	.06	1.4	0	--
JAN 29, 75	1150	2	.3	7.4	.00	.00	.00	--	.06	1.2	5	15.0
APR 16, 75	1300	2	.3	9.4	.00	.03	.00	--	.08	1.4	5	8.2
			1.5	--	.01	.02	.00	--	.09	1.1	4	4.0
MAY 29, 75	1145	2	.3	6.7	.00	.02	.01	--	.10	1.5	0	30.0
AUG 27, 75	1350	2	.3	8.3	.00	.01	.00	--	.05	.7	0	--
						LINE 44						
OCT 17, 74	0925	2	.3	--	.00	.01	.00	--	.10	3.0	0	8.6
			1.2	--	.00	.00	.00	--	.06	1.5	0	--
JAN 29, 75	0945	2	.3	--	.00	.01	.00	--	.06	.9	8	16.0
APR 16, 75	1035	2	.3	--	.00	.03	.00	--	.08	2.1	3	13.0
MAY 29, 75	1355	2	.3	--	.00	.00	.01	--	.09	2.2	0	32.0
AUG 27, 75	1255	2	.3	--	.00	.02	.00	--	.09	1.7	0	--
						LINE 54						
OCT 17, 74	1000	1	.3	--	.00	.01	.00	--	.07	1.5	0	7.6
			2.1	--	.00	.01	.00	--	.07	1.7	4	--
JAN 29, 75	1030	1	.3	--	.00	.01	.01	--	.06	.9	--	--
			2.1	--	.00	.00	.01	--	.06	.9	--	--
APR 16, 75	1110	1	.3	--	.05	.02	.01	--	.10	.9	1	3.7
			2.1	--	.04	.03	.00	--	.11	1.0	2	3.8
MAY 29, 75	1315	1	.3	--	.00	.00	.00	--	.10	1.9	--	--
			2.1	--	.00	.01	.01	--	.10	1.8	--	--
AUG 27, 75	1125	1	.3	--	.00	.00	.00	--	.06	1.0	0	--
OCT 17, 74	1030	3	.3	--	.00	.00	.00	--	.06	1.9	4	6.2
			1.2	--	.00	.01	.00	--	.08	2.0	0	--
JAN 29, 75	1105	3	.3	--	.00	.02	.00	--	.07	1.0	--	--
			1.2	--	.00	.06	.03	--	.30	1.5	--	--
APR 16, 75	1135	3	.3	--	.07	.12	.00	--	.14	1.1	3	9.8
			1.5	--	.07	.01	.00	--	.14	1.2	0	8.0
MAY 29, 75	1240	3	.3	--	.01	.02	.01	--	.12	1.2	--	--
			1.5	--	.02	.00	.00	--	.12	1.6	--	--
AUG 27, 75	1145	3	.3	--	.02	.01	.00	--	.07	1.0	0	--
						LINE 89						
OCT 17, 74	1725	2	.3	15.0	.00	.00	.00	--	.05	2.9	0	2.3
JAN 29, 75	1440	2	.3	8.2	.00	.00	.01	--	.06	1.1	--	--
APR 16, 75	1445	2	.3	10.0	.00	.00	.00	--	.06	1.7	0	6.4
			1.2	--	.00	.00	.00	--	.06	1.8	0	6.8

TABLE 7a--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 89 CONTINUED						
MAY 29, 75	0955	2	.3	14.0	.00	.01	.00	--	.06	1.1	--	--
AUG 27, 75	1445	2	.3	10.0	.00	.00	.00	--	.04	1.5	0	--
						LINE 104						
OCT 17, 74	1600	8	.3	--	.00	.00	.00	--	.07	2.9	0	6.0
			2.0	--	.00	.01	.00	--	.10	2.1	0	--
JAN 29, 75	1400	8	.3	--	.00	.00	.00	--	.06	1.1	--	--
APR 16, 75	1230	8	.3	--	.00	.00	.00	--	.07	1.0	0	4.3
			1.8	--	.01	.00	.01	--	.08	.9	0	6.4
MAY 28, 75	1305	8	.3	--	.00	.00	.01	--	.10	1.5	--	--
AUG 27, 75	1045	8	.3	5.7	.01	.00	.00	--	.06	.8	0	--
						LINE 115						
OCT 17, 74	1500	5	.3	7.0	.00	.00	.00	--	.09	1.3	0	4.2
			1.4	--	.00	.01	.00	--	.12	1.9	--	--
JAN 29, 75	1615	5	.3	4.1	.00	.00	.01	--	.07	1.4	--	--
APR 16, 75	1125	5	.3	--	.01	.00	.00	--	.06	.7	0	3.4
			.9	--	.01	.00	.00	--	.08	.6	0	7.3
MAY 28, 75	1230	5	.3	5.8	.04	.05	.01	--	.13	.9	--	--
AUG 27, 75	1540	5	.3	5.5	.00	.00	.00	--	.10	1.2	0	--
			1.2	--	.01	.01	.00	--	.11	1.2	--	--
						LINE 120						
OCT 17, 74	1345	1	.3	--	.00	.01	.00	--	.08	1.5	0	5.1
			3.7	--	.00	.02	.00	--	.09	1.9	0	--
JAN 29, 75	1830	1	.3	--	.01	.01	.00	--	.06	1.6	--	--
			3.7	--	.00	.01	.01	--	.12	2.4	--	--
APR 16, 75	1415	1	.5	--	.00	.00	.00	--	.06	1.0	0	3.9
			3.7	--	.00	.00	.00	--	.08	.9	0	5.0
MAY 28, 75	1420	1	.3	--	.00	.02	.00	--	.09	1.5	--	--
			3.0	--	.00	.00	.01	--	.08	1.4	--	--
AUG 27, 75	1215	1	.3	--	.01	.01	.00	--	.06	.7	0	--
						LINE 133						
OCT 17, 74	1405	3	.3	--	--	--	--	--	--	1.8	8	4.4
			1.2	--	.00	.01	.00	--	.08	1.6	0	--
JAN 29, 75	1745	3	.3	--	.00	.01	.01	--	.06	1.5	--	--
			1.7	--	.00	.01	.00	--	.06	1.5	--	--
APR 16, 75	1450	3	.5	--	.00	.01	.00	--	.06	.8	0	15.0
			1.2	--	.00	.00	.00	--	.06	1.3	0	4.1
MAY 28, 75	1455	3	.3	--	.00	.00	.00	--	.09	1.7	--	--
			1.2	--	.00	.00	.01	--	.11	1.4	--	--
AUG 27, 75	1325	3	.3	--	.00	.01	.00	--	.06	.9	0	--
			1.2	--	.01	.00	.00	--	.04	.8	0	--

TABLE 78--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 141						
OCT 17, 74	1455	2	.3	7.3	.00	.00	.01	--	.08	1.7	0	4.6
			2.4	7.0	.00	.00	.00	--	.08	1.7	0	--
JAN 29, 75	1700	2	.5	2.7	.01	.09	.00	--	.05	2.0	--	--
			2.9	1.6	.00	.01	.01	--	.05	1.5	--	--
APR 16, 75	1520	2	.5	4.9	.00	.01	.00	--	.06	1.0	0	4.2
			2.7	4.8	.00	.01	.00	--	.05	.9	0	3.5
MAY 28, 75	1525	2	.3	1.8	.00	.00	.00	--	.08	1.5	--	--
			2.4	1.6	.00	.00	.01	--	.08	1.8	--	--
AUG 27, 75	1500	2	.3	2.9	.01	.00	.00	--	.06	.9	0	--
			2.7	--	.00	.00	.00	--	.08	.8	--	--

TABLE 7C--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
						LINE 15						
OCT 17, 74	1110	2	.3	15300	110.0	360.0	2800	120.0	114	720	5100	9280
			1.2	15300	130.0	350.0	2800	120.0	114	780	5200	9450
JAN 29, 75	1150	2	.3	17100	140.0	380.0	3200	200.0	138	750	5600	10300
APR 16, 75	1300	2	.3	19500	150.0	380.0	3300	150.0	162	660	5800	10500
			1.5	19600	--	--	--	--	--	--	--	--
MAY 29, 75	1145	2	.3	21500	180.0	550.0	4400	170.0	157	690	8000	14300
AUG 27, 75	1350	2	.3	23900	230.0	540.0	4300	180.0	149	1000	7900	14200
						LINE 44						
OCT 17, 74	0925	2	.3	6200	--	--	--	--	--	--	--	--
			1.2	10000	--	--	--	--	--	--	--	--
JAN 29, 75	0945	2	.3	14700	--	--	--	--	--	--	--	--
APR 16, 75	1035	2	.3	19500	--	--	--	--	--	--	--	--
MAY 29, 75	1335	2	.3	18100	--	--	--	--	--	--	--	--
AUG 27, 75	1055	2	.3	21400	--	--	--	--	--	--	--	--
						LINE 54						
OCT 17, 74	1000	1	.3	11700	--	--	--	--	--	--	--	--
			2.1	12600	--	--	--	--	--	--	--	--
JAN 29, 75	1030	1	.3	17500	--	--	--	--	--	--	--	--
			2.1	17500	--	--	--	--	--	--	--	--
APR 16, 75	1110	1	.3	18500	--	--	--	--	--	--	--	--
			2.1	18600	--	--	--	--	--	--	--	--
MAY 29, 75	1315	1	.3	17600	--	--	--	--	--	--	--	--
			2.1	17600	--	--	--	--	--	--	--	--
AUG 27, 75	1125	1	.3	22700	--	--	--	--	--	--	--	--
OCT 17, 74	1030	3	.3	10200	--	--	--	--	--	--	--	--
			1.2	10600	--	--	--	--	--	--	--	--
JAN 29, 75	1105	3	.3	14000	--	--	--	--	--	--	--	--
			1.2	14000	--	--	--	--	--	--	--	--
APR 16, 75	1135	3	.3	18300	--	--	--	--	--	--	--	--
			1.5	18300	--	--	--	--	--	--	--	--
MAY 29, 75	1240	3	.3	18200	--	--	--	--	--	--	--	--
			1.5	18200	--	--	--	--	--	--	--	--
AUG 27, 75	1145	3	.3	24400	--	--	--	--	--	--	--	--
						LINE 89						
OCT 17, 74	1725	2	.3	10700	110.0	220.0	2000	85.0	139	490	3500	6490
JAN 29, 75	1440	2	.3	12200	110.0	250.0	2200	85.0	151	520	3800	7050
APR 16, 75	1445	2	.3	16300	160.0	350.0	3000	140.0	198	710	5300	9770
			1.2	16300	--	--	--	--	--	--	--	--

TABLE 70--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (LAB)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
						LINE 89 CONTINUED						
MAY 29, 75	0955	2	.3	17500	180.0	440.0	3300	130.0	186	860	6000	11000
AUG 27, 75	1445	2	.3	20200	230.0	470.0	3600	140.0	168	890	6400	11800
						LINE 104						
OCT 17, 74	1600	8	.3	18200	--	--	--	--	--	--	--	--
			2.0	23400	--	--	--	--	--	--	--	--
JAN 29, 75	1400	8	.3	20600	--	--	--	--	--	--	--	--
APR 16, 75	1200	8	.3	23200	--	--	--	--	--	--	--	--
			1.8	24200	--	--	--	--	--	--	--	--
MAY 28, 75	1305	8	.3	21500	--	--	--	--	--	--	--	--
AUG 27, 75	1045	8	.5	35900	280.0	800.0	7200	260.0	152	1700	13000	23300
						LINE 115						
OCT 17, 74	1500	5	.3	25500	180.0	610.0	--	200.0	155	1400	9000	16600
			1.4	26500	--	--	5100	--	--	--	--	--
JAN 29, 75	1615	5	.3	24000	180.0	550.0	4800	170.0	156	1100	8300	15200
APR 16, 75	1125	5	.3	26800	--	--	--	--	--	--	--	--
			.9	26600	--	--	--	--	--	--	--	--
MAY 28, 75	1230	5	.3	19400	190.0	490.0	4000	170.0	158	1000	7100	13000
AUG 27, 75	1540	5	.3	38600	340.0	920.0	8000	290.0	154	1800	14000	25400
			1.2	39000	--	--	--	--	--	--	--	--
						LINE 120						
OCT 17, 74	1345	1	.3	21200	--	--	--	--	--	--	--	--
			3.7	27300	--	--	--	--	--	--	--	--
JAN 29, 75	1630	1	.3	25800	--	--	--	--	--	--	--	--
			5.7	25800	--	--	--	--	--	--	--	--
APR 16, 75	1415	1	.5	22500	--	--	--	--	--	--	--	--
			3.7	22900	--	--	--	--	--	--	--	--
MAY 26, 75	1420	1	.3	23500	--	--	--	--	--	--	--	--
			3.0	23500	--	--	--	--	--	--	--	--
AUG 27, 75	1215	1	.3	40900	--	--	--	--	--	--	--	--
						LINE 133						
OCT 17, 74	1405	3	.3	24000	--	--	--	--	--	--	--	--
			1.2	24800	--	--	--	--	--	--	--	--
JAN 29, 75	1745	3	.3	20000	--	--	--	--	--	--	--	--
			1.7	20400	--	--	--	--	--	--	--	--
APR 16, 75	1450	3	.5	21700	--	--	--	--	--	--	--	--
			1.2	21800	--	--	--	--	--	--	--	--
MAY 28, 75	1455	3	.3	24400	--	--	--	--	--	--	--	--
			1.2	23600	--	--	--	--	--	--	--	--
AUG 27, 75	1325	3	.3	36600	--	--	--	--	--	--	--	--
			1.2	42600	--	--	--	--	--	--	--	--

TABLE 7C--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (LAB)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
						LINE 141						
OCT 17, 74	1455	2	.3	24900	200.0	610.0	5000	200.0	146	1300	9000	16400
			2.4	25700	160.0	660.0	5100	210.0	142	1400	9600	17200
JAN 29, 75	1700	2	.5	32500	250.0	760.0	6000	220.0	156	1500	11000	19800
			2.9	36700	290.0	940.0	7100	280.0	153	1700	13000	23400
APR 16, 75	1520	2	.5	23500	280.0	520.0	4400	210.0	190	1100	7800	14300
			2.7	23400	200.0	520.0	4000	190.0	189	950	7200	13200
MAY 26, 75	1525	2	.3	28100	260.0	780.0	6000	250.0	158	1500	11000	19900
			2.4	28700	260.0	790.0	6000	250.0	157	1600	11000	20000
AUG 27, 75	1500	2	.3	47400	490.0	1200.0	9500	370.0	159	2300	17000	30900
			2.7	49300	--	--	--	--	--	--	--	--

TABLE 70--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 15					
OCT 17, 74	1110	2	.3	10	2	--	--	1	--	--	--
JAN 29, 75	1150	2	.3	--	--	--	--	--	--	--	.5
APR 16, 75	1300	2	.3	--	--	--	--	--	--	--	.7
MAY 29, 75	1145	2	.3	--	--	--	--	--	--	--	.9
AUG 27, 75	1350	2	.3	--	--	--	--	--	--	--	.9
						LINE 54					
OCT 17, 74	1000	1	.3	0	4	--	--	1	--	--	--
OCT 17, 74	1030	3	.3	20	5	7	--	1	0	--	--
						LINE 89					
OCT 17, 74	1725	2	.3	20	5	6	--	0	0	--	--
JAN 29, 75	1440	2	.3	--	--	--	--	--	--	--	.6
APR 16, 75	1445	2	.3	--	--	--	--	--	--	--	.7
MAY 29, 75	0955	2	.3	--	--	--	--	--	--	--	.7
AUG 27, 75	1445	2	.3	--	--	--	--	--	--	--	.8
						LINE 104					
OCT 17, 74	1600	8	.3	0	4	4	--	0	0	--	--
AUG 27, 75	1045	8	.3	--	--	--	--	--	--	--	1.1
						LINE 115					
OCT 17, 74	1500	5	.3	30	2	--	--	0	--	--	--
JAN 29, 75	1615	5	.3	--	--	--	--	--	--	--	.8
MAY 28, 75	1230	5	.3	--	--	--	--	--	--	--	.6
AUG 27, 75	1540	5	.3	--	--	--	--	--	--	--	1.1
						LINE 120					
OCT 17, 74	1345	1	.3	0	4	--	--	1	--	--	--
						LINE 133					
OCT 17, 74	1405	3	.3	20	2	--	--	0	--	--	--
						LINE 141					
OCT 17, 74	1455	2	.3	0	2	3	--	1	0	--	--
JAN 29, 75	1700	2	.5	--	--	--	--	--	--	--	1.0
			2.9	--	--	--	--	--	--	--	.9
APR 16, 75	1520	2	.5	--	--	--	--	--	--	--	.9

TABLE 70--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
LINE 141 CONTINUED											
APR 16, 75	1520	2	2.7	--	--	--	--	--	--	--	.9
MAY 28, 75	1525	2	.3	--	--	--	--	--	--	--	1.0
			2.4	--	--	--	--	--	--	--	1.0
AUG 27, 75	1500	2	.3	--	--	--	--	--	--	--	1.4

TABLE 70--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	STG	DEPTH (METERS)	DIS-SOLVED LITHI-UM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BOTTOM DEPOSIT MAN-GANESE (MN) (UG/GM)	DIS-SOLVED MER-CURY (HG) (UG/L)	TOTAL MER-CURY (HG) (UG/L)	BOTTOM DEPOSIT MER-CURY (HG) (UG/GM)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
						LINE 15						
OCT 17, 74	1110	2	.3	58	55	--	--	.2	--	--	0	2200
						LINE 34						
OCT 17, 74	1000	1	.3	50	30	--	--	.2	--	--	0	1800
OCT 17, 74	1030	3	.3	42	30	33	--	.2	.4	--	0	1700
						LINE 69						
OCT 17, 74	1725	2	.3	42	33	60	--	.2	.5	--	0	1600
						LINE 104						
OCT 17, 74	1600	8	.3	67	40	35	--	.2	.4	--	0	2500
						LINE 115						
OCT 17, 74	1500	5	.3	92	70	--	--	.2	--	--	0	3200
						LINE 120						
OCT 17, 74	1345	1	.3	75	54	--	--	.2	--	--	0	2800
						LINE 133						
OCT 17, 74	1405	3	.3	83	60	--	--	.1	--	--	0	3100
						LINE 141						
OCT 17, 74	1455	2	.3	92	59	63	--	.3	.2	--	0	3100

TABLE 7D--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CYANIDE (CN) (MG/L)	BOTTOM DEPOSIT CYANIDE (CN) (UG/GM)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	BOTTOM DEPOSIT IRON (FE) (UG/GM)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	BOTTOM DEPOSIT LEAD (PB) (UG/GM)
						LINE 15					
OCT 17, 74	1110	2	.3	--	--	40	--	--	0	--	--
						LINE 54					
OCT 17, 74	1000	1	.3	--	--	10	--	--	0	--	--
OCT 17, 74	1030	3	.3	--	--	20	580	--	0	1	--
						LINE 89					
OCT 17, 74	1725	2	.3	--	--	40	400	--	2	0	--
						LINE 104					
OCT 17, 74	1600	8	.3	--	--	40	200	--	6	0	--
						LINE 115					
OCT 17, 74	1500	5	.3	--	--	70	--	--	2	--	--
						LINE 120					
OCT 17, 74	1345	1	.3	--	--	50	--	--	1	--	--
						LINE 133					
OCT 17, 74	1405	3	.3	--	--	60	--	--	0	--	--
						LINE 141					
OCT 17, 74	1455	2	.3	--	--	60	210	--	2	0	--

TABLE 7D--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	BOTTOM DEPOSIT COBALT (CO) (UG/GM)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	BOTTOM DEPOSIT COPPER (CU) (UG/GM)
						LINE 15					
OCT 17, 74	1110	2	.3	1.00	--	0	--	--	5	--	--
						LINE 54					
OCT 17, 74	1000	1	.3	.00	--	0	--	--	3	--	--
OCT 17, 74	1030	3	.3	1.00	< 10.00	0	0	--	3	4.0	--
						LINE 89					
OCT 17, 74	1725	2	.3	1.00	< 10.00	0	0	--	8	8.0	--
						LINE 104					
OCT 17, 74	1600	8	.3	1.00	< 10.00	0	0	--	6	8.0	--
						LINE 115					
OCT 17, 74	1500	5	.3	1.00	--	0	--	--	5	--	--
						LINE 120					
OCT 17, 74	1345	1	.3	1.00	--	0	--	--	5	--	--
						LINE 133					
OCT 17, 74	1405	3	.3	1.00	--	0	--	--	6	--	--
						LINE 141					
OCT 17, 74	1455	2	.3	3.00	10.00	0	0	--	8	5.0	--

TABLE 7D--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	BOTTOM DEPOSIT ZINC (ZN) (UG/GM)
						LINE 15
OCT 17, 74	1110	2	.3	40	--	--
						LINE 54
OCT 17, 74	1000	1	.3	30	--	--
OCT 17, 74	1030	3	.3	30	20	--
						LINE 89
OCT 17, 74	1725	2	.3	20	20	--
						LINE 104
OCT 17, 74	1600	8	.3	30	30	--
						LINE 115
OCT 17, 74	1500	5	.3	30	--	--
						LINE 120
OCT 17, 74	1345	1	.3	30	--	--
						LINE 133
OCT 17, 74	1405	3	.3	40	--	--
						LINE 141
OCT 17, 74	1455	2	.3	50	30	--

TABLE 7E--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL PCB (UG/L)	BOTTOM DEPOSIT PCB (UG/KG)	TOTAL 2,4-D (UG/L)	BOTTOM DEPOSIT 2,4-D (UG/KG)	TOTAL 2,4,5-T (UG/L)	BOTTOM DEPOSIT 2,4,5-T (UG/KG)	TOTAL SILVEX (UG/L)	BOTTOM DEPOSIT SILVEX (UG/KG)
						LINE 15					
OCT 17, 74	1110	2	.3	.0	--	.00	--	.00	--	.00	--
						LINE 44					
OCT 17, 74	0925	2	.3	.0	--	.00	--	.00	--	.00	--
						LINE 54					
OCT 17, 74	1000	1	.3	.0	--	.00	--	.00	--	.00	--
OCT 17, 74	1030	3	.3	.0	--	.00	--	.00	--	.00	--
						LINE 89					
OCT 17, 74	1725	7	.3	.0	--	.00	--	.00	--	.00	--
			1.5	--	.0	--	--	--	--	--	--
						LINE 104					
OCT 17, 74	1600	8	.3	.0	--	.00	--	.00	--	.00	--
			2.0	--	.0	--	--	--	--	--	--
						LINE 115					
OCT 17, 74	1500	5	.3	.0	--	.00	--	.00	--	.00	--
			1.4	--	.0	--	--	--	--	--	--
						LINE 120					
OCT 17, 74	1345	1	.3	.0	--	.00	--	.00	--	.00	--
						LINE 133					
OCT 17, 74	1405	3	.3	.0	--	.00	--	.00	--	.00	--
						LINE 141					
OCT 17, 74	1455	2	.3	.0	--	.00	--	.00	--	.00	--

TABLE 7E--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL TOXA-PHENE (UG/L)	BOTTOM DEPOSIT TOXA-PHENE (UG/KG)	TOTAL ETHION (UG/L)	BOTTOM DEPOSIT ETHION (UG/KG)	TOTAL METHYL TRI-THION (UG/L)	BOTTOM DEPOSIT METHYL TRI-THION (UG/KG)	TOTAL TRI-THION (UG/L)	BOTTOM DEPOSIT TRI-THION (UG/KG)
						LINE 15					
OCT 17, 74	1110	2	.3	.0	--	--	--	--	--	--	--
						LINE 44					
OCT 17, 74	0925	2	.3	.0	--	--	--	--	--	--	--
						LINE 54					
OCT 17, 74	1000	1	.3	.0	--	--	--	--	--	--	--
OCT 17, 74	1030	3	.3	.0	--	--	--	--	--	--	--
						LINE 89					
OCT 17, 74	1725	2	.3	.0	--	--	--	--	--	--	--
			1.5	--	0.	--	--	--	--	--	--
						LINE 104					
OCT 17, 74	1600	8	.3	.0	--	--	--	--	--	--	--
			2.0	--	0.	--	--	--	--	--	--
						LINE 115					
OCT 17, 74	1500	5	.3	.0	--	--	--	--	--	--	--
			1.4	--	0.	--	--	--	--	--	--
						LINE 120					
OCT 17, 74	1345	1	.3	.0	--	--	--	--	--	--	--
						LINE 133					
OCT 17, 74	1405	3	.3	.0	--	--	--	--	--	--	--
						LINE 141					
OCT 17, 74	1455	2	.3	.0	--	--	--	--	--	--	--

TABLE 7E--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR EPOXIDE (UG/KG)	TOTAL LINDANE (UG/L)	BOTTOM DEPOSIT LINDANE (UG/KG)	TOTAL PARA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL DIAZ-INON (UG/L)
						LINE 15					
OCT 17, 74	1110	2	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 44					
OCT 17, 74	0925	2	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 54					
OCT 17, 74	1000	1	.3	.00	--	.00	--	.00	.00	.00	.00
OCT 17, 74	1030	3	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 89					
OCT 17, 74	1725	2	.3	.00	--	.00	--	.00	.00	.00	.00
			1.5	--	.0	--	.0	--	--	--	--
						LINE 104					
OCT 17, 74	1600	8	.3	.00	--	.00	--	.00	.00	.00	.00
			2.0	--	.0	--	.0	--	--	--	--
						LINE 115					
OCT 17, 74	1500	5	.3	.00	--	.00	--	.00	.00	.00	.00
			1.4	--	.0	--	.0	--	--	--	--
						LINE 120					
OCT 17, 74	1345	1	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 133					
OCT 17, 74	1405	3	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 141					
OCT 17, 74	1455	2	.3	.00	--	.00	--	.00	.00	.00	.00

TABLE 7L--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL ALDRIN (UG/L)	BOTTOM DEPOSIT ALDRIN (UG/KG)	TOTAL CHLOR-DANE (UG/L)	BOTTOM DEPOSIT CHLOR-DANE (UG/KG)	TOTAL DDD (UG/L)	BOTTOM DEPOSIT DDD (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDE (UG/KG)
						LINE 15					
OCT 17, 74	1110	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 44					
OCT 17, 74	0925	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 54					
OCT 17, 74	1000	1	.3	.00	--	.0	--	.00	--	.00	--
OCT 17, 74	1030	3	.3	.00	--	.0	--	.00	--	.00	--
						LINE 89					
OCT 17, 74	1725	2	.3	.00	--	.0	--	.00	--	.00	--
			1.5	--	.0	--	.0	--	.0	--	.0
						LINE 104					
OCT 17, 74	1600	8	.3	.00	--	.0	--	.00	--	.00	--
			2.0	--	.0	--	.0	--	.0	--	.0
						LINE 115					
OCT 17, 74	1500	5	.3	.00	--	.0	--	.00	--	.00	--
			1.4	--	.0	--	.0	--	.0	--	.0
						LINE 120					
OCT 17, 74	1345	1	.3	.00	--	.0	--	.00	--	.00	--
						LINE 133					
OCT 17, 74	1405	3	.3	.00	--	.0	--	.00	--	.00	--
						LINE 141					
OCT 17, 74	1455	2	.3	.00	--	.0	--	.00	--	.00	--

TABLE 7E--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL DDT (UG/L)	BOTTOM DEPOSIT DDT (UG/KG)	TOTAL DIEL-DRIN (UG/L)	BOTTOM DEPOSIT DIEL-DRIN (UG/KG)	TOTAL ENDRIN (UG/L)	BOTTOM DEPOSIT ENDRIN (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR (UG/KG)
						LINE 15					
OCT 17, 74	1110	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 44					
OCT 17, 74	0925	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 64					
OCT 17, 74	1000	1	.3	.00	--	.00	--	.00	--	.00	--
OCT 17, 74	1030	3	.3	.00	--	.00	--	.00	--	.00	--
						LINE 69					
OCT 17, 74	1725	2	.3	.00	--	.00	--	.00	--	.00	--
			1.5	--	.0	--	.0	--	.0	--	.0
						LINE 104					
OCT 17, 74	1600	8	.3	.00	--	.00	--	.00	--	.00	--
			2.0	--	.0	--	.0	--	.0	--	.0
						LINE 115					
OCT 17, 74	1500	5	.3	.00	--	.00	--	.00	--	.00	--
			1.4	--	.0	--	.0	--	.0	--	.0
						LINE 120					
OCT 17, 74	1345	1	.3	.00	--	.00	--	.00	--	.00	--
						LINE 133					
OCT 17, 74	1405	3	.3	.00	--	.00	--	.00	--	.00	--
						LINE 141					
OCT 17, 74	1455	2	.3	.00	--	.00	--	.00	--	.00	--

TABLE 7F--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
						LINE 15	
OCT 17, 74	1110	2	.3	0	0	0	--
JAN 29, 75	1150	2	.3	--	--	--	2.40
APR 16, 75	1300	2	.3	124	0	0	.50
MAY 29, 75	1145	2	.3	--	0	138	2.10
AUG 27, 75	1350	2	.3	2	0	2	.60
						LINE 44	
OCT 17, 74	0925	2	.3	--	50	36	--
JAN 29, 75	0940	2	.3	--	--	--	.70
APR 16, 75	1035	2	.3	100	0	16	.40
MAY 29, 75	1355	2	.3	--	0	54	1.50
AUG 27, 75	1055	2	.3	--	14	9	1.20
						LINE 54	
OCT 17, 74	1000	1	.3	6	0	3	--
JAN 29, 75	1030	1	.3	--	--	--	.90
APR 16, 75	1110	1	.3	88	2	7	--
MAY 29, 75	1315	1	.3	--	10	80	2.50
AUG 27, 75	1125	1	.3	2	0	0	.30
OCT 17, 74	1030	3	.3	12	0	4	--
JAN 29, 75	1105	3	.3	--	--	--	.30
APR 16, 75	1135	3	.3	30	0	12	.10
MAY 29, 75	1240	3	.3	--	0	520	.40
AUG 27, 75	1145	3	.3	--	6	13	.90
						LINE 89	
OCT 17, 74	1725	2	.3	8	0	0	--
JAN 29, 75	1440	2	.3	--	--	--	1.00
APR 16, 75	1445	2	.3	30	4	0	.30
MAY 29, 75	0955	2	.3	--	0	20	1.30
AUG 27, 75	1445	2	.3	0	0	6	3.60
						LINE 104	
OCT 17, 74	1600	8	.3	0	0	0	--
JAN 29, 75	1400	8	.3	--	--	--	.00
APR 16, 75	1200	8	.3	57	12	0	--

TABLE 7F--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
				LINE 104 CONTINUED			
MAY 28, 75	1305	8	.3	--	0	22	1.10
AUG 27, 75	1045	8	.3	0	0	1	1.00
				LINE 115			
OCT 17, 74	1500	5	.3	1	1	0	--
JAN 29, 75	1615	5	.3	--	--	--	.20
APR 16, 75	1125	5	.3	0	0	0	.30
MAY 28, 75	1230	5	.3	--	0	12	2.30
AUG 27, 75	1540	5	.3	0	0	0	4.10
				LINE 120			
OCT 17, 74	1345	1	.3	1	0	0	--
JAN 29, 75	1830	1	.3	--	--	--	.00
APR 16, 75	1415	1	.5	4	0	0	.40
MAY 28, 75	1420	1	.3	6	0	4	2.10
AUG 27, 75	1215	1	.3	1	0	5	2.10
				LINE 133			
JAN 29, 75	1745	3	.3	--	--	--	.40
APR 16, 75	1450	3	.5	--	--	--	1.70
MAY 28, 75	1455	3	.3	--	0	100	1.60
AUG 27, 75	1325	3	.3	0	0	1	.30
				LINE 141			
OCT 17, 74	1455	2	.3	0	0	0	--
JAN 29, 75	1700	2	.5	--	--	--	.20
APR 16, 75	1520	2	.5	1	0	0	.20
MAY 28, 75	1525	2	.3	--	9	28	--
AUG 27, 75	1500	2	.3	11	7	3	4.20

Nueces Estuary

The Nueces estuary covers an area of about 200 square miles (518 km^2) and consists of the tidal parts of the Nueces River and other tributaries, Nueces Bay, Tule Lake Channel, Corpus Christi Bay, part of Redfish Bay, Corpus Christi Ship Channel, Aransas Pass, and parts of the Intracoastal Waterway (Figure 9). Water depth at mlw is less than 13 feet (4.0 m) in Corpus Christi Bay; less than 3 feet (0.9 m) in Nueces Bay; more than 40 feet (12.2 m) in Aransas Pass, Corpus Christi Ship Channel, and Tule Lake Channel; and about 15 feet (4.6 m) in the Intracoastal Waterway. A part of Redfish Bay is about 10 feet (3.0 m) deep, but about one-fourth of it is only 1 foot (0.3 m) deep (mlw).

Water-quality data (Table 8) were collected during October 1974 and January, April, June, and August 1975.

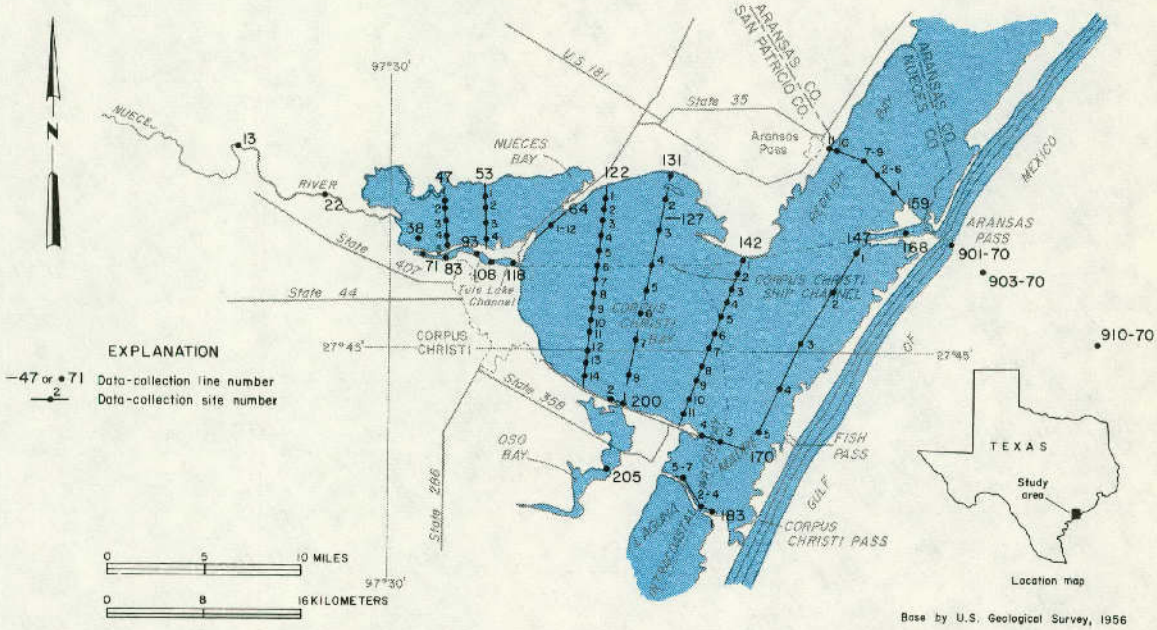

Figure 9.—Data-Collection Sites in the Nueces Estuary

TABLE 8A--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
						LINE 22				
OCT 24, 74	1340	2	.3	27000	24.2	8.1	7.0	91	35.	47
			1.5	28000	24.1	8.1	6.7	87	40.	--
			2.1	50000	23.9	7.9	3.8	54	70.	--
JAN 30, 75	1220	2	.3	5000	21.7	8.3	8.2	93	--	39
			1.8	5700	21.7	8.2	7.7	89	--	--
APR 17, 75	1010	2	.3	4200	23.4	8.6	9.7	114	--	42
			.9	4200	23.4	8.6	9.8	115	--	--
			1.5	4200	23.4	8.6	9.5	112	--	--
			1.8	12000	23.3	8.4	5.5	65	--	--
AUG 26, 75	1100	2	.3	1700	28.2	8.2	6.5	82	20.	43
			2.1	1700	28.2	8.1	5.8	73	45.	--
						LINE 38				
OCT 24, 74	1355	2	.3	6900	24.4	8.5	12.4	149	50.	36
			.9	16000	23.4	8.1	8.4	102	--	--
			1.2	24000	23.3	8.0	5.6	70	50.	--
JAN 30, 75	1245	2	.3	11000	22.4	8.5	9.2	107	--	21
			.9	11000	22.4	8.4	9.1	106	--	--
APR 17, 75	1045	2	.3	20000	23.6	8.4	8.7	101	--	19
			.9	20000	23.5	8.4	8.6	100	--	--
AUG 26, 75	1110	2	.3	2500	28.0	8.4	9.1	117	60.	30
			1.2	2500	27.9	8.4	8.6	110	85.	--
						LINE 47				
OCT 24, 74	1305	2	.3	33000	23.9	8.1	7.9	105	20.	56
			1.2	33000	23.5	8.1	7.3	96	50.	--
AUG 26, 75	1040	2	.3	19000	27.0	8.2	6.2	82	60.	25
			1.2	20000	26.9	8.1	4.9	65	145.	--
						LINE 53				
OCT 24, 74	1245	2	.3	34000	24.0	8.1	6.5	87	20.	69
			1.5	40000	24.1	8.0	5.0	68	70.	--
JAN 30, 75	1115	2	.3	38000	21.4	8.1	7.3	95	--	25
			1.2	38000	21.4	8.1	8.1	105	--	--
APR 17, 75	0930	2	.3	43000	22.7	8.1	7.4	100	--	15
			1.2	43000	22.7	8.1	7.4	100	--	--
AUG 28, 75	1020	2	.3	33000	27.3	8.2	5.4	76	30.	43
			1.2	35000	27.2	8.3	5.4	76	70.	--
OCT 24, 74	1235	3	.3	38000	23.9	8.1	7.8	105	10.	--
			1.7	40000	23.7	8.0	6.7	92	110.	--
JAN 30, 75	1105	3	.3	38000	21.2	8.2	7.4	96	--	28
			1.2	36000	21.3	8.2	7.9	100	--	--
AUG 28, 75	1015	3	.3	36000	27.4	8.3	6.0	86	30.	44
			1.2	36000	27.2	8.3	5.9	83	35.	--
OCT 24, 74	1215	4	.3	40000	24.0	8.1	6.0	82	20.	58
			1.4	41000	24.4	8.0	5.5	75	110.	--

TABLE 8A--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 53 CONTINUED						
JAN 30, 75	1040	4	.3	36000	21.0	8.2	7.6	97	--	48
			.9	36000	21.0	8.1	7.5	96	--	--
APR 17, 75	0915	4	.3	43000	22.8	8.1	6.8	93	--	26
			.9	43000	22.8	8.1	7.1	97	--	--
AUG 26, 75	1000	4	.3	37000	28.0	8.3	5.5	80	40.	37
			1.2	38000	28.2	8.2	3.4	50	145.	--
				LINE 64						
OCT 24, 74	1125	6	.3	45000	23.4	8.1	7.4	103	20.	61
			1.1	45000	23.3	8.1	7.4	103	15.	--
JAN 30, 75	1111	6	.3	38000	21.8	8.1	7.9	103	--	43
			1.5	38000	21.4	7.9	7.3	95	--	--
APR 17, 75	1125	6	.3	43000	23.1	8.1	7.7	105	--	30
			1.2	43000	23.1	8.1	7.7	105	--	--
			2.1	43000	23.2	8.1	7.5	103	--	--
JUN 05, 75	1140	6	.3	22000	28.0	--	7.4	101	--	42
			.9	22000	28.0	--	7.2	99	--	--
			2.1	22000	28.0	--	7.4	101	--	--
AUG 26, 75	1150	6	.3	44000	28.8	8.2	5.7	89	25.	51
			2.1	44000	28.5	8.2	3.7	57	70.	--
JAN 30, 75	1415	9	.3	36000	21.5	8.2	8.4	108	--	48
			1.5	38000	21.4	8.2	8.1	105	--	--
			3.0	38000	21.2	8.2	7.7	100	--	--
			5.2	38000	21.2	8.2	7.7	100	--	--
APR 17, 75	1135	9	.3	45000	23.1	8.2	7.3	100	--	30
			1.5	45000	23.1	8.2	7.3	100	--	--
			3.0	45000	23.0	8.2	7.3	100	--	--
			6.1	43000	23.0	8.2	7.1	97	--	--
JUN 05, 75	1150	9	.3	24000	28.0	--	6.4	88	--	43
			1.5	25000	28.0	--	6.5	90	--	--
			3.0	33000	28.0	--	4.1	59	--	--
			5.8	40000	28.0	--	2.6	38	--	--
AUG 26, 75	1200	9	.3	43000	29.0	8.2	5.8	89	15.	48
			3.0	45000	28.7	8.1	2.8	43	30.	--
			6.1	45000	28.9	8.1	1.6	25	150.	--
OCT 24, 74	1145	12	.3	44000	23.4	8.1	6.6	92	20.	72
			1.5	44000	23.2	8.0	5.1	70	25.	--
			3.0	45000	23.1	8.0	4.8	66	20.	--
			5.2	45000	23.2	8.1	5.3	73	65.	--
JAN 30, 75	1420	12	.3	38000	21.4	8.2	8.2	105	--	53
			1.5	38000	21.1	8.2	7.7	100	--	--
			3.0	38000	20.8	8.2	7.4	96	--	--
			4.6	38000	20.8	8.2	7.4	96	--	--
APR 17, 75	1150	12	.3	45000	23.3	8.1	7.0	96	--	29
			1.5	45000	23.2	8.1	6.9	95	--	--
			3.0	45000	23.2	8.1	6.9	95	--	--
			4.9	45000	23.2	8.1	6.8	93	--	--
JUN 05, 75	1200	12	.3	23000	28.0	--	6.5	89	--	36
			1.5	23000	27.9	--	6.2	85	--	--
			3.0	24000	27.6	--	5.8	78	--	--
			4.6	26000	27.6	--	5.5	75	--	--
AUG 26, 75	1210	12	.3	41000	28.9	8.2	6.0	91	25.	45

TABLE 8A--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 64 CONTINUED					
AUG 28, 75	1210	12	2.4	43000	28.5	8.1	3.7	56	40.	--
			4.9	43000	28.5	8.1	2.6	39	140.	--
					LINE 71					
OCT 24, 74	1520	2	.3	44000	24.5	8.0	5.7	81	0.	188
			3.0	44000	24.5	8.0	5.6	80	0.	--
			6.1	44000	24.5	8.0	5.3	76	0.	--
			9.1	44000	24.4	7.9	4.7	66	0.	--
			10.7	44000	24.3	7.9	4.6	65	0.	--
			13.1	45000	24.3	7.7	.0	0	10.	--
JAN 30, 75	1500	2	.3	41000	19.5	8.1	7.2	90	--	131
			1.5	41000	19.4	8.1	7.1	89	--	--
			3.0	41000	19.4	8.1	7.1	89	--	--
			6.1	41000	19.2	8.1	6.7	84	--	--
			9.1	41000	19.1	8.1	6.	81	--	--
			13.1	41000	18.7	7.9	5.3	65	--	--
APR 17, 75	1350	2	.2	43000	23.4	8.2	10.2	140	--	145
			3.0	43000	23.3	8.2	9.5	130	--	--
			6.1	43000	22.9	8.2	9.0	123	--	--
			9.1	43000	22.9	8.2	8.1	111	--	--
			12.2	43000	22.8	8.1	7.5	103	--	--
JUN 05, 75	1000	2	.3	41000	28.0	--	5.7	84	--	112
			3.0	41000	28.0	--	5.7	84	--	--
			6.1	41000	28.0	--	5.7	84	--	--
			9.1	41000	28.0	--	5.7	84	--	--
			12.2	41000	28.0	--	5.6	84	--	--
					LINE 83					
JAN 30, 75	1520	2	.3	41000	19.2	8.1	6.7	84	--	--
			3.0	41000	19.2	8.1	6.6	82	--	--
			6.1	41000	19.1	8.1	6.5	81	--	--
			9.1	41000	19.0	8.1	6.3	79	--	--
			12.2	41000	18.9	8.1	6.1	76	--	--
APR 17, 75	1425	2	.3	37000	23.4	8.1	8.4	111	--	164
			3.0	37000	23.1	8.1	8.3	109	--	--
			6.1	37000	22.8	8.1	7.7	101	--	--
			9.1	38000	22.8	8.1	7.6	101	--	--
			12.2	38000	22.6	8.1	6.8	89	--	--
JUN 05, 75	1015	2	.3	40000	28.0	--	6.5	96	--	110
			3.0	40000	28.0	--	6.1	90	--	--
			6.1	40000	28.0	--	5.7	84	--	--
			9.1	40000	27.9	--	4.3	63	--	--
			12.2	40000	27.9	--	2.9	43	--	--
					LINE 108					
OCT 24, 74	1550	2	.3	44000	24.2	8.0	6.0	85	5.	127
			3.0	44000	24.1	8.0	5.6	79	5.	--
			4.6	44000	23.9	8.0	4.5	63	--	--
			6.1	44000	23.8	7.9	3.6	51	5.	--
			9.1	44000	23.6	8.0	3.6	50	10.	--
			12.2	45000	23.4	8.0	3.7	51	45.	--
JAN 30, 75	1545	2	.3	41000	19.0	8.2	7.1	89	--	91
			1.5	41000	18.9	8.2	7.1	89	--	--
			3.0	41000	19.0	8.2	7.0	88	--	--
			6.1	41000	18.6	8.2	6.8	84	--	--
			9.1	41000	18.5	8.1	6.7	83	--	--
			12.2	41000	18.6	8.1	6.2	77	--	--

TABLE 8A--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
					LINE 108 CONTINUED					
APR 17, 75	1445	2	.3	42000	23.8	8.0	7.3	100	--	128
			3.0	42000	22.7	8.0	7.2	97	--	--
			6.1	43000	22.3	8.0	6.5	89	--	--
			9.1	43000	22.4	8.0	6.3	85	--	--
			12.2	42000	22.5	8.0	6.3	85	--	--
JUN 05, 75	1035	2	.3	36000	27.5	--	6.7	96	--	140
			3.0	40000	27.3	--	4.8	70	--	--
			6.1	40000	27.2	--	3.6	52	--	--
			10.4	41000	27.0	--	2.7	40	--	--
AUG 26, 75	1450	2	.3	46000	30.2	7.9	5.7	90	10.	119
			3.0	47000	30.2	7.6	3.1	50	5.	--
			6.1	47000	29.9	7.8	1.6	26	5.	--
			12.2	50000	29.9	7.9	1.2	19	20.	--
					LINE 118					
JAN 30, 75	1610	2	.3	41000	20.7	8.2	7.9	101	--	86
			3.0	41000	20.3	8.2	7.7	99	--	--
			6.1	41000	19.0	8.2	7.1	89	--	--
			12.2	41000	18.7	8.2	7.0	86	--	--
APR 17, 75	1505	2	.3	45000	22.6	8.0	7.3	100	--	--
			3.0	45000	22.4	8.0	7.0	95	--	--
			6.1	45000	22.4	8.0	6.5	88	--	--
			9.1	45000	22.7	8.1	6.8	93	--	--
			11.6	45000	22.7	7.9	6.8	93	--	--
JUN 05, 75	1050	2	.3	36000	27.8	--	6.6	96	--	130
			3.0	40000	27.8	--	5.1	75	--	--
			6.1	40000	27.5	--	4.8	71	--	--
			9.1	40000	27.4	--	5.8	84	--	--
			12.2	40000	27.0	--	2.8	41	--	--
AUG 26, 75	1515	2	.3	45000	29.9	8.0	5.9	94	10.	117
			3.0	46000	29.5	7.9	2.9	45	5.	--
			6.1	47000	29.5	7.9	2.1	33	10.	--
			12.2	50000	29.5	7.9	1.6	26	70.	--
					LINE 122					
OCT 24, 74	1100	2	.3	45000	23.6	8.1	7.3	101	10.	100
			1.5	45000	23.5	8.1	7.2	100	10.	--
			4.1	45000	23.4	8.1	6.5	90	130.	--
JAN 30, 75	1515	2	.5	41000	20.8	8.0	12.7	165	10.	72
			1.5	41000	20.9	8.0	14.3	186	20.	--
			3.2	41000	21.0	8.0	13.5	175	20.	--
JUN 05, 75	1015	2	.6	33000	27.0	8.4	7.2	101	--	--
			3.0	43000	27.0	8.3	4.2	62	80.	--
AUG 26, 75	1230	2	.3	46000	28.9	8.3	6.3	98	10.	79
			2.7	46000	28.7	8.2	4.4	69	40.	--
OCT 24, 74	1050	4	.3	45000	23.5	8.1	7.2	100	10.	100
			1.5	45000	23.4	8.1	7.2	100	10.	--
			4.3	46000	23.4	8.1	6.4	89	40.	--
AUG 26, 75	1245	4	.3	46000	28.9	8.2	6.1	95	25.	65
			3.0	46000	28.5	8.2	5.5	85	25.	--
			6.1	48000	28.9	8.1	3.6	56	50.	--
			10.7	50000	29.0	8.1	2.5	40	65.	--
OCT 24, 74	1030	6	.3	45000	23.3	8.1	7.3	101	15.	81
			1.5	45000	23.3	8.1	7.4	103	15.	--

TABLE 8A--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
				LINE 122 CONTINUED						
OCT 24, 74	1030	6	3.0	46000	23.3	8.1	7.2	100	10.	--
			6.1	46000	23.4	8.1	7.2	100	10.	--
			11.0	46000	23.4	8.1	7.2	100	45.	--
JAN 30, 75	1455	6	.5	42000	20.5	8.0	11.0	143	10.	92
			6.1	42000	20.4	8.0	11.5	149	15.	--
			12.2	41000	21.1	8.0	8.6	112	50.	--
JUN 05, 75	1000	6	.6	41000	27.0	8.4	6.9	101	25.	--
			6.1	42000	27.0	8.4	6.0	88	--	--
			12.2	43000	27.0	8.4	5.7	84	55.	--
AUG 28, 75	1300	6	.3	46000	29.0	8.1	5.6	88	10.	71
			4.0	46000	28.6	8.0	3.5	54	50.	--
OCT 24, 74	1010	8	.3	46000	22.3	8.1	7.3	99	15.	84
			1.5	46000	22.3	8.1	7.2	97	10.	--
			4.3	46000	22.2	8.1	6.8	92	60.	--
AUG 28, 75	1305	8	.3	46000	28.7	8.1	5.5	86	10.	66
			2.1	46000	28.7	8.1	4.5	70	30.	--
OCT 24, 74	1000	10	.3	46000	23.3	8.1	7.2	99	20.	82
			1.5	46000	23.3	8.1	7.1	97	20.	--
			3.0	46000	23.3	8.1	6.9	95	20.	--
			3.5	46000	23.2	8.1	5.8	79	30.	--
AUG 28, 75	1315	10	.5	46000	28.8	8.0	5.7	89	10.	81
			3.7	46000	28.6	8.0	4.5	69	60.	--
OCT 24, 74	0940	12	.3	44000	23.3	8.1	7.0	97	20.	94
			1.5	44000	23.2	8.1	6.8	93	25.	--
			3.8	44000	23.2	8.1	6.4	88	50.	--
JAN 30, 75	1440	12	.5	44000	21.0	8.0	11.9	159	10.	107
			1.5	44000	21.0	8.0	11.7	156	10.	--
			3.0	44000	27.0	8.0	7.7	104	10.	--
JUN 05, 75	0945	12	.6	42000	27.0	8.3	6.3	93	30.	--
			3.0	42000	27.0	8.3	5.7	84	30.	--
AUG 28, 75	1325	12	.3	46000	29.0	8.1	5.9	92	10.	88
			3.4	46000	28.9	8.1	5.3	83	50.	--
OCT 24, 74	0930	14	.3	44000	23.5	8.1	6.8	94	20.	91
			1.5	44000	23.5	8.1	6.7	93	20.	--
			3.0	44000	23.4	8.1	6.5	90	15.	--
			4.0	44000	23.4	8.1	6.4	89	50.	--
AUG 28, 75	1335	14	.3	46000	29.0	8.1	5.9	92	10.	89
			3.0	46000	28.9	8.1	5.3	83	50.	--
				LINE 127						
OCT 24, 74	0945	2	.3	44000	23.0	--	6.8	93	15.	114
			1.5	44000	23.0	--	6.8	93	20.	--
			3.0	44000	23.0	--	6.7	92	15.	--
			4.1	44000	23.0	--	5.8	79	50.	--
OCT 24, 74	0925	4	.3	46000	23.5	--	6.6	92	5.	134
			1.5	46000	23.0	--	6.8	93	5.	--
			3.0	46000	23.0	--	6.6	90	10.	--
			6.1	46000	23.0	--	6.6	90	15.	--
			9.1	46000	23.0	--	6.5	89	5.	--
			12.8	46000	23.0	--	6.4	88	5.	--
OCT 24, 74	0910	6	.3	46000	23.0	--	6.5	89	25.	74
			1.5	44000	23.0	--	6.5	89	35.	--

TABLE 8A--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 127 CONTINUED						
OCT 24, 74	0910	6	3.0	44000	23.0	--	6.4	88	50.	--
			4.6	44000	23.0	--	6.2	85	105.	--
OCT 24, 74	0840	8	.3	44000	23.0	--	6.4	88	25.	61
			1.5	44000	23.0	--	6.5	89	30.	--
			3.0	44000	23.0	--	6.6	90	15.	--
			4.3	44000	23.0	--	6.4	88	20.	--
				LINE 131						
OCT 24, 74	0955	2	.3	44000	23.0	--	7.1	97	0.	135
			1.5	44000	23.0	--	7.0	96	20.	--
			3.0	44000	23.0	--	6.9	95	30.	--
			6.1	44000	23.0	--	6.4	88	10.	--
			9.1	44000	23.0	--	5.2	71	10.	--
			12.5	45000	23.0	--	3.1	42	10.	--
JAN 30, 75	1535	2	.3	41000	20.3	8.2	12.0	154	10.	130
			6.1	43000	19.9	8.1	12.2	156	80.	--
			12.5	43000	20.9	7.9	6.7	91	10.	--
APR 17, 75	1400	2	.3	40000	24.5	--	8.3	115	25.	--
			12.2	40000	23.0	--	7.7	104	15.	--
JUN 05, 75	1045	2	.3	36000	27.0	8.3	6.9	97	25.	--
			6.1	43000	27.0	8.3	5.7	84	50.	--
			12.2	43000	26.5	8.3	4.7	69	50.	--
				LINE 142						
OCT 24, 74	1030	2	.3	45000	23.5	--	6.6	92	10.	160
			1.5	45000	23.0	--	6.6	90	10.	--
			3.4	46000	23.0	--	6.6	90	35.	--
JAN 30, 75	1400	2	.5	42000	20.9	8.0	9.2	121	10.	111
			1.5	42000	21.0	8.0	9.2	121	15.	--
			2.7	41000	22.0	8.0	7.7	101	20.	--
APR 17, 75	1330	2	.6	42000	22.8	--	8.4	115	30.	--
			3.0	42000	23.0	--	8.0	110	45.	--
AUG 26, 75	1325	2	.3	47000	29.0	8.3	7.3	114	10.	133
			1.5	47000	29.0	8.3	6.8	106	10.	--
			4.0	49000	28.7	8.2	4.4	70	30.	--
OCT 24, 74	1040	4	.3	47000	23.0	--	6.5	90	0.	124
			1.5	47000	23.0	--	6.6	92	20.	--
			3.0	47000	23.0	--	6.5	90	15.	--
			4.4	47000	23.0	--	6.3	88	150.	--
AUG 26, 75	1310	4	.3	49000	29.9	8.3	7.1	113	10.	179
			1.5	49000	28.8	8.3	6.9	110	10.	--
			4.0	49000	28.8	8.1	2.4	38	35.	--
OCT 24, 74	1050	6	.3	46000	23.0	--	6.6	90	5.	135
			1.5	46000	23.0	--	6.8	93	15.	--
			3.0	46000	23.0	--	6.7	92	15.	--
			4.6	46000	23.0	--	6.0	82	170.	--
APR 17, 75	1310	6	.5	42000	22.8	--	8.0	110	30.	74
			3.8	42000	23.0	--	7.9	108	60.	--
AUG 26, 75	1255	6	.3	47000	28.8	8.3	6.7	105	20.	110
			1.5	47000	28.8	8.3	6.3	98	15.	--
			4.0	47000	28.5	8.2	6.1	94	20.	--
OCT 24, 74	1105	8	.3	45000	23.0	--	7.0	96	10.	119

TABLE 8A--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 142 CONTINUED						
OCT 24, 74	1105	8	1.5	46000	23.0	--	6.9	95	10.	--
			3.0	46000	23.0	--	6.6	90	5.	--
			4.3	46000	23.0	--	6.4	88	20.	--
JAN 30, 75	1335	8	.5	41000	20.5	7.9	5.7	73	0.	180
			1.5	41000	20.2	7.9	7.5	95	10.	--
			4.1	41000	20.8	7.9	6.6	86	30.	--
APR 17, 75	1305	8	.5	42000	23.9	--	7.9	110	10.	82
			3.7	42000	24.0	--	7.6	105	20.	--
AUG 28, 75	1245	8	.3	47000	28.6	8.3	7.2	113	5.	128
			1.5	47000	28.8	8.3	7.1	111	5.	--
			4.0	47000	28.7	8.3	6.5	102	10.	--
OCT 24, 74	1120	10	.3	44000	24.0	--	6.7	94	5.	119
			1.5	44000	23.5	--	6.6	92	10.	--
			3.0	45000	23.5	--	6.6	92	10.	--
			4.3	46000	23.5	--	6.1	85	30.	--
JAN 30, 75	1330	10	.3	36000	21.1	8.0	7.4	95	5.	150
			1.5	36000	21.6	8.0	7.4	95	10.	--
			4.0	36000	23.1	8.1	6.9	91	10.	--
APR 17, 75	1300	10	.5	42000	22.9	--	7.6	104	10.	--
			3.7	42000	23.0	--	7.5	103	10.	168
				LINE 147						
OCT 24, 74	1250	1	.3	44000	23.5	--	6.9	96	10.	124
			1.5	44000	23.5	--	6.8	94	15.	--
			2.9	45000	23.5	--	5.8	81	40.	--
JAN 30, 75	1040	1	.3	46000	19.5	8.0	6.5	83	10.	120
			1.5	46000	19.5	8.0	6.7	86	10.	--
			2.6	46000	19.9	8.1	6.5	84	15.	--
APR 17, 75	1015	1	.5	40000	21.6	--	7.1	93	30.	48
			2.1	40000	21.6	--	7.1	93	40.	--
OCT 24, 74	1240	2	.3	45000	23.0	--	6.8	93	10.	175
			1.5	46000	23.0	--	6.8	93	20.	--
			3.0	46000	23.0	--	6.4	88	20.	--
			4.1	46000	23.0	--	6.2	85	40.	--
JAN 30, 75	1055	2	.3	43000	19.5	8.0	7.0	89	10.	144
			1.5	43000	19.5	8.0	7.1	90	10.	--
			3.4	43000	19.9	8.0	6.5	83	10.	--
APR 17, 75	1035	2	.3	40000	21.9	--	7.2	95	15.	87
			2.4	40000	21.8	--	7.1	93	20.	--
AUG 28, 75	1000	2	.3	47000	28.2	8.4	7.4	112	5.	195
			1.5	47000	28.1	8.3	6.4	97	20.	--
			3.7	50000	28.8	8.0	.5	8	25.	--
OCT 24, 74	1230	3	.3	46000	23.5	--	6.6	92	10.	--
			1.5	46000	23.5	--	6.5	90	15.	--
			3.7	47000	23.0	--	5.5	76	35.	--
JAN 30, 75	1110	3	.3	41000	19.6	8.0	7.5	95	10.	153
			1.5	41000	19.6	8.0	7.4	94	10.	--
			3.0	41000	19.9	8.0	7.5	95	10.	--
APR 17, 75	1040	3	.5	42000	22.0	--	7.0	93	10.	85
			2.7	42000	22.0	--	6.8	91	10.	--
AUG 28, 75	1015	3	.3	47000	28.5	8.3	6.9	105	30.	126

TABLE 8A--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 147 CONTINUED					
AUG 28, 75	1015	3	1.5	47000	28.5	8.3	6.5	98	25.	--
			3.4	47000	28.2	8.3	6.0	91	30.	--
OCT 24, 74	1210	4	.3	46000	23.5	--	6.8	94	10.	135
			1.5	46000	23.0	--	6.8	93	15.	--
			3.0	46000	23.0	--	6.3	86	10.	--
			4.1	46000	23.0	--	6.7	92	40.	--
JAN 30, 75	1130	4	.3	41000	19.9	8.0	7.5	95	10.	--
			1.5	41000	19.9	8.0	7.4	94	10.	--
			3.8	44000	20.2	8.1	6.9	90	10.	--
APR 17, 75	1055	4	.5	42000	22.0	--	7.6	101	0.	71
			3.7	42000	22.1	--	7.4	99	20.	--
AUG 28, 75	1030	4	.3	47000	28.6	8.3	6.8	105	5.	185
			1.5	47000	28.5	8.3	6.0	91	20.	--
			4.0	49000	29.0	8.2	3.4	54	20.	--
OCT 24, 74	1200	5	.3	46000	24.0	--	7.0	99	5.	140
			1.5	45000	23.5	--	7.0	97	15.	--
			2.9	45000	23.5	--	6.3	88	20.	--
JAN 30, 75	1145	5	.3	41000	19.9	8.0	7.7	97	10.	186
			1.5	41000	20.0	8.0	7.6	96	5.	--
			2.4	41000	20.4	8.1	7.6	97	10.	--
APR 17, 75	1105	5	.5	42000	23.2	--	7.7	103	10.	152
			2.4	42000	27.3	--	7.5	100	5.	--
					LINE 159					
OCT 24, 74	1540	8	.3	32000	24.0	--	8.8	116	10.	112
			1.5	32000	24.0	--	8.9	117	10.	--
			3.0	36000	24.0	--	7.6	101	5.	--
JUN 05, 75	1230	8	.3	42000	27.1	8.5	7.1	104	40.	--
			1.8	42000	27.0	8.4	6.8	100	40.	--
			3.7	42000	27.0	8.3	5.7	84	25.	--
OCT 24, 74	1600	10	.3	32000	24.0	--	8.3	109	0.	164
			1.5	33000	24.0	--	7.9	105	0.	--
			3.0	33000	24.0	--	8.6	115	5.	--
			4.6	36000	23.5	--	5.8	76	10.	--
JUN 05, 75	1245	10	.3	33000	27.2	8.4	7.2	101	30.	--
			2.1	36000	27.0	8.4	6.0	85	35.	--
			4.3	36000	27.0	8.4	5.8	82	50.	--
					LINE 168					
OCT 24, 74	1320	2	.3	44000	24.0	--	6.8	96	10.	102
			3.0	44000	24.0	--	6.8	96	15.	--
			6.1	44000	24.0	--	6.8	96	15.	--
			9.1	44000	23.5	--	6.6	92	30.	--
			14.3	45000	23.5	--	6.6	92	45.	--
JAN 30, 75	1020	2	.3	46000	18.7	8.0	6.9	87	10.	161
			3.0	46000	18.7	8.0	7.0	89	10.	--
			6.1	46000	18.7	8.0	6.9	87	15.	--
			14.6	46000	19.1	8.0	6.5	82	15.	--
APR 17, 75	0950	2	.3	40000	20.4	--	9.3	119	5.	127
			7.6	40000	20.4	--	9.4	121	5.	--
			15.2	40000	20.7	--	9.3	119	15.	--
JUN 05, 75	1200	2	.3	40000	27.0	8.3	4.8	70	20.	--

TABLE 8A--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 168 CONTINUED					
JUN 05, 75	1200	2	3.7	42000	26.7	8.3	4.7	69	20.	--
			7.3	43000	26.6	8.3	4.3	63	10.	--
			14.6	43000	26.6	8.3	3.9	57	15.	--
					LINE 170					
OCT 24, 74	1145	3	.3	45000	23.5	--	6.8	94	15.	150
			1.5	45000	23.5	--	6.7	93	15.	--
			3.0	45000	23.5	--	6.6	92	20.	--
			5.2	46000	23.5	--	6.7	93	15.	--
JAN 30, 75	1310	3	.3	35000	22.5	8.1	7.5	97	10.	105
			1.5	35000	22.5	8.1	7.3	95	10.	--
			3.0	34000	23.0	8.0	7.0	91	15.	--
			4.7	30000	24.8	8.1	7.0	93	15.	--
APR 17, 75	1115	3	.3	42000	23.2	--	5.5	75	15.	85
			2.4	42000	23.1	--	5.4	74	15.	--
			4.9	42000	23.0	--	5.4	74	10.	--
AUG 28, 75	1205	3	.3	47000	28.9	8.3	6.7	105	20.	133
			1.5	49000	29.0	8.3	6.5	103	30.	--
			4.6	47000	29.2	8.3	6.5	102	25.	--
OCT 24, 74	1130	4	.3	46000	23.5	--	6.8	94	10.	156
			1.5	46000	23.5	--	6.8	94	10.	--
			2.7	46000	23.5	--	6.8	94	10.	--
JAN 30, 75	1320	4	.3	39000	22.9	7.9	5.7	76	15.	85
			1.5	39000	23.0	8.0	5.7	76	20.	--
			2.1	39000	23.1	8.0	5.8	77	20.	--
APR 17, 75	1245	4	.5	42000	24.1	--	5.7	79	25.	33
			1.5	42000	24.1	--	5.4	75	20.	--
AUG 28, 75	1225	4	.3	47000	29.0	8.3	7.0	109	20.	116
			2.1	47000	29.0	8.2	6.8	106	20.	--
					LINE 183					
JAN 30, 75	1200	3	.3	41000	21.7	8.0	5.0	66	10.	110
			1.5	41000	21.6	8.0	5.0	66	10.	--
			3.0	41000	21.5	8.0	5.0	66	10.	--
			5.2	41000	21.4	8.0	5.1	66	10.	--
APR 17, 75	1220	3	.3	44000	24.1	--	6.3	88	20.	120
			2.7	42000	24.1	--	6.3	88	25.	--
			5.5	42000	24.8	--	5.5	77	15.	--
AUG 28, 75	1145	3	.3	49000	28.8	8.3	5.9	94	5.	140
			1.5	50000	28.2	8.3	5.7	88	10.	--
			3.0	50000	28.2	8.3	5.3	82	5.	--
			5.8	50000	29.2	8.3	4.6	73	0.	--
					LINE 903					
OCT 24, 74	1445	70	.6	46000	24.0	--	6.9	97	5.	94
			3.0	46000	24.0	--	6.9	97	10.	--
			6.1	46000	24.0	--	6.6	93	20.	--
			9.1	46000	23.5	--	6.6	92	20.	--
			13.4	46000	24.0	--	6.8	96	60.	--
JAN 30, 75	0945	70	.5	46000	17.9	8.0	7.4	92	0.	456
			3.0	46000	17.8	8.0	7.4	92	0.	--
			6.1	46000	17.8	8.0	6.5	81	0.	--
			12.5	46000	19.0	8.0	6.0	76	25.	--

TABLE 8A--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
LINE 903 CONTINUED										
AUG 26, 75	0900	70	.6	52000	28.6	8.2	7.0	111	20.	250
			3.0	52000	28.8	8.2	6.8	108	20.	--
			6.1	52000	28.7	8.2	6.9	110	20.	--
			9.1	52000	28.8	8.2	6.9	110	20.	--
			13.4	52000	28.7	8.2	6.9	110	20.	--

TABLE 88--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 38						
OCT 24, 74	1355	2	.3	17.0	.01	.00	.01	--	.18	6.5	0	1.0
JAN 30, 75	1245	2	.3	13.0	.00	.03	.01	--	.14	3.2	0	8.9
APR 17, 75	1045	2	.3	12.0	.06	.46	.08	--	.25	4.9	5	8.1
AUG 28, 75	1110	2	.3	--	.02	.43	.01	--	.31	6.4	0	--
			1.2	--	.02	.40	.01	--	.31	7.0	1	--
						LINE 53						
OCT 24, 74	1245	2	.3	--	.00	.01	.00	--	.10	4.0	--	5.2
			1.5	--	.00	.00	.00	--	.14	3.6	--	--
JAN 30, 75	1115	2	.3	--	.01	.09	.00	--	.14	1.7	3	--
APR 17, 75	0930	2	.3	--	.09	.04	.02	--	.13	1.9	0	11.0
			1.2	--	.09	.03	.01	--	.18	1.9	0	14.0
AUG 28, 75	1020	2	.3	--	.03	.01	.00	--	.11	2.3	0	--
OCT 24, 74	1215	4	.3	--	.00	.00	.00	--	.09	2.8	0	5.4
			1.4	--	.02	.08	.01	--	.18	3.1	--	--
JAN 30, 75	1040	4	.3	--	.00	--	.01	--	--	1.8	3	9.1
APR 17, 75	0915	4	.3	--	.01	.04	.00	--	.14	1.7	0	6.8
			.9	--	.02	.01	.00	--	.13	1.7	0	6.1
AUG 28, 75	1000	4	.3	--	.00	.01	.00	--	.13	2.3	0	--
						LINE 71						
OCT 24, 74	1520	2	.3	--	.10	.13	.01	--	.14	3.3	0	7.3
			13.1	--	.00	.68	.00	--	.25	4.0	--	14.0
JAN 30, 75	1500	2	.3	--	.35	.53	.03	--	.19	2.4	1	7.8
			13.1	--	.26	.97	.02	--	.84	1.2	2	20.0
APR 17, 75	1350	2	.3	--	.08	.14	.04	--	.12	3.9	1	12.0
			12.2	--	.09	.26	.04	--	.12	4.4	0	9.4
JUN 05, 75	1000	2	.3	--	.14	.18	.03	--	.12	2.5	0	9.0
			12.2	--	.14	.25	.03	--	.16	3.2	0	8.2
						LINE 108						
OCT 24, 74	1550	2	.3	--	.10	.15	.00	--	.16	3.4	0	2.6
			12.2	--	.00	.12	.01	--	.11	2.1	--	--
JAN 30, 75	1545	2	.3	--	.09	.22	.01	--	.17	6.2	2	10.0
			12.2	--	.15	.25	.01	--	.15	3.5	2	12.0
APR 17, 75	1445	2	.3	--	.10	.19	.02	--	.16	1.6	0	6.4
			12.2	--	.01	.05	.01	--	.08	1.3	0	4.7
JUN 05, 75	1035	2	.3	--	.02	.08	.01	--	.10	1.4	0	7.0
			10.4	--	.09	.26	.04	--	.13	.9	0	6.0
AUG 28, 75	1450	2	.3	--	.05	.22	.00	--	.17	4.1	1	--
			12.2	--	.00	.15	.00	--	.08	1.5	1	--
						LINE 122						
OCT 24, 74	1100	2	.3	--	.00	.01	.00	--	.06	2.3	0	2.1

TABLE 88--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 122 CONTINUED						
OCT 24, 74	1100	2	4.1	--	.00	.02	.00	--	.29	3.6	0	3.9
JAN 30, 75	1515	2	.5	--	.00	.00	.00	--	.06	2.2	2	--
			3.2	--	.00	.01	.00	--	.07	2.0	2	--
JUN 05, 75	1015	2	.6	--	.00	.00	.01	--	.07	1.9	4	7.4
			3.0	--	.00	.00	.01	--	.10	1.7	0	5.6
AUG 28, 75	1230	2	.3	--	.00	.01	.00	--	.06	2.2	0	--
			2.7	--	.00	.03	.00	--	.09	1.4	1	--
OCT 24, 74	1030	6	.3	--	.00	.00	.00	--	.06	2.0	0	8.1
			11.0	--	.00	.00	.00	--	.07	2.1	0	3.4
JAN 30, 75	1455	6	.5	--	.00	.03	.01	--	.06	1.7	1	5.5
			12.2	--	.00	.20	.05	--	.21	1.8	0	--
JUN 05, 75	1000	6	.6	--	.00	.00	.01	--	.07	1.8	0	25.0
			12.2	--	.00	.01	.01	--	.08	1.4	0	4.6
AUG 28, 75	1300	6	.3	--	.00	.02	.00	--	.08	2.1	1	--
			4.0	--	.01	.07	.00	--	.12	1.5	2	--
OCT 24, 74	0940	12	.3	3.9	.00	.00	.00	--	.07	2.2	0	6.0
			3.8	--	.01	.01	.00	--	.11	2.5	0	13.0
JAN 30, 75	1440	12	.5	1.8	.01	.01	.00	--	.06	1.7	0	--
			3.0	1.7	.00	.01	.00	--	.07	1.6	1	--
JUN 05, 75	0945	12	.6	1.7	.00	.00	.01	--	.07	1.2	6	2.5
			3.0	1.6	.00	.01	.01	--	.07	1.3	0	9.7
AUG 28, 75	1325	12	.3	--	.00	.03	.00	--	.09	1.7	1	--
			3.4	--	.01	.06	.00	--	.09	1.4	2	--
						LINE 131						
OCT 24, 74	0955	2	.3	--	.00	.00	.00	--	.06	2.4	0	4.4
			12.5	--	.00	.16	.01	--	.07	2.0	0	7.7
JAN 30, 75	1535	2	.3	--	.00	.01	.01	--	.06	2.4	5	7.7
			12.5	--	.00	.16	.01	--	.06	.9	0	2.3
APR 17, 75	1400	2	.3	--	.00	.00	.01	--	.05	1.0	0	11.0
			12.2	--	.01	.00	.00	--	.04	1.2	3	3.5
JUN 05, 75	1045	2	.3	--	.00	.00	.01	--	.06	1.7	3	5.1
			12.2	--	.00	.01	.01	--	.08	1.1	3	4.0
						LINE 142						
OCT 24, 74	1030	2	.3	--	.00	.00	.00	--	.05	2.4	0	3.5
			3.4	--	.00	.00	.00	--	.07	3.0	0	4.8
JAN 30, 75	1400	2	.5	--	.00	.01	.01	--	.07	1.8	1	--
			2.7	--	.00	.01	.00	--	.06	1.9	0	--
APR 17, 75	1330	2	.6	--	.01	.00	.00	--	.06	1.0	0	3.2
			3.0	--	.00	.01	.01	--	.02	1.1	0	3.8
AUG 28, 75	1325	2	.3	--	.01	.03	.00	--	.06	1.4	0	--
			4.0	--	.01	.02	.00	--	.09	1.4	0	--
OCT 24, 74	1105	8	.3	--	.00	.00	.01	--	.09	2.4	0	10.0
			4.3	--	.00	.00	.00	--	.10	2.6	0	13.0
JAN 30, 75	1335	8	.5	--	.00	.02	.00	--	.06	2.0	2	5.7

TABLE 8B--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 142 CONTINUED						
JAN 30, 75	1335	8	4.1	--	.00	.01	.01	--	.10	3.6	0	--
APR 17, 75	1305	8	.5	--	.00	.01	.01	--	.05	.9	0	5.8
			3.7	--	.00	.00	.01	--	.04	.9	0	4.4
AUG 28, 75	1245	8	.3	--	.01	.02	.00	--	.08	1.6	--	--
			4.0	--	.01	.02	.00	--	.07	1.2	0	--
						LINE 147						
OCT 24, 74	1240	2	.3	--	.00	.00	.01	--	.07	2.4	0	--
			4.1	--	.00	.01	.01	--	.11	2.6	0	10.0
JAN 30, 75	1055	2	.3	--	.00	.02	.00	--	.06	1.9	3	12.0
			3.4	--	--	--	--	--	--	1.7	0	--
APR 17, 75	1035	2	.3	--	.00	.01	.01	--	.03	1.0	0	3.1
			2.4	--	.00	.04	.01	--	.03	.9	1	5.7
AUG 28, 75	1000	2	.3	--	.01	.00	.00	--	.07	1.8	0	--
			3.7	--	.00	.00	.01	--	.10	1.7	0	--
OCT 24, 74	1210	4	.3	3.9	.00	.03	.01	--	.08	2.5	0	5.2
			4.1	--	.00	.02	.01	--	.11	2.7	0	10.0
JAN 30, 75	1130	4	.3	1.5	.00	.00	.00	--	.06	1.4	1	4.6
			3.8	1.6	.00	.02	.01	--	.06	1.6	0	--
AUG 28, 75	1030	4	.3	3.4	.00	.04	.01	--	.06	.8	0	--
			4.5	--	.00	.02	.01	--	.10	1.0	--	--
						LINE 903						
OCT 24, 74	1445	70	.6	.8	.01	.01	.00	--	.07	2.2	0	3.9
			13.4	1.1	.01	.01	.01	--	.13	1.9	0	9.4
JAN 30, 75	0945	70	.5	.3	.00	.01	.01	--	.04	.9	--	--
			12.5	.5	.00	.03	.02	--	.07	.8	--	--
AUG 26, 75	0900	70	.6	.6	.01	.03	.00	--	.04	.6	0	--
			13.4	.7	.01	.03	.00	--	.06	.6	0	--

TABLE 8C--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
						LINE 38						
OCT 24, 74	1355	2	.3	6900	140.0	130.0	1200	45.0	192	320	2100	4050
JAN 30, 75	1245	2	.3	11800	150.0	230.0	2000	70.0	197	520	3600	6680
APR 17, 75	1045	2	.3	20300	300.0	400.0	3800	130.0	212	780	6700	12200
AUG 28, 75	1110	2	.3	2690	--	--	--	--	--	--	--	--
			1.2	2750	--	--	--	--	--	--	--	--
						LINE 53						
OCT 24, 74	1245	2	.3	34100	--	--	--	--	--	--	--	--
			1.5	40500	--	--	--	--	--	--	--	--
JAN 30, 75	1115	2	.3	39500	--	--	--	--	--	--	--	--
APR 17, 75	0930	2	.3	43300	--	--	--	--	--	--	--	--
			1.2	43200	--	--	--	--	--	--	--	--
AUG 28, 75	1020	2	.3	34500	--	--	--	--	--	--	--	--
OCT 24, 74	1215	4	.3	40000	--	--	--	--	--	--	--	--
			1.4	41400	--	--	--	--	--	--	--	--
JAN 30, 75	1040	4	.3	38400	--	--	--	--	--	--	--	--
APR 17, 75	0915	4	.3	43400	--	--	--	--	--	--	--	--
			.9	43100	--	--	--	--	--	--	--	--
AUG 28, 75	1000	4	.3	38100	--	--	--	--	--	--	--	--
						LINE 71						
OCT 24, 74	1520	2	.3	44100	--	--	--	--	--	--	--	--
			13.1	44900	--	--	--	--	--	--	--	--
JAN 30, 75	1500	2	.3	42200	--	--	--	--	--	--	--	--
			13.1	42200	--	--	--	--	--	--	--	--
APR 17, 75	1350	2	.3	43400	--	--	--	--	--	--	--	--
			12.2	43200	--	--	--	--	--	--	--	--
JUN 05, 75	1000	2	.3	40800	--	--	--	--	--	--	--	--
			12.2	41200	--	--	--	--	--	--	--	--
						LINE 108						
OCT 24, 74	1550	2	.3	43800	--	--	--	--	--	--	--	--
			12.2	44700	--	--	--	--	--	--	--	--
JAN 30, 75	1545	2	.3	42200	--	--	--	--	--	--	--	--
			12.2	42200	--	--	--	--	--	--	--	--
APR 17, 75	1445	2	.3	41700	--	--	--	--	--	--	--	--
			12.2	42800	--	--	--	--	--	--	--	--
JUN 05, 75	1035	2	.3	36100	--	--	--	--	--	--	--	--
			10.4	41400	--	--	--	--	--	--	--	--
AUG 28, 75	1450	2	.3	46700	--	--	--	--	--	--	--	--
			12.2	50300	--	--	--	--	--	--	--	--
						LINE 122						
OCT 24, 74	1100	2	.3	45300	--	--	--	--	--	--	--	--

TABLE 80--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
				LINE 122 CONTINUED								
OCT 24, 74	1100	2	4.1	45300	--	--	--	--	--	--	--	--
JAN 30, 75	1515	2	.5	42200	--	--	--	--	--	--	--	--
			3.2	42700	--	--	--	--	--	--	--	--
JUN 05, 75	1015	2	.6	33000	--	--	--	--	--	--	--	--
			3.0	42900	--	--	--	--	--	--	--	--
AUG 23, 75	1230	2	.3	46600	--	--	--	--	--	--	--	--
			2.7	47200	--	--	--	--	--	--	--	--
OCT 24, 74	1030	6	.3	45200	--	--	--	--	--	--	--	--
			11.0	45900	--	--	--	--	--	--	--	--
JAN 30, 75	1455	6	.5	43200	--	--	--	--	--	--	--	--
			12.2	43600	--	--	--	--	--	--	--	--
JUN 05, 75	1500	6	.6	41400	--	--	--	--	--	--	--	--
			12.2	43200	--	--	--	--	--	--	--	--
AUG 28, 75	1330	6	.3	46000	--	--	--	--	--	--	--	--
			4.0	45500	--	--	--	--	--	--	--	--
OCT 24, 74	0940	12	.3	44400	350.0	820.0	8800	360.0	163	2100	15000	27500
			3.6	45000	--	--	--	--	--	--	--	--
JAN 30, 75	1440	12	.5	43000	450.0	1100.0	8800	350.0	165	2100	16000	28900
			3.0	43600	380.0	1000.0	9100	350.0	168	2100	16000	29000
JUN 05, 75	0945	12	.6	42500	370.0	880.0	8800	330.0	156	2100	15000	27600
			3.0	42400	360.0	990.0	8400	330.0	158	2100	15000	27300
AUG 28, 75	1325	12	.3	47200	--	--	--	--	--	--	--	--
			3.4	47200	--	--	--	--	--	--	--	--
				LINE 131								
OCT 24, 74	0955	2	.3	44300	--	--	--	--	--	--	--	--
			12.5	45400	--	--	--	--	--	--	--	--
JAN 30, 75	1535	2	.3	43200	--	--	--	--	--	--	--	--
			12.5	47600	--	--	--	--	--	--	--	--
APR 17, 75	1400	2	.3	40000	--	--	--	--	--	--	--	--
			12.2	40700	--	--	--	--	--	--	--	--
JUN 05, 75	1045	2	.3	36600	--	--	--	--	--	--	--	--
			12.2	43300	--	--	--	--	--	--	--	--
				LINE 142								
OCT 24, 74	1030	2	.3	44800	--	--	--	--	--	--	--	--
			3.4	46100	--	--	--	--	--	--	--	--
JAN 30, 75	1400	2	.5	43500	--	--	--	--	--	--	--	--
			2.7	43600	--	--	--	--	--	--	--	--
APR 17, 75	1330	2	.6	42400	--	--	--	--	--	--	--	--
			3.0	42200	--	--	--	--	--	--	--	--
AUG 28, 75	1325	2	.3	49100	--	--	--	--	--	--	--	--
			4.0	50600	--	--	--	--	--	--	--	--
OCT 24, 74	1105	8	.3	45200	--	--	--	--	--	--	--	--
			4.3	45600	--	--	--	--	--	--	--	--
JAN 30, 75	1335	8	.5	43000	--	--	--	--	--	--	--	--

TABLE 8C--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
LINE 142 -CONTINUED												
JAN 30, 75	1335	8	4.1	43700	--	--	--	--	--	--	--	--
APR 17, 75	1305	8	.5	44600	--	--	--	--	--	--	--	--
			3.7	44500	--	--	--	--	--	--	--	--
AUG 28, 75	1245	8	.3	48500	--	--	--	--	--	--	--	--
			4.0	48500	--	--	--	--	--	--	--	--
LINE 147												
OCT 24, 74	1240	2	.3	45000	--	--	--	--	--	--	--	--
			4.1	46400	--	--	--	--	--	--	--	--
JAN 30, 75	1055	2	.3	43400	--	--	--	--	--	--	--	--
			3.4	43600	--	--	--	--	--	--	--	--
APR 17, 75	1035	2	.3	41800	--	--	--	--	--	--	--	--
			2.4	41300	--	--	--	--	--	--	--	--
AUG 28, 75	1000	2	.3	48900	--	--	--	--	--	--	--	--
			3.7	51800	--	--	--	--	--	--	--	--
OCT 24, 74	1210	4	.3	45500	340.0	1100.0	9100	380.0	163	2300	16000	29300
			4.1	46400	--	--	--	--	--	--	--	--
JAN 30, 75	1130	4	.3	43600	270.0	1000.0	--	350.0	156	2100	16000	28800
			3.8	43500	370.0	990.0	--	350.0	155	2100	16000	29100
AUG 28, 75	1030	4	.3	48400	470.0	1200.0	11000	370.0	173	2400	17000	30700
			4.0	50400	--	--	--	--	--	--	--	--
LINE 903												
OCT 24, 74	1445	70	.6	46100	300.0	1100.0	9600	380.0	144	2300	16000	29800
			13.4	46400	360.0	860.0	--	380.0	143	2400	17000	31100
JAN 30, 75	0945	70	.5	47400	380.0	1000.0	10000	400.0	146	2300	17000	31200
			12.5	49200	390.0	1300.0	10000	400.0	148	2500	18000	32700
AUG 23, 75	0900	70	.6	54400	510.0	1400.0	12000	410.0	153	2800	20000	36200
			13.4	55100	480.0	1400.0	12000	420.0	152	2900	20000	37300

TABLE 8D--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 38					
OCT 24, 74	1355	2	.3	100	6	--	--	0	--	--	--
JAN 30, 75	1245	2	.3	--	--	--	--	--	--	--	.5
APR 17, 75	1045	2	.3	--	--	--	--	--	--	--	.7
						LINE 53					
OCT 24, 74	1245	2	.3	40	2	--	--	1	--	--	--
OCT 24, 74	1215	4	.3	30	4	3	--	0	0	--	--
						LINE 108					
OCT 24, 74	1550	2	.3	40	4	3	--	0	0	--	--
			12.2	100	2	--	--	0	--	--	--
						LINE 122					
OCT 24, 74	1100	2	.3	40	2	1	--	0	0	--	--
OCT 24, 74	1030	6	.3	30	3	--	--	0	--	--	--
			11.0	30	3	--	--	0	--	--	--
OCT 24, 74	0940	12	.3	30	2	3	--	0	0	--	--
JAN 30, 75	1440	12	.5	--	--	--	--	--	--	--	1.3
			3.0	--	--	--	--	--	--	--	1.3
JUN 05, 75	0945	12	.6	--	--	--	--	--	--	--	1.3
			3.0	--	--	--	--	--	--	--	1.0
						LINE 131					
OCT 24, 74	0955	2	.3	30	3	--	--	0	--	--	--
						LINE 142					
OCT 24, 74	1030	2	.3	30	2	--	--	0	--	--	--
OCT 24, 74	1105	8	.3	40	1	3	--	1	0	--	--
						LINE 147					
OCT 24, 74	1210	4	.3	40	1	--	--	0	--	--	--
JAN 30, 75	1130	4	.3	--	--	--	--	--	--	--	1.3
			3.8	--	--	--	--	--	--	--	.1
AUG 28, 75	1030	4	.3	--	--	--	--	--	--	--	1.3
						LINE 903					
OCT 24, 74	1445	70	.6	70	1		--	0	0	--	--
			13.4	40	1	--	--	0	--	--	--
JAN 30, 75	0945	70	.5	--	--	--	--	--	--	--	1.0
			12.5	--	--	--	--	--	--	--	1.5
AUG 28, 75	0900	70	.6	--	--	--	--	--	--	--	1.4

TABLE 80--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
LINE 903 CONTINUED											
AUG 28, 75	0900	70	13.4	--	--	--	--	--	--	--	1.5

TABLE 80--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED LITH-IUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BOTTOM DEPOSIT MAN-GANESE (MN) (UG/GM)	DIS-SOLVED MER-CURY (HG) (UG/L)	TOTAL MER-CURY (HG) (UG/L)	BOTTOM DEPOSIT MER-CURY (HG) (UG/GM)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
						LINE 38						
OCT 24, 74	1355	2	.3	58	0	--	--	.4	--	--	2	2500
						LINE 53						
OCT 24, 74	1245	2	.3	120	47	--	--	.1	--	--	2	5000
OCT 24, 74	1215	4	.3	130	59	82	--	.0	.3	--	2	5100
						LINE 108						
OCT 24, 74	1550	2	.3	130	59	94	--	.3	.4	--	1	5300
			12.2	130	71	--	--	.1	--	--	3	5300
						LINE 122						
OCT 24, 74	1100	2	.3	130	71	110	--	.0	.4	--	1	5300
OCT 24, 74	1030	6	.3	130	71	--	--	.1	--	--	1	5300
			11.0	130	59	--	--	.1	--	--	2	5300
OCT 24, 74	0940	12	.3	140	71	94	--	.3	.4	--	1	5400
						LINE 131						
OCT 24, 74	0955	2	.3	130	35	--	--	.1	--	--	3	5300
						LINE 142						
OCT 24, 74	1030	2	.3	130	71	--	--	.1	--	--	3	5300
OCT 24, 74	1105	8	.3	140	59	110	--	.0	.4	--	1	5400
						LINE 147						
OCT 24, 74	1210	4	.3	140	71	--	--	.1	--	--	1	5600
						LINE 903						
OCT 24, 74	1445	70	.6	130	82	110	--	.1	.3	--	1	5100
			13.4	130	82	--	--	.0	--	--	4	5200

TABLE 80--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CYANIDE (CN) (MG/L)	BOTTOM DEPOSIT CYANIDE (CN) (UG/GM)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	BOTTOM DEPOSIT IRON (FE) (UG/GM)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	BOTTOM DEPOSIT LEAD (PB) (UG/GM)
						LINE 38					
OCT 24, 74	1355	2	.3	--	--	30	--	--	3	--	--
						LINE 53					
OCT 24, 74	1245	2	.3	--	--	110	--	--	1	--	--
OCT 24, 74	1215	4	.3	--	--	110	490	--	2	3	--
						LINE 108					
OCT 24, 74	1550	2	.3	--	--	100	280	--	0	0	--
			12.2	--	--	130	--	--	1	--	--
						LINE 122					
OCT 24, 74	1100	2	.3	--	--	120	340	--	0	2	--
OCT 24, 74	1030	6	.3	--	--	120	--	--	3	--	--
			11.0	--	--	110	--	--	0	--	--
OCT 24, 74	0940	12	.3	--	--	120	410	--	0	2	--
						LINE 131					
OCT 24, 74	0955	2	.3	--	--	110	--	--	0	--	--
						LINE 142					
OCT 24, 74	1030	2	.3	--	--	110	--	--	0	--	--
OCT 24, 74	1105	8	.3	--	--	140	290	--	2	3	--
						LINE 147					
OCT 24, 74	1210	4	.3	--	--	140	--	--	2	--	--
						LINE 903					
OCT 24, 74	1445	70	.6	--	--	170	470	--	16	3	--
			13.4	--	--	130	--	--	1	--	--

TABLE 80--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	BOTTOM DEPOSIT COBALT (CO) (UG/GM)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	BOTTOM DEPOSIT COPPER (CU) (UG/GM)
						LINE 38					
OCT 24, 74	1355	2	.3	.00	--	0	--	--	8	--	--
						LINE 53					
OCT 24, 74	1245	2	.3	3.00	--	0	--	--	8	--	--
OCT 24, 74	1215	4	.3	.00	50.00	0	3	--	7	8.0	--
						LINE 108					
OCT 24, 74	1550	2	.3	.00	40.00	0	3	--	6	7.0	--
			12.2	.00	--	0	--	--	5	--	--
						LINE 122					
OCT 24, 74	1100	2	.3	.00	50.00	0	0	--	12	8.0	--
OCT 24, 74	1030	6	.3	.00	--	0	--	--	8	--	--
			11.0	16.00	--	0	--	--	6	--	--
OCT 24, 74	0940	12	.3	.00	50.00	0	5	--	14	12.0	--
						LINE 131					
OCT 24, 74	0955	2	.3	.00	--	0	--	--	6	--	--
						LINE 142					
OCT 24, 74	1030	2	.3	3.00	--	0	--	--	5	--	--
OCT 24, 74	1105	8	.3	.00	40.00	0	5	--	39	5.0	--
						LINE 147					
OCT 24, 74	1210	4	.3	.00	--	0	--	--	5	--	--
						LINE 903					
OCT 24, 74	1445	70	.6	.00	60.00	0	0	--	17	6.0	--
			13.4	.00	--	0	--	--	30	--	--

TABLE 80--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	BOTTOM DEPOSIT ZINC (ZN) (UG/GM)
						LINE 38
OCT 24, 74	1355	2	.3	10	--	--
						LINE 53
OCT 24, 74	1245	2	.3	60	--	--
OCT 24, 74	1215	4	.3	70	50	--
						LINE 108
OCT 24, 74	1550	2	.3	70	40	--
			12.2	60	--	--
						LINE 122
OCT 24, 74	1100	2	.3	90	70	--
OCT 24, 74	1030	6	.3	50	--	--
			11.0	50	--	--
OCT 24, 74	0940	12	.3	80	60	--
						LINE 131
OCT 24, 74	0955	2	.3	80	--	--
						LINE 142
OCT 24, 74	1050	2	.3	80	--	--
OCT 24, 74	1105	8	.3	140	80	--
						LINE 147
OCT 24, 74	1210	4	.3	80	--	--
						LINE 903
OCT 24, 74	1445	70	.6	160	80	--
			13.4	90	--	--

TABLE 8E--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL ALDRIN (UG/L)	BOTTOM DEPOSIT ALDRIN (UG/KG)	TOTAL CHLOR-DANE (UG/L)	BOTTOM DEPOSIT CHLOR-DANE (UG/KG)	TOTAL DDD (UG/L)	BOTTOM DEPOSIT DDD (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDE (UG/KG)
						LINE 53					
OCT 24, 74	1215	4	.3	.00	--	.0	--	.0	--	.00	--
			1.4	--	.0	--	.0	--	.0	--	.0
						LINE 108					
OCT 24, 74	1550	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 122					
OCT 24, 74	1100	2	.3	.00	--	.0	--	.00	--	.00	--
OCT 24, 74	0940	12	.3	.00	--	.0	--	.00	--	.00	--
						LINE 142					
OCT 24, 74	1105	8	.3	.00	--	.0	--	.00	--	.00	--
						LINE 903					
OCT 24, 74	1445	70	.6	.00	--	.0	--	.00	--	.00	--

TABLE 8E--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL DDT (UG/L)	BOTTOM DEPOSIT DDT (UG/KG)	TOTAL DIEL-DRIN (UG/L)	BOTTOM DEPOSIT DIEL-DRIN (UG/KG)	TOTAL ENDRIN (UG/L)	BOTTOM DEPOSIT ENDRIN (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR (UG/KG)
						LINE 53					
OCT 24, 74	1215	4	.3	.00	--	.00	--	.00	--	.00	--
			1.4	--	.0	--	.0	--	.0	--	.0
						LINE 108					
OCT 24, 74	1550	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 122					
OCT 24, 74	1100	2	.3	.00	--	.00	--	.00	--	.00	--
OCT 24, 74	0940	12	.3	.00	--	.00	--	.00	--	.00	--
						LINE 142					
OCT 24, 74	1105	8	.3	.00	--	.00	--	.00	--	.00	--
						LINE 903					
OCT 24, 74	1445	70	.6	.00	--	.00	--	.00	--	.00	--

TABLE 8E--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR EPOXIDE (UG/KG)	TOTAL LINDANE (UG/L)	BOTTOM DEPOSIT LINDANE (UG/KG)	TOTAL PARA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL DIAZ-INON (UG/L)
						LINE 53					
OCT 24, 74	1215	4	.3	.00	--	.00	--	.00	.00	.00	.00
			1.4	--	.0	--	.0	--	--	--	--
						LINE 108					
OCT 24, 74	1550	2	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 122					
OCT 24, 74	1100	2	.3	.00	--	.00	--	.00	.00	.00	.00
OCT 24, 74	0940	12	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 142					
OCT 24, 74	1105	8	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 903					
OCT 24, 74	1445	70	.6	.00	--	.00	--	.00	.00	.00	.00

TABLE 8C--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL PCB (UG/L)	BOTTOM DEPOSIT PCB (UG/KG)	TOTAL 2,4-D (UG/L)	BOTTOM DEPOSIT 2,4-D (UG/KG)	TOTAL 2,4,5-T (UG/L)	BOTTOM DEPOSIT 2,4,5-T (UG/KG)	TOTAL SILVEX (UG/L)	BOTTOM DEPOSIT SILVEX (UG/KG)
						LINE 38					
OCT 24, 74	1355	2	.3	--	--	.00	--	.00	--	.00	--
						LINE 53					
OCT 24, 74	1245	2	.3	--	--	.01	--	.00	--	.00	--
OCT 24, 74	1215	4	.3	.0	--	.00	--	.00	--	.00	--
			1.4	--	7.0	--	.0	--	.0	--	.0
						LINE 108					
OCT 24, 74	1550	2	.3	.0	--	.00	--	.00	--	.00	--
						LINE 122					
OCT 24, 74	1100	2	.3	.0	--	.00	--	.00	--	.00	--
OCT 24, 74	0940	12	.3	.0	--	.00	--	.00	--	.00	--
						LINE 131					
OCT 24, 74	0955	2	.3	--	--	.00	--	.00	--	.00	--
						LINE 142					
OCT 24, 74	1030	2	.3	--	--	.00	--	.00	--	.00	--
OCT 24, 74	1105	8	.3	.0	--	.00	--	.00	--	.00	--
						LINE 147					
OCT 24, 74	1210	4	.3	--	--	.00	--	.00	--	.00	--
						LINE 903					
OCT 24, 74	1445	70	.6	.0	--	.00	--	.00	--	.00	--

TABLE 8E--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL TOXA-PHENE (UG/L)	BOTTOM DEPOSIT TOXA-PHENE (UG/KG)	TOTAL ETHION (UG/L)	BOTTOM DEPOSIT ETHION (UG/KG)	TOTAL METHYL TRI-THION (UG/L)	BOTTOM DEPOSIT METHYL TRI-THION (UG/KG)	TOTAL TRI-THION (UG/L)	BOTTOM DEPOSIT TRI-THION (UG/KG)
						LINE 93					
OCT 24, 74	1215	4	.3	.0	--	--	--	--	--	--	--
			1.4	--	0.	--	--	--	--	--	--
						LINE 108					
OCT 24, 74	1550	2	.3	.0	--	--	--	--	--	--	--
						LINE 122					
OCT 24, 74	1100	2	.3	.0	--	--	--	--	--	--	--
OCT 24, 74	0940	12	.3	.0	--	--	--	--	--	--	--
						LINE 142					
OCT 24, 74	1105	8	.3	.0	--	--	--	--	--	--	--
						LINE 903					
OCT 24, 74	1445	70	.6	.0	--	--	--	--	--	--	--

TABLE BF--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)
						LINE 38	
OCT 24, 74	1355	2	.3	60	26	18	3.60
JAN 30, 75	1245	2	.3	--	--	--	9.70
APR 17, 75	1045	2	.3	--	24	12	--
AUG 28, 75	1110	2	.3	--	8	28	--
						LINE 53	
OCT 24, 74	1245	2	.3	0	0	0	2.60
JAN 30, 75	1115	2	.3	--	--	--	1.90
APR 17, 75	0930	2	.3	0	2	0	.20
AUG 28, 75	1020	2	.3	0	0	2	3.30
OCT 24, 74	1215	4	.3	10	4	2	4.20
JAN 30, 75	1040	4	.3	--	--	--	4.90
APR 17, 75	0915	4	.3	0	0	0	.00
AUG 28, 75	1000	4	.3	--	4	18	2.90
						LINE 71	
OCT 24, 74	1520	2	.3	--	1	20	.60
APR 17, 75	1350	2	.3	12	1	3	--
JUN 05, 75	1000	2	.3	17	13	4	--
						LINE 108	
OCT 24, 74	1550	2	.3	100	38	23	1.90
APR 17, 75	1445	2	.3	160	22	21	.40
JUN 05, 75	1035	2	.3	0	0	0	--
AUG 28, 75	1450	2	.3	--	32	41	5.00
						LINE 122	
OCT 24, 74	1100	2	.3	0	0	0	1.90
JAN 30, 75	1515	2	.5	--	--	--	.70
JUN 05, 75	1015	2	.6	--	--	--	3.00
AUG 28, 75	1230	2	.3	0	2	1	3.50
OCT 24, 74	1030	6	.3	--	0	11	.70
JAN 30, 75	1455	6	.5	--	--	--	1.00
AUG 28, 75	1300	6	.3	--	--	--	2.50
OCT 24, 74	0940	12	.3	16	0	19	4.80
JAN 30, 75	1440	12	.5	--	--	--	.40

TABLE 8F--QUALITY OF WATER IN THE NUECES ESTUARY,

1975 WATER YEAR--CONTINUED

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
				LINE 122 CONTINUED			
JUN 05, 75	0945	12	.6	1	0	0	--
AUG 28, 75	1325	12	.3	1	0	1	1.60
				LINE 131			
OCT 24, 74	0955	2	.3	8	0	6	--
APR 17, 75	1400	2	.3	--	3	12	--
JUN 05, 75	1045	2	.3	12	10	3	--
				LINE 142			
OCT 24, 74	1030	2	.3	12	0	2	3.70
JAN 30, 75	1400	2	.5	--	--	--	.90
APR 17, 75	1330	2	.6	0	0	0	.40
AUG 28, 75	1325	2	.3	0	0	3	2.60
			4.0	--	--	--	2.60
OCT 24, 74	1105	8	.3	16	0	0	--
JAN 30, 75	1335	8	.5	--	--	--	.80
APR 17, 75	1305	8	.6	0	0	0	--
AUG 28, 75	1245	8	.3	0	1	0	1.50
				LINE 147			
OCT 24, 74	1240	2	.3	9	0	0	.20
JAN 30, 75	1055	2	.3	--	--	--	2.90
APR 17, 75	1035	2	.3	3	0	8	.00
AUG 28, 75	1000	2	.3	0	1	2	--
OCT 24, 74	1210	4	.3	0	0	0	1.50
JAN 30, 75	1130	4	.3	--	--	--	.10
AUG 28, 75	1130	4	.3	0	0	0	1.60
				LINE 903			
OCT 24, 74	1445	70	.6	0	0	0	--
AUG 28, 75	0900	70	.6	0	0	0	2.00

Laguna Madre Estuary

The Laguna Madre estuary covers an area of about 640 square miles (1,658 km^2) and consists of the tidal parts of the Arroyo Colorado and other tributaries, upper Laguna Madre, Baffin Bay, lower Laguna Madre, Brownsville Ship Channel, part of the Intracoastal Waterway, Port Mansfield Channel, and Brazos Santiago Pass (Figure 10). At mlw, upper and lower Laguna Madre and Baffin Bay are generally less than 4 feet (1.2 m) deep, but in a few areas are as much as 10 feet (3.0 m) deep. The Intracoastal Waterway, Port Mansfield Channel, and Arroyo Colorado are about 15 feet (4.6 m) deep; the Brownsville Ship Channel is about 40 feet (12.2 m) deep.

Water-quality data (Table 9) were collected in October 1974 and February and June 1975.

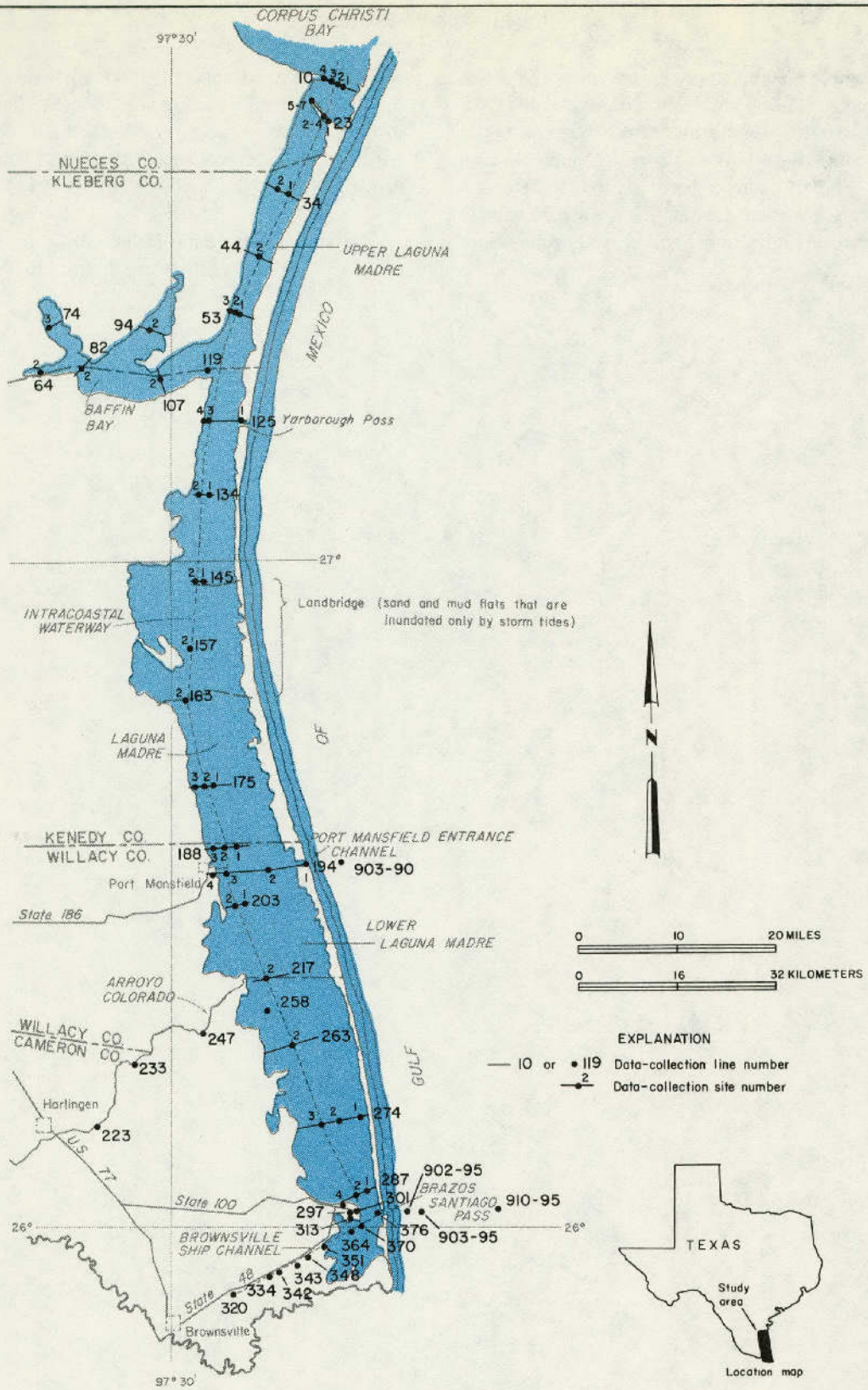

Figure 10

Data-Collection Sites in the Laguna Madre Estuary

Base by U.S. Geological Survey, 1956

TABLE 5A--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
						LINE 10				
FEB 05, 75	1740	3	.3	43000	18.7	8.5	12.8	160	0.	119
			1.5	43000	18.7	8.5	13.6	170	0.	--
			5.0	43000	18.7	8.5	12.7	159	5.	--
						LINE 23				
OCT 23, 74	1615	3	.3	46000	23.0	--	5.5	75	10.	102
			1.5	46000	23.0	--	5.8	79	10.	--
			3.0	46000	23.0	--	5.9	81	10.	--
			4.6	46000	23.0	--	5.3	73	15.	--
			5.8	46000	23.0	--	5.6	77	30.	--
FEB 05, 75	1715	3	.3	42000	18.5	8.5	11.6	145	5.	150
			1.5	42000	18.4	8.5	11.0	136	0.	--
			3.0	42000	18.4	8.5	10.6	131	0.	--
			5.8	42000	18.1	8.4	10.0	123	5.	--
JUN 04, 75	1620	3	.3	60000	27.9	8.4	12.2	197	30.	640
			2.7	60000	27.8	8.3	10.7	173	350.	--
			5.5	61000	27.2	8.3	8.9	144	325.	--
OCT 23, 74	1640	6	.3	46000	23.0	--	6.7	92	10.	84
			1.5	46000	23.0	--	6.5	89	20.	--
			3.4	46000	23.0	--	6.5	89	20.	--
						LINE 34				
OCT 23, 74	1630	1	.3	60000	24.1	8.2	4.6	69	20.	202
			1.5	62000	24.1	8.2	4.6	70	20.	--
			3.0	65000	23.8	8.2	4.0	62	20.	--
			4.7	65000	23.9	8.2	3.9	60	55.	--
FEB 05, 75	1635	1	.3	46000	18.5	8.4	11.7	146	5.	191
			1.5	46000	18.6	8.3	10.7	135	0.	--
			3.0	46000	18.6	8.3	8.7	110	0.	--
			4.7	46000	18.6	8.3	8.1	103	50.	--
JUN 04, 75	1545	1	.3	60000	27.2	8.3	7.7	122	65.	770
			2.1	60000	27.2	8.3	7.4	117	40.	--
			4.0	60000	27.2	8.3	7.1	113	120.	--
OCT 23, 74	1620	2	.3	57000	24.4	8.2	4.6	70	20.	122
			1.2	57000	24.4	8.2	4.7	71	80.	--
						LINE 44				
OCT 23, 74	1510	2	.3	57000	23.5	--	6.2	91	20.	119
			1.5	57000	23.0	--	6.5	96	20.	--
			3.0	57000	23.0	--	5.9	87	30.	--
			5.2	60000	23.0	--	5.8	85	--	--
FEB 05, 75	1600	2	.3	48000	18.8	8.3	9.6	123	5.	123
			1.5	48000	18.8	8.3	9.7	124	--	--
			3.0	48000	18.7	8.3	10.8	138	5.	--
			5.0	48000	18.7	8.3	9.8	126	10.	--
JUN 04, 75	1515	2	.3	63000	27.0	8.3	7.7	126	35.	1100
			2.4	63000	26.9	8.3	7.4	121	35.	--
			4.6	63000	26.5	8.2	7.1	115	135.	--
						LINE 53				
OCT 23, 74	1515	1	.3	62000	24.5	8.2	5.1	78	10.	130

TABLE 9A--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
				LINE 53 CONTINUED						
OCT 23, 74	1515	1	1.7	63000	24.3	8.2	4.8	74	10.	--
OCT 23, 74	1500	2	.3	60000	24.4	8.3	4.5	68	20.	84
			1.5	62000	24.4	8.3	4.3	66	25.	--
			3.0	62000	24.0	8.3	4.1	62	20.	--
			4.6	62000	23.8	8.2	3.9	59	50.	--
FEB 05, 75	1530	2	.3	49000	18.6	8.3	8.8	114	5.	100
			1.5	49000	18.6	8.3	8.2	106	5.	--
			3.0	49000	18.6	8.3	8.8	114	5.	--
			4.4	50000	18.5	8.2	6.8	87	15.	--
JUN 04, 75	1500	2	.3	63000	26.5	8.2	6.6	106	30.	690
			2.1	63000	26.0	8.2	6.3	102	75.	--
			4.3	63000	25.5	8.2	3.3	53	70.	--
				LINE 64						
OCT 23, 74	1110	2	.3	56000	24.2	8.4	7.0	103	30.	43
			1.7	56000	24.2	8.3	6.3	93	60.	--
FEB 05, 75	1410	2	.3	54000	17.9	8.3	6.0	79	110.	51
			1.2	54000	17.9	8.3	6.7	82	150.	--
JUN 04, 75	1350	2	.3	65000	28.0	--	6.3	105	--	64
			1.5	65000	28.0	--	6.3	105	--	--
				LINE 74						
OCT 23, 74	1140	2	.3	53000	24.4	7.9	5.8	85	20.	74
			1.5	54000	24.4	7.8	4.6	69	50.	--
JUN 04, 75	1155	2	.3	65000	27.9	--	4.7	80	--	21
			1.5	67000	27.9	--	4.6	78	--	--
FEB 05, 75	1340	3	.3	52000	17.5	8.1	8.0	103	60.	40
			1.5	52000	17.5	8.1	7.7	99	70.	--
				LINE 82						
OCT 23, 74	1210	2	.3	57000	24.0	7.7	5.9	88	10.	112
			1.5	57000	24.0	7.7	4.6	69	30.	--
			2.1	57000	23.9	7.6	3.5	52	10.	--
FEB 05, 75	1320	2	.3	52000	18.1	8.0	6.9	90	55.	34
			2.1	52000	17.9	8.0	7.1	92	50.	--
JUN 04, 75	1335	2	.3	64000	27.7	--	5.8	97	--	18
			1.8	64000	27.7	--	5.8	97	--	--
				LINE 94						
OCT 23, 74	1300	2	.3	60000	24.0	7.9	6.6	99	60.	30
			1.5	59000	24.0	7.9	6.4	96	70.	--
FEB 05, 75	1250	2	.3	52000	17.9	8.1	7.4	96	45.	43
			1.5	52000	18.0	8.1	7.7	100	25.	--
JUN 04, 75	1305	2	.3	64000	28.0	--	5.5	92	--	14
			1.2	64000	28.0	--	5.5	92	--	--
				LINE 107						
OCT 23, 74	1350	2	.3	62000	23.8	8.2	5.6	85	20.	56

TABLE 9A--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 107 CONTINUED						
OCT 23, 74	1350	2	1.5	62000	23.6	8.2	5.0	76	20.	--
			2.4	63000	23.7	8.2	4.4	67	50.	--
FEB 05, 75	1210	2	.3	52000	18.5	8.1	6.9	91	35.	48
			1.2	52000	18.4	8.1	6.9	90	35.	--
			2.4	52000	18.4	8.0	6.8	88	25.	--
JUN 04, 75	1415	2	.5	62000	26.5	8.2	7.1	115	50.	530
			1.8	62000	26.4	8.2	6.8	110	50.	--
				LINE 119						
FEB 05, 75	1500	2	.3	50000	18.5	8.2	6.6	85	0.	123
			1.5	50000	18.5	8.2	6.6	85	5.	--
			2.4	49000	18.6	8.3	6.6	86	5.	--
JUN 04, 75	1400	2	.3	55000	26.2	8.4	7.4	114	0.	970
			1.8	55000	26.1	8.4	7.2	111	5.	--
OCT 23, 74	1435	3	.3	62000	24.1	8.3	5.8	88	20.	71
			1.5	62000	23.7	8.2	5.3	80	20.	--
			2.7	62000	23.7	8.2	4.9	74	40.	--
				LINE 125						
OCT 23, 74	1355	1	.3	68000	23.5	--	7.9	123	40.	66
			1.8	69000	23.0	--	5.5	86	20.	--
FEB 05, 75	1300	1	.3	49000	18.4	8.3	6.4	82	10.	87
			1.2	52000	18.4	8.3	3.9	51	10.	--
			2.0	52000	17.7	8.2	.0	0	15.	--
JUN 04, 75	1310	1	.3	60000	26.2	8.5	5.5	86	25.	750
			1.2	60000	26.0	8.5	5.3	83	10.	--
OCT 23, 74	1405	3	.3	68000	24.0	--	8.8	140	30.	58
			1.5	68000	23.5	--	6.8	106	35.	--
			3.0	68000	23.5	--	6.1	95	30.	--
			5.2	69000	23.5	--	5.2	81	40.	--
FEB 05, 75	1330	3	.3	51000	19.4	8.5	8.1	107	5.	79
			1.5	51000	19.4	8.5	8.0	105	10.	--
			3.0	51000	19.4	8.5	8.0	105	10.	--
			5.2	51000	19.4	8.5	8.0	105	15.	--
JUN 04, 75	1320	3	.3	50000	27.0	8.4	6.7	102	10.	1050
			2.1	50000	27.0	8.4	6.5	98	85.	--
			4.3	55000	26.1	8.4	4.8	74	30.	--
OCT 23, 74	1420	4	.3	67000	24.0	--	7.7	120	25.	71
			2.3	68000	23.5	--	5.0	78	45.	--
FEB 05, 75	1345	4	.3	51000	19.6	8.5	9.4	124	5.	69
			1.5	51000	19.5	8.5	9.3	122	5.	--
			2.3	51000	19.5	8.4	9.1	120	15.	--
JUN 04, 75	1330	4	.3	55000	27.0	8.5	5.7	89	0.	1080
			1.8	54000	26.7	8.5	6.7	105	5.	--
				LINE 134						
OCT 23, 74	1305	1	.3	68000	24.0	--	6.6	103	45.	64
			1.2	69000	24.0	--	6.2	97	50.	--
FEB 05, 75	1130	1	.3	51000	18.0	8.2	6.4	82	20.	59
			1.8	51000	17.9	8.2	6.2	79	30.	--

TABLE 9A--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 134 CONTINUED						
JUN 04, 75	1200	1	.3	50000	28.0	8.8	--	--	50.	390
			1.2	48000	27.8	8.6	--	--	60.	--
OCT 23, 74	1315	2	.3	70000	24.0	--	6.3	100	20.	71
			1.5	70000	23.5	--	5.8	91	20.	--
			3.0	70000	23.5	--	5.1	80	20.	--
			4.6	72000	23.5	--	5.1	80	20.	--
FEB 05, 75	1150	2	.3	50000	19.0	8.5	7.5	97	10.	83
			1.5	50000	19.0	8.5	7.6	99	5.	--
			3.0	50000	18.7	8.4	7.6	99	5.	--
			4.6	50000	18.5	8.4	7.0	90	15.	--
JUN 04, 75	1215	2	.3	45000	26.6	8.5	5.1	76	20.	1250
			2.1	45000	26.6	8.5	5.0	75	5.	--
			4.0	50000	26.6	8.6	5.0	75	5.	--
				LINE 157						
OCT 23, 74	1155	2	.3	60000	23.0	--	6.6	97	20.	91
			1.5	60000	23.0	--	6.4	94	20.	--
			3.0	63000	22.5	--	5.5	81	30.	--
			4.6	63000	22.0	--	4.9	72	30.	--
			5.5	64000	22.5	--	4.2	64	40.	--
FEB 05, 75	1020	2	.3	50000	17.6	8.3	6.8	87	10.	83
			1.5	50000	17.7	8.3	6.8	87	5.	--
			3.0	50000	17.7	8.3	6.6	85	10.	--
			5.2	50000	17.7	8.3	6.8	87	20.	--
JUN 04, 75	1115	2	.3	50000	27.4	8.7	--	--	5.	1330
			2.4	50000	27.1	8.7	--	--	--	--
			4.9	50000	27.0	8.5	--	--	5.	--
				LINE 163						
OCT 23, 74	1130	2	.3	57000	24.0	--	6.0	90	20.	81
			1.5	60000	23.5	--	5.8	85	20.	--
			3.0	60000	23.0	--	5.3	78	20.	--
			4.4	60000	23.0	--	5.2	76	40.	--
FEB 05, 75	0950	2	.3	50000	19.3	8.4	6.9	91	5.	69
			1.5	50000	19.3	8.4	6.9	91	5.	--
			4.0	50000	19.3	8.4	7.0	92	45.	--
JUN 04, 75	1100	2	.3	42000	26.9	8.7	--	--	20.	690
			2.1	43000	26.8	8.6	--	--	20.	--
			4.0	44000	26.5	8.5	--	--	30.	--
				LINE 175						
OCT 23, 74	1105	1	.3	52000	23.5	--	6.9	99	10.	114
			1.4	52000	24.0	--	6.9	100	20.	--
JUN 04, 75	1030	1	.3	52000	26.5	8.5	--	--	25.	610
			1.5	52000	26.0	8.5	--	--	45.	--
OCT 23, 74	1050	2	.3	50000	24.0	--	6.9	99	15.	142
			1.5	52000	23.5	--	6.6	94	20.	--
			3.0	58000	23.0	--	2.1	31	40.	--
			4.9	61000	23.0	--	1.8	27	40.	--
FEB 05, 75	0910	2	.3	51000	19.8	8.5	6.3	84	20.	22
			1.5	51000	19.8	8.5	7.0	93	100.	--
			3.7	51000	19.7	8.5	7.3	96	250.	--
JUN 04, 75	1000	2	.3	50000	27.0	8.5	--	--	20.	640

TABLE 9A--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 175 CONTINUED						
JUN 04, 75	1000	2	2.1	50000	26.9	8.5	--	--	20.	--
			4.3	50000	26.5	8.5	--	--	35.	--
OCT 23, 74	1040	3	.3	49000	24.0	--	5.9	84	0.	135
			1.7	50000	24.5	--	5.1	74	35.	--
FEB 05, 75	0920	3	.3	50000	19.3	8.5	7.0	92	5.	69
			1.7	50000	19.5	8.5	6.8	89	5.	--
JUN 04, 75	1015	3	.3	50000	27.0	8.4	--	--	30.	660
			3.2	50000	26.5	8.4	--	--	30.	--
				LINE 188						
OCT 23, 74	0945	1	.3	50000	24.0	--	6.1	87	50.	76
			.8	50000	24.0	--	6.4	91	50.	--
FEB 04, 75	1645	1	.3	50000	20.2	8.8	16.1	215	10.	90
			.9	50000	20.2	8.8	15.3	204	15.	--
JUN 04, 75	0945	1	.3	52000	26.0	8.5	8.0	121	20.	580
			.9	52000	26.0	8.5	8.2	124	20.	--
OCT 23, 74	1005	2	.3	49000	23.5	--	6.8	97	10.	127
			1.5	50000	23.5	--	6.7	96	60.	--
			3.0	55000	23.0	--	3.4	49	80.	--
			4.6	61000	23.0	--	2.2	33	50.	--
FEB 04, 75	1700	2	.3	49000	20.5	8.8	14.5	196	10.	73
			1.5	51000	20.4	8.7	13.5	182	20.	--
			4.0	51000	20.5	8.7	13.1	177	30.	--
FEB 05, 75	0845	2	.3	49000	19.6	8.4	6.7	88	10.	68
			1.5	49000	19.5	8.4	6.7	88	10.	--
			4.1	50000	19.1	8.3	5.8	75	20.	--
JUN 04, 75	0930	2	.3	48000	26.9	8.4	6.4	97	--	610
			1.8	48000	26.8	8.4	6.9	105	500.	--
			3.7	48000	26.8	8.4	6.7	102	120.	--
OCT 23, 74	1020	3	.3	41000	24.0	--	6.9	95	10.	114
			1.7	49000	24.0	--	5.0	71	25.	--
FEB 04, 75	1710	3	.3	45000	20.4	8.7	16.5	217	10.	74
			1.5	46000	20.2	8.7	14.1	183	20.	--
JUN 04, 75	0915	3	.3	55000	27.0	8.4	5.5	86	40.	460
			.9	55000	26.1	8.4	5.9	91	40.	--
				LINE 194						
OCT 22, 74	1730	1	.6	48000	25.3	7.9	8.1	117	20.	61
			3.0	48000	25.3	7.9	8.0	116	20.	--
			7.6	48000	25.5	7.9	8.1	119	40.	--
OCT 22, 74	1745	2	.3	48000	26.2	8.0	6.9	101	35.	36
			1.5	48000	26.2	8.0	6.9	101	35.	--
			4.0	48000	25.8	8.0	6.6	97	75.	--
FEB 04, 75	1600	2	.3	48000	18.5	8.4	13.9	178	20.	65
			1.5	48000	18.5	8.4	15.1	194	15.	--
			3.0	48000	18.4	8.4	12.3	156	20.	--
			5.8	48000	18.6	8.4	12.1	155	15.	--
OCT 22, 74	1800	3	.3	40000	25.2	8.0	6.7	93	10.	76
			1.5	48000	24.0	8.0	6.3	89	20.	--
			3.0	48000	23.6	7.9	5.0	70	20.	--

TABLE 9A--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 194 CONTINUED						
OCT 22, 74	1800	3	4.1	48000	23.6	7.9	5.0	70	30.	--
FEB 04, 75	1620	3	.3	48000	20.3	8.7	12.6	168	10.	74
			1.5	50000	20.0	8.6	12.3	164	15.	--
			3.0	50000	19.9	8.6	10.7	143	15.	--
			4.3	50000	19.6	8.6	9.4	124	110.	--
JUN 03, 75	1710	3	.3	47000	27.4	--	7.2	107	--	74
			1.5	52000	27.2	--	7.0	108	--	--
			3.0	52000	26.0	--	5.9	89	--	--
			4.6	42000	26.0	--	6.2	90	--	--
OCT 22, 74	1730	4	.3	41000	25.0	7.4	8.1	112	20.	50
			1.5	46000	23.5	7.3	6.5	90	10.	--
			3.0	46000	23.0	7.2	5.2	71	10.	--
			4.6	51000	22.0	7.2	.6	8	20.	--
			5.9	57000	22.0	7.0	.0	0	45.	--
JUN 03, 75	1630	4	.3	49000	27.1	8.4	12.7	192	30.	830
			3.4	49000	27.0	8.4	12.1	183	20.	--
			6.7	49000	26.9	8.4	11.9	180	15.	--
JUN 03, 75	1725	4	.3	44000	29.0	--	6.6	103	--	41
			1.5	46000	29.0	--	6.8	106	--	--
			3.0	48000	26.8	--	5.1	76	--	--
			4.6	48000	26.0	--	1.5	22	--	--
				LINE 203						
OCT 22, 74	1630	2	.3	44000	25.0	7.3	6.5	93	0.	98
			1.5	44000	24.5	7.3	6.4	91	5.	--
			3.0	44000	24.0	7.3	6.2	87	10.	--
			4.0	44000	24.0	7.3	6.2	87	20.	--
FEB 04, 75	1405	2	.3	45000	20.7	8.6	11.5	151	10.	53
			1.5	45000	20.4	8.6	12.4	163	25.	--
			4.0	45000	19.8	8.6	10.2	132	20.	--
JUN 03, 75	1520	2	.3	48000	27.1	8.5	11.5	172	5.	670
			1.5	48000	27.0	8.5	11.8	176	0.	--
			2.1	48000	26.5	8.5	14.3	210	20.	--
				LINE 217						
OCT 22, 74	1550	2	.3	29000	26.0	7.4	8.1	109	0.	60
			1.5	30000	25.0	7.4	7.5	100	5.	--
			3.0	30000	24.0	7.4	5.9	78	15.	--
			5.2	37000	24.5	7.3	4.7	64	20.	--
FEB 04, 75	1350	2	.3	43000	19.4	8.5	10.6	134	25.	53
			1.5	45000	19.0	8.4	10.3	130	55.	--
			3.0	45000	18.6	8.4	10.1	128	35.	--
			5.2	45000	18.6	8.4	9.7	123	220.	--
JUN 03, 75	1445	2	.3	48000	27.1	8.6	9.7	145	35.	540
			2.1	47000	26.9	8.6	9.5	142	--	--
			4.6	47000	26.6	8.6	10.9	163	30.	--
				LINE 223						
OCT 22, 74	1435	2	.3	4000	25.6	7.5	8.4	102	65.	28
			.9	4100	24.9	7.4	6.7	81	--	--
			1.2	4400	24.7	7.4	6.0	72	100.	--
FEB 04, 75	1535	2	.3	5100	20.3	7.6	5.7	64	120.	--
			1.2	5100	20.1	7.7	6.1	68	135.	--

TABLE 9A--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
					LINE 223 CONTINUED					
JUN 03, 75	1500	2	.3	3900	28.0	--	8.4	108	--	18
			1.2	3700	27.5	--	7.9	100	--	--
					LINE 233					
OCT 22, 74	1515	2	.3	9200	25.1	8.1	11.6	141	30.	56
			1.5	10000	24.9	8.0	9.2	112	25.	--
			1.8	14000	24.2	7.4	3.9	48	20.	--
			2.4	17000	24.2	7.4	2.9	36	20.	--
			3.0	22000	24.1	7.3	1.0	13	20.	--
			4.9	31000	24.5	7.4	.8	9	70.	--
FEB 04, 75	1615	2	.3	14000	20.2	8.0	11.4	150	10.	69
			1.2	16000	19.8	7.9	7.7	89	--	--
			1.5	18000	19.6	7.7	4.4	50	10.	--
			3.0	24000	19.5	7.6	.7	8	15.	--
			4.9	32000	18.8	7.6	.0	0	20.	--
JUN 03, 75	1530	2	.3	6000	28.4	--	11.8	153	--	72
			1.5	10000	28.0	--	4.8	62	--	--
			2.4	20000	27.6	--	.9	12	--	--
			4.9	42000	27.0	--	.0	0	--	--
					LINE 247					
OCT 22, 74	1600	2	.3	17000	25.1	8.0	9.9	125	10.	69
			1.5	18000	25.1	8.0	9.9	125	10.	--
			2.4	18000	23.7	7.7	4.3	53	10.	--
			3.0	28000	22.9	7.5	.0	0	10.	--
			4.6	35000	22.5	7.5	.0	0	30.	--
FEB 04, 75	1700	2	.3	21000	20.9	8.2	9.3	111	5.	100
			1.5	25000	21.2	7.9	6.6	80	10.	--
			3.0	36000	22.1	7.9	2.1	27	10.	--
			4.9	41000	22.1	7.8	.9	12	60.	--
JUN 03, 75	1610	2	.3	11000	29.0	--	16.0	213	--	50
			2.1	30000	27.0	--	2.3	32	--	--
			4.3	46000	26.0	--	.0	0	--	--
					LINE 258					
OCT 22, 74	1315	2	.3	23000	24.5	7.6	7.6	97	10.	89
			1.5	25000	23.5	7.6	5.9	75	10.	--
			3.0	32000	24.0	7.6	5.1	67	10.	--
			4.9	34000	24.0	7.4	1.8	24	120.	--
FEB 04, 75	1315	2	.3	26000	21.2	8.7	11.4	139	5.	83
			1.5	32000	21.2	8.6	9.4	118	10.	--
			3.0	42000	20.0	8.5	7.8	100	5.	--
			4.6	45000	19.3	8.3	8.5	109	65.	--
JUN 03, 75	1420	2	.3	40000	28.2	8.6	15.9	234	50.	580
			1.8	45000	26.0	8.6	9.8	144	70.	--
			4.0	44000	26.2	8.6	9.6	141	95.	--
					LINE 263					
OCT 22, 74	1250	2	.3	36000	24.5	7.5	6.1	82	10.	57
			1.5	36000	24.0	7.5	5.8	77	15.	--
			3.0	36000	23.0	7.5	5.2	68	20.	--
			4.6	36000	23.5	7.5	5.4	71	25.	--
FEB 04, 75	1200	2	.3	41000	19.4	8.5	9.2	115	20.	56
			1.5	41000	18.9	8.5	8.7	109	20.	--

TABLE 5A--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
				LINE 263 CONTINUED						
FEB 04, 75	1200	2	4.3	43000	18.8	8.4	6.7	84	15.	--
JUN 03, 75	1400	2	.3	40000	27.2	8.5	10.3	149	40.	430
			2.1	42000	26.6	8.5	9.9	146	50.	--
			4.3	46000	26.4	8.5	9.6	141	100.	--
				LINE 274						
OCT 22, 74	1210	1	.3	47000	24.0	7.7	6.6	93	0.	107
			1.1	47000	24.0	7.7	6.7	94	15.	--
FEB 04, 75	1110	1	.3	45000	19.7	8.3	6.8	87	10.	62
			.9	45000	19.6	8.3	6.4	82	10.	--
JUN 03, 75	1315	1	.3	49000	26.1	8.5	13.2	197	5.	910
			.9	48000	26.0	8.5	11.8	174	10.	--
OCT 22, 74	1155	2	.3	46000	24.0	7.5	6.6	93	5.	110
			1.4	46000	24.0	7.5	6.8	96	5.	--
FEB 04, 75	1100	2	.3	45000	19.4	8.3	7.0	90	40.	38
			1.2	45000	19.3	8.3	6.8	87	55.	--
JUN 03, 75	1305	2	.3	48000	25.9	8.2	10.4	153	20.	700
			.9	48000	25.9	8.2	9.7	143	40.	--
OCT 22, 74	1145	3	.3	44000	23.5	7.5	6.2	86	10.	86
			1.5	44000	23.0	7.6	6.1	84	10.	--
			4.0	44000	23.0	7.6	5.7	78	30.	--
FEB 04, 75	1035	3	.3	45000	19.3	8.3	6.9	88	35.	46
			1.5	45000	19.3	8.3	6.7	86	45.	--
			3.7	45000	19.3	8.2	6.6	85	80.	--
JUN 03, 75	1300	3	.3	52000	25.8	8.4	8.7	132	90.	720
			2.7	52000	25.1	8.2	8.8	131	65.	--
				LINE 287						
OCT 22, 74	1105	1	.3	47000	24.5	7.7	7.2	103	5.	102
			1.1	47000	24.5	7.7	7.3	104	25.	--
FEB 04, 75	1000	1	.6	48000	20.1	8.3	8.1	107	65.	71
JUN 03, 75	1155	1	.5	53000	26.1	8.2	10.9	168	325.	460
OCT 22, 74	1045	2	.3	47000	24.0	7.7	6.2	87	10.	114
			1.5	47000	24.0	7.7	6.2	87	5.	--
			3.0	47000	24.0	7.7	6.2	87	10.	--
			4.6	47000	24.0	7.8	6.2	87	10.	--
FEB 04, 75	0940	2	.3	48000	20.2	8.4	7.6	100	35.	50
			1.5	48000	20.2	8.4	7.8	103	55.	--
			3.0	48000	20.2	8.3	8.2	108	50.	--
			4.4	48000	20.1	8.3	8.2	108	45.	--
JUN 03, 75	1145	2	.3	52000	25.8	8.3	7.8	118	0.	160
			2.1	52000	25.7	8.3	9.0	136	5.	--
			4.0	52000	25.5	8.4	8.2	124	35.	--
OCT 22, 74	1030	4	.3	48000	23.5	7.8	6.4	89	10.	122
			1.5	48000	23.5	7.8	6.2	86	10.	--
			2.9	48000	23.5	7.8	6.4	89	5.	--
FEB 04, 75	0925	4	.3	49000	19.9	8.3	6.4	85	20.	39
			1.5	49000	19.6	8.2	6.7	88	--	--
			2.1	49000	19.9	8.2	6.6	88	50.	--

TABLE 9A--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 287 CONTINUED					
JUN 03, 75	1130	4	.3	53000	26.0	8.3	8.2	126	15.	590
			2.1	54000	25.1	8.2	7.4	112	65.	--
					LINE 297					
OCT 22, 74	0950	2	.3	48000	23.5	7.9	5.6	78	30.	88
			1.5	48000	23.5	7.9	5.7	79	55.	--
			4.7	48000	23.2	7.8	5.4	75	70.	--
FEB 04, 75	1040	2	.3	49000	20.3	8.0	7.1	96	20.	77
			1.5	48000	20.3	8.0	7.3	97	60.	--
			3.0	40000	20.4	8.0	7.5	96	30.	--
			4.6	46000	20.4	8.0	7.3	96	30.	--
JUN 03, 75	1015	2	.3	53000	26.6	--	6.7	105	--	105
			1.5	53000	26.5	--	5.8	88	--	--
			3.7	53000	26.5	--	6.4	97	--	--
					LINE 301					
OCT 22, 74	0935	2	.3	48000	23.9	7.9	7.1	100	10.	116
			1.5	48000	23.9	7.9	7.0	99	10.	--
			3.0	48000	23.7	7.9	5.6	79	10.	--
			6.4	48000	23.7	7.9	5.6	79	20.	--
FEB 04, 75	1035	2	.3	48000	20.3	8.0	7.1	95	20.	25
			1.5	48000	20.2	8.0	7.1	93	20.	--
			3.0	48000	20.2	8.0	7.2	95	20.	--
			6.1	48000	20.1	7.9	7.4	97	20.	--
JUN 03, 75	1005	2	.3	52000	26.0	--	5.7	86	--	55
			1.5	52000	26.0	--	5.7	86	--	--
			3.0	52000	26.0	--	5.7	86	--	--
			4.6	52000	26.0	--	5.8	88	--	--
					LINE 313					
OCT 22, 74	1025	2	.3	48000	24.2	7.9	7.1	100	10.	113
			3.0	48000	24.0	7.9	7.0	99	10.	--
			6.1	48000	23.9	7.9	6.9	97	10.	--
			9.1	48000	23.8	7.9	6.2	87	55.	--
FEB 04, 75	1105	2	.3	46000	20.2	8.0	7.4	96	10.	83
			1.5	46000	20.2	8.0	7.4	96	15.	--
			3.0	46000	20.2	8.0	7.4	96	15.	--
			6.1	46000	20.2	7.9	7.4	96	15.	--
			8.8	48000	20.1	7.9	7.4	97	10.	--
JUN 03, 75	1030	2	.3	52000	26.4	--	6.1	92	--	114
			4.6	52000	26.1	--	5.8	88	--	--
			8.2	52000	26.0	--	4.8	73	--	--
					LINE 320					
OCT 22, 74	1150	2	.3	48000	25.0	7.7	4.9	71	0.	257
			3.0	48000	24.9	7.7	4.7	68	5.	--
			6.1	48000	24.9	7.7	4.4	64	5.	--
			9.1	48000	24.6	7.7	3.2	46	10.	--
			11.6	48000	24.4	7.7	2.5	36	20.	--
FEB 04, 75	1225	2	.3	45000	19.7	7.9	8.6	110	10.	153
			1.5	45000	19.5	7.9	7.8	100	5.	--
			3.0	45000	19.3	7.8	6.9	88	30.	--
			6.1	46000	19.2	7.8	6.4	81	10.	--
			9.1	46000	19.1	7.9	5.2	66	15.	--

TABLE 9A--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 320 CONTINUED						
FEB 04, 75	1225	2	12.2	48000	19.1	7.9	6.3	81	30.	--
JUN 03, 75	1200	2	.3	49000	27.0	--	7.1	108	--	235
			1.5	50000	27.0	--	7.3	111	--	--
			3.0	50000	26.3	--	6.9	103	--	--
			4.6	51000	25.5	--	5.5	81	--	--
			6.1	51000	24.9	--	2.8	41	--	--
			7.6	52000	23.2	--	.0	0	--	--
			9.1	52000	22.4	--	.0	0	--	--
			10.7	54000	22.0	--	.0	0	--	--
				LINE 334						
OCT 22, 74	1130	2	.3	48000	23.8	7.5	4.0	56	10.	89
			1.5	48000	23.8	7.5	3.9	55	20.	--
			3.0	48000	23.8	7.5	3.8	54	40.	--
			6.1	48000	23.7	7.6	4.1	58	60.	--
			9.1	48000	23.7	7.6	4.7	66	10.	--
			11.7	48000	23.6	7.6	2.7	38	35.	--
FEB 04, 75	1205	2	.3	43000	19.8	7.9	7.2	92	10.	84
			1.5	43000	19.7	7.9	6.9	87	0.	--
			3.0	43000	19.4	7.9	6.5	82	0.	--
			6.1	43000	19.6	7.9	6.1	77	40.	--
			9.1	46000	19.6	7.9	5.9	76	10.	--
			12.2	46000	19.5	7.9	6.3	81	15.	--
JUN 03, 75	1140	2	.3	52000	26.4	--	5.7	86	--	130
			1.5	52000	26.4	--	5.8	88	--	--
			4.6	52000	26.0	--	5.5	83	--	--
			7.6	52000	25.0	--	2.7	40	--	--
			10.7	52000	23.0	--	.0	0	--	--
				LINE 343						
OCT 22, 74	1105	2	.3	48000	23.6	7.8	5.5	76	10.	84
			1.5	48000	23.5	7.8	5.7	79	5.	--
			3.0	48000	23.4	7.8	6.5	90	5.	--
			4.6	48000	23.4	7.7	5.7	79	10.	--
			6.1	48000	23.4	7.6	4.6	64	10.	--
			9.1	48000	23.3	7.6	4.1	57	10.	--
			11.9	48000	23.2	7.5	2.4	33	20.	--
FEB 04, 75	1255	2	.3	45000	20.1	7.9	8.0	104	10.	110
			1.5	45000	20.1	7.9	7.8	101	10.	--
			3.0	46000	19.9	7.9	7.3	95	30.	--
			6.1	46000	19.8	7.9	6.4	83	20.	--
			9.1	46000	19.7	7.9	5.8	74	55.	--
			12.2	46000	19.6	7.9	5.4	69	90.	--
JUN 03, 75	1110	2	.3	52000	26.1	--	5.1	77	--	165
			1.5	52000	26.0	--	4.9	74	--	--
			3.0	52000	26.0	--	5.6	85	--	--
			4.6	52000	26.0	--	5.7	86	--	--
			6.1	52000	25.4	--	4.6	69	--	--
			7.6	52000	25.0	--	4.2	63	--	--
			9.1	52000	25.0	--	2.4	36	--	--
			10.4	52000	24.0	--	.1	1	--	--
				LINE 351						
OCT 22, 74	1040	2	.3	48000	23.4	7.8	7.1	99	10.	104
			1.5	48000	23.4	7.8	7.0	97	20.	--
			3.0	48000	23.4	7.8	6.7	93	20.	--
			6.1	48000	23.4	7.8	6.1	85	20.	--
			9.1	48000	23.1	7.6	3.6	50	40.	--

TABLE 9A--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 351 CONTINUED					
OCT 22, 74	1040	2	11.6	48000	23.1	7.6	3.8	53	70.	--
FEB 04, 75	1125	2	.3	48000	20.2	7.9	7.9	104	10.	--
			1.5	48000	20.2	7.9	7.7	101	10.	--
			3.0	50000	20.2	7.9	7.5	100	10.	--
			6.1	51000	20.1	7.9	6.9	92	40.	--
			9.1	51000	19.8	7.9	6.0	80	10.	--
			12.2	51000	20.1	7.9	6.8	91	5.	--
JUN 03, 75	1040	2	.3	52000	26.0	--	6.7	102	--	175
			1.5	53000	26.0	--	6.7	102	--	--
			4.6	52000	25.9	--	6.5	98	--	--
			6.1	53000	25.8	--	6.5	98	--	--
			7.6	53000	25.8	--	6.3	95	--	--
			9.1	53000	25.7	--	5.4	82	--	--
			10.4	53000	25.1	--	4.5	68	--	--
					LINE 370					
OCT 22, 74	0920	2	.3	48000	24.3	7.8	6.9	99	10.	151
			1.5	48000	24.3	7.8	6.9	99	10.	--
			3.0	48000	24.3	7.8	6.8	97	10.	--
			6.1	48000	24.4	7.8	6.2	89	30.	--
			11.3	48000	23.4	7.7	5.1	71	350.	--
FEB 04, 75	0855	2	.3	48000	19.9	8.3	7.3	96	5.	67
			3.0	48000	19.9	8.3	7.4	97	--	--
			11.3	48000	19.8	8.3	7.6	100	--	--
JUN 03, 75	0945	2	.3	52000	26.0	--	6.0	91	--	145
			1.5	52000	26.0	--	6.0	91	--	--
			3.0	52000	26.0	--	5.6	85	--	--
			6.1	52000	26.0	--	6.0	91	--	--
			10.4	53000	26.0	--	5.0	76	--	--
					LINE 903					
FEB 04, 75	1525	90	1.5	47000	18.3	8.6	12.5	158	0.	812
			9.1	47000	18.2	8.5	12.7	161	0.	--
			15.8	46000	18.3	8.5	13.0	163	0.	--
JUN 03, 75	1615	90	.6	49000	26.0	8.3	9.4	140	--	850
			3.0	49000	26.0	8.3	9.6	143	0.	--
			9.1	49000	25.8	8.3	13.0	194	0.	--
			15.8	49000	25.5	8.5	12.5	184	0.	--
OCT 22, 74	0930	95	.3	46000	24.0	7.9	6.5	93	--	--
			6.1	50000	24.2	7.9	6.3	90	10.	--
			12.2	50000	24.5	7.9	6.2	90	10.	--
			16.8	50000	24.5	7.8	5.9	86	25.	--
FEB 04, 75	0820	95	3.0	47000	18.4	8.2	8.2	104	--	800
			17.1	48000	18.6	8.2	8.6	110	--	--
JUN 03, 75	1045	95	.6	51000	25.1	8.3	9.5	140	--	750
			4.6	51000	25.1	8.3	9.8	144	10.	--
			10.7	51000	25.1	8.3	9.7	143	30.	--
			16.8	52000	25.1	8.3	10.3	154	0.	--
					LINE 910					
JUN 03, 75	1010	95	.6	50000	25.1	8.4	12.5	184	0.	610
			3.0	51000	25.0	8.3	12.4	182	--	--
			7.6	51000	25.0	8.2	11.9	175	--	--
			15.2	52000	25.0	8.2	10.8	161	--	--
			21.3	53000	23.5	8.2	10.9	156	--	--

TABLE 9A--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
LINE 91C CONTINUED										
JUN 03, 75	1010	95	29.4	54000	23.5	8.2	11.1	163	10.	--

TABLE 9B--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 23						
OCT 23, 74	1615	3	.3	2.2	.01	.01	.00	--	.07	3.1	0	9.4
			5.8	2.5	.01	.01	.00	--	.07	2.7	0	5.6
FEB 05, 75	1715	3	.3	2.6	.00	.05	.00	--	.05	1.8	1	3.4
			5.8	--	.00	.06	.00	--	.06	1.8	0	--
JUN 04, 75	1620	3	.3	8.2	.00	.00	.02	--	.09	3.4	3	17.0
			5.5	8.6	.00	.00	.02	--	.16	5.8	3	19.0
						LINE 53						
OCT 23, 74	1515	1	.3	--	.00	.00	.00	--	.08	3.1	--	--
			1.7	--	.00	.00	.01	--	.08	3.5	--	--
FEB 05, 75	1530	2	.3	--	.00	.09	.00	--	.05	1.4	--	--
			4.4	--	.00	.14	.00	--	.06	1.6	--	--
						LINE 64						
OCT 23, 74	1110	2	.3	--	.00	.00	.01	--	.13	5.6	--	--
			1.7	--	.00	.00	.00	--	.14	7.4	--	--
FEB 05, 75	1410	2	.3	--	.00	.10	.00	--	.13	6.7	--	--
			1.2	--	.00	.11	.00	--	.15	6.9	--	--
JUN 04, 75	1350	2	.3	--	.01	.00	.00	--	.09	3.1	--	--
			1.5	--	.00	.01	.01	--	.10	3.3	--	--
						LINE 74						
OCT 23, 74	1140	2	.3	10.0	.00	.01	.00	--	.14	3.9	0	16.0
			1.5	--	.00	.01	.00	--	.17	4.4	--	--
JUN 04, 75	1155	2	.3	7.9	.00	.00	.01	--	.18	3.8	0	21.0
			1.5	8.0	.00	.00	.00	--	.27	4.1	--	--
FEB 05, 75	1340	3	.3	10.0	.08	.28	.07	--	.23	2.3	1	11.0
			1.5	--	.06	.25	.06	--	.23	2.0	--	--
						LINE 94						
OCT 23, 74	1300	2	.3	--	.00	.00	.00	--	.13	3.7	--	--
			1.5	--	.00	.00	.00	--	.14	3.9	--	--
FEB 05, 75	1250	2	.3	--	.07	.18	.02	--	.09	1.4	--	--
			1.5	--	.07	.18	.02	--	.09	1.4	--	--
JUN 04, 75	1305	2	.3	--	.03	.02	.01	--	.21	2.8	--	--
			1.2	--	.03	.03	.01	--	.20	3.1	--	--
						LINE 107						
OCT 23, 74	1350	2	.3	--	.01	.01	.00	--	.11	4.5	0	12.0
			2.4	--	.00	.01	.00	--	.11	4.2	--	--
FEB 05, 75	1210	2	.3	--	.02	.08	.01	--	.08	1.3	2	8.9
			2.4	--	.01	.11	.01	--	.30	3.1	--	--
JUN 04, 75	1415	2	.5	--	.04	.01	.04	--	.09	3.0	2	12.0
			1.8	--	.04	.01	.03	--	.11	2.9	--	--
						LINE 125						
OCT 23, 74	1405	3	.3	5.7	.00	.01	.00	--	.11	5.7	0	15.0

TABLE 9B--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 125 CONTINUED						
OCT 23, 74	1405	3	5.2	4.9	.00	.14	.01	--	.13	5.3	0	18.0
FEB 05, 75	1330	3	.3	4.2	.00	.00	.01	--	.05	2.8	5	11.0
			5.2	--	.00	.01	.00	--	.09	2.3	0	--
JUN 04, 75	1330	4	.3	4.3	.00	.05	.01	--	.06	2.6	3	13.0
			1.8	4.2	.00	.04	.01	--	.06	1.8	3	8.3
						LINE 163						
OCT 23, 74	1130	2	.3	3.5	.00	.02	.00	--	.08	3.6	--	--
			4.4	3.8	.00	.06	.01	--	.08	4.3	--	--
FEB 05, 75	0950	2	.3	4.3	.00	.01	.00	--	.06	2.1	--	--
			4.0	--	.00	.09	.01	--	.07	1.7	--	--
JUN 04, 75	1100	2	.3	--	.00	.00	.00	--	.04	1.4	--	--
			4.0	3.1	.00	.02	.01	--	.05	1.7	--	--
						LINE 188						
OCT 23, 74	1005	2	.3	--	.00	.00	.00	--	.06	3.7	0	13.0
			4.6	--	.00	.09	.01	--	.13	3.8	--	--
FEB 04, 75	1700	2	.3	--	.00	.04	.01	--	.07	3.4	2	9.4
			4.0	--	.00	.01	.00	--	.08	2.1	--	--
JUN 04, 75	0930	2	.3	--	.00	.00	.00	--	.05	2.4	0	9.4
			3.7	--	.00	.01	.01	--	.09	2.5	1	8.8
						LINE 194						
OCT 22, 74	1730	4	.3	--	.08	.01	.00	--	.08	4.6	0	5.6
			5.9	--	.01	.65	.00	--	.20	7.6	0	8.4
JUN 03, 75	1725	4	.3	--	.00	.01	.01	--	.07	3.0	0	16.0
			4.6	--	.00	.10	.01	--	.06	2.4	0	10.0
						LINE 217						
OCT 22, 74	1550	2	.3	--	.01	.01	.00	--	.09	5.0	0	13.0
			5.2	--	.00	.12	.01	--	.13	4.5	0	14.0
FEB 04, 75	1350	2	.3	--	.07	.11	.01	--	.07	2.0	1	5.9
			5.2	--	.03	.06	.00	--	.17	1.8	0	--
JUN 03, 75	1445	2	.3	--	.00	.00	.01	--	.06	2.3	5	10.0
			4.6	--	.00	.00	.01	--	.06	1.8	5	6.4
						LINE 223						
OCT 22, 74	1435	2	1.2	--	.61	.40	.04	--	.58	6.3	--	--
FEB 04, 75	1535	2	.3	25.0	1.60	1.30	.20	--	.96	5.8	19	9.6
			1.2	23.0	.90	.58	.10	--	.84	5.5	13	9.9
JUN 03, 75	1500	2	.3	19.0	2.40	.12	.12	--	.39	5.6	0	13.0
			1.2	18.0	2.20	.15	.11	--	.51	4.6	0	11.0
						LINE 233						
OCT 22, 74	1515	2	.3	--	.56	.03	.05	--	.38	9.3	4	7.6
FEB 04, 75	1615	2	4.9	11.0	.09	.53	.06	--	.35	2.9	--	--

TABLE 98--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 247						
OCT 22, 74	1600	2	.3	--	.12	.15	.03	--	.27	6.3	0	7.8
			4.6	--	.00	.84	.00	--	.24	6.1	0	11.0
FEB 04, 75	1700	2	.3	--	.84	.22	.08	--	.32	4.3	0	20.0
			4.9	--	.09	.40	.02	--	.31	3.3	0	11.0
JUN 03, 75	1610	2	.3	--	2.80	.01	.18	--	.15	8.2	0	12.0
			4.3	--	.02	.43	.01	--	.22	4.0	0	3.4
						LINE 263						
OCT 22, 74	1250	2	.3	--	.00	.01	.01	--	.06	2.7	0	12.0
			4.6	--	.00	.02	.01	--	.08	2.4	0	7.4
FEB 04, 75	1200	2	.3	--	.19	.17	.02	--	.12	3.1	1	6.4
			4.3	--	.07	.16	.01	--	.10	2.1	0	--
JUN 03, 75	1400	2	.3	--	.10	.00	.01	--	.08	2.3	0	8.1
			4.3	--	.04	.11	.01	--	.24	2.0	8	32.0
						LINE 274						
OCT 22, 74	1210	1	.3	--	.00	.01	.01	--	.04	2.0	0	8.4
			1.1	--	.00	.01	.00	--	.05	2.2	--	--
FEB 04, 75	1110	1	.9	--	.00	.05	.00	--	.05	1.4	0	8.1
JUN 03, 75	1315	1	.3	--	.00	.00	.01	--	.04	1.1	0	3.9
						LINE 287						
OCT 22, 74	1105	1	.3	1.3	.01	.00	.00	--	.04	2.0	--	--
			1.1	--	.01	.00	.00	--	.13	3.0	--	--
FEB 04, 75	1000	1	.6	1.2	.00	.02	.00	--	.05	1.2	--	--
JUN 03, 75	1155	1	.5	2.1	.00	.01	.01	--	.27	1.2	--	12.0
OCT 22, 74	1030	4	.3	--	.00	.01	.01	--	.04	2.2	2	3.0
			2.9	--	.00	.01	.01	--	.06	2.1	0	4.7
FEB 04, 75	0925	4	.3	--	.01	.08	.00	--	.11	1.5	0	12.0
			2.1	--	.00	.09	.00	--	.07	1.2	0	--
JUN 03, 75	1130	4	.3	--	.00	.00	.01	--	.05	1.1	10	11.0
			2.1	--	.00	.03	.01	--	.13	1.0	11	--
						LINE 297						
OCT 22, 74	0950	2	.3	--	.00	.02	.01	--	.06	2.2	0	10.0
			4.7	--	.00	.05	.01	--	.08	2.3	2	13.0
FEB 04, 75	1040	2	.3	--	.00	.05	.00	--	.07	1.4	0	4.3
			4.6	--	.00	.01	.00	--	.08	1.1	1	5.8
JUN 03, 75	1015	2	.3	--	.00	.01	.01	--	.04	1.3	1	13.0
			3.7	--	.00	.04	.01	--	.07	1.2	0	8.4
						LINE 320						
OCT 22, 74	1150	2	.3	--	.01	.10	.02	--	.09	2.4	2	8.9

TABLE 98--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 320 CONTINUED						
OCT 22, 74	1150	2	11.6	2.2	.00	.17	.01	--	.11	2.3	4	14.0
FEB 04, 75	1225	2	.3	.6	.00	.07	.01	--	.08	2.2	3	4.2
			12.2	1.2	.02	.07	.02	--	.23	1.0	1	7.5
JUN 03, 75	1200	2	.3	.1	.00	.18	.01	--	.04	1.3	0	--
			10.7	4.4	.01	.24	.05	--	.15	1.3	0	2.6
						LINE 351						
OCT 22, 74	1040	2	.3	--	.00	.02	.01	--	.06	2.1	2	11.0
			11.6	--	.00	.07	.01	--	.33	2.4	0	3.2
FEB 04, 75	1125	2	.3	--	.00	.12	.01	--	.07	1.5	3	4.7
			12.2	--	.01	.07	.01	--	.34	1.1	0	3.8
JUN 03, 75	1040	2	.3	--	.00	.03	.01	--	.04	1.3	0	7.9
			10.4	--	.00	.07	.01	--	.06	1.3	0	6.8
						LINE 370						
OCT 22, 74	0920	2	.3	--	.01	.01	.01	--	.04	1.8	--	--
			11.3	--	.00	.10	.01	--	.74	2.7	--	--
FEB 04, 75	0855	2	.3	--	.00	.00	.00	--	.05	1.6	--	--
			11.3	--	.00	.01	.00	--	.07	1.5	--	--
JUN 03, 75	0945	2	.3	--	.00	.00	.01	--	.04	1.0	--	2.7
			10.4	--	.00	.05	.01	--	.08	1.1	--	--
						LINE 903						
FEB 04, 75	1525	90	1.5	--	.00	.09	.00	--	.04	1.0	0	7.3
			15.8	--	.01	.09	.00	--	.04	1.2	0	--
JUN 03, 75	1615	90	.6	--	.00	.00	.00	--	.03	1.0	0	14.0
			15.8	--	.00	.01	.01	--	.04	.9	5	6.9
OCT 22, 74	0930	95	.3	1.1	.02	.01	.00	--	.05	2.1	--	--
			16.8	--	.00	.01	.01	--	.05	1.9	2	11.0
FEB 04, 75	0820	95	3.0	--	.00	.06	.00	--	.04	1.5	0	2.2
			17.1	.5	.01	.08	.00	--	.07	1.4	0	7.2
JUN 03, 75	1045	95	.6	.1	.00	.00	.01	--	.04	.7	0	8.2
			16.8	.1	.01	.00	.00	--	.04	1.1	7	3.0
						LINE 910						
JUN 03, 75	1010	95	.6	--	.00	.00	.01	--	.03	1.1	--	--
			24.4	--	.00	.00	.01	--	.06	.9	--	--

TABLE 9C--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
						LINE 23						
OCT 23, 74	1615	3	.3	46200	380.0	1100.0	9200	380.0	159	2300	17000	30400
			5.8	46200	380.0	860.0	9900	380.0	162	2300	17000	30900
FEB 05, 75	1715	3	.3	41100	370.0	1000.0	8500	360.0	167	2000	15000	27300
			5.8	40800	--	--	--	--	--	--	--	--
JUN 04, 75	1620	3	.3	59700	510.0	1300.0	13000	470.0	183	3100	22000	40500
			5.5	60900	520.0	1400.0	13000	470.0	184	3100	23000	41600
						LINE 53						
OCT 23, 74	1515	1	.3	61500	--	--	--	--	--	--	--	--
			1.7	62900	--	--	--	--	--	--	--	--
FEB 05, 75	1530	2	.3	47800	--	--	--	--	--	--	--	--
			4.4	48500	--	--	--	--	--	--	--	--
						LINE 64						
OCT 23, 74	1110	2	.3	55900	--	--	--	--	--	--	--	--
			1.7	55700	--	--	--	--	--	--	--	--
FEB 05, 75	1410	2	.3	55000	--	--	--	--	--	--	--	--
			1.2	38200	--	--	--	--	--	--	--	--
JUN 04, 75	1350	2	.3	64900	--	--	--	--	--	--	--	--
			1.5	65000	--	--	--	--	--	--	--	--
						LINE 74						
OCT 23, 74	1140	2	.3	52900	450.0	1300.0	10000	420.0	150	3000	19000	34300
			1.5	53500	--	--	--	--	--	--	--	--
JUN 04, 75	1155	2	.3	65400	630.0	1400.0	15000	500.0	176	3500	25000	46100
			1.5	66600	610.0	1400.0	15000	500.0	179	3500	25000	46100
FEB 05, 75	1340	3	.3	52700	530.0	1300.0	11000	420.0	172	2500	19000	34800
			1.5	52500	--	--	--	--	--	--	--	--
						LINE 94						
OCT 23, 74	1300	2	.3	59500	--	--	--	--	--	--	--	--
			1.5	59300	--	--	--	--	--	--	--	--
FEB 05, 75	1250	2	.3	52800	--	--	--	--	--	--	--	--
			1.5	53200	--	--	--	--	--	--	--	--
JUN 04, 75	1305	2	.3	63800	--	--	--	--	--	--	--	--
			1.2	63600	--	--	--	--	--	--	--	--
						LINE 107						
OCT 23, 74	1350	2	.3	61800	--	--	--	--	--	--	--	--
			2.4	62800	--	--	--	--	--	--	--	--
FEB 05, 75	1210	2	.3	50700	--	--	--	--	--	--	--	--
			2.4	50200	--	--	--	--	--	--	--	--
JUN 04, 75	1415	2	.5	62400	--	--	--	--	--	--	--	--
			1.8	62400	--	--	--	--	--	--	--	--
						LINE 125						
OCT 23, 74	1405	3	.3	67900	540.0	1700.0	14000	580.0	174	3700	26000	46600

TABLE 9C--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
						LINE 125 CONTINUED						
OCT 23, 74	1405	3	5.2	69400	590.0	1300.0	15000	600.0	172	2800	27000	48400
FEB 05, 75	1330	3	.3	49300	470.0	1300.0	11000	430.0	180	2700	20000	36000
			5.2	49300	--	--	--	--	--	--	--	--
JUN 04, 75	1330	4	.3	55000	470.0	1200.0	12000	430.0	146	3500	20000	37800
			1.8	54400	480.0	1400.0	12000	420.0	147	2700	21000	38100
						LINE 163						
OCT 23, 74	1130	2	.3	56800	450.0	1500.0	12000	500.0	145	3200	22000	39700
			4.4	60300	530.0	1500.0	13000	520.0	148	3200	23000	41800
FEB 05, 75	0950	2	.3	47600	470.0	1200.0	11000	430.0	319	2700	19000	35000
			4.0	47100	--	--	--	--	--	--	--	--
JUN 04, 75	1100	2	.3	41800	--	--	--	--	--	--	--	--
			4.0	44200	380.0	1000.0	9400	350.0	131	2400	16000	29600
						LINE 188						
OCT 23, 74	1005	2	.3	48800	--	--	--	--	--	--	--	--
			4.6	61300	--	--	--	--	--	--	--	--
FEB 04, 75	1700	2	.3	47800	--	--	--	--	--	--	--	--
			4.0	50400	--	--	--	--	--	--	--	--
JUN 04, 75	0930	2	.3	48500	--	--	--	--	--	--	--	--
			3.7	48500	--	--	--	--	--	--	--	--
						LINE 194						
OCT 22, 74	1730	4	.3	40800	--	--	--	--	--	--	--	--
			5.9	57300	--	--	--	--	--	--	--	--
JUN 03, 75	1725	4	.3	44300	--	--	--	--	--	--	--	--
			4.6	48500	--	--	--	--	--	--	--	--
						LINE 217						
OCT 22, 74	1550	2	.3	29400	--	--	--	--	--	--	--	--
			5.2	36600	--	--	--	--	--	--	--	--
FEB 04, 75	1350	2	.3	42100	--	--	--	--	--	--	--	--
			5.2	42500	--	--	--	--	--	--	--	--
JUN 03, 75	1445	2	.3	47600	--	--	--	--	--	--	--	--
			4.6	47400	--	--	--	--	--	--	--	--
						LINE 223						
OCT 22, 74	1435	2	1.2	4380	--	--	--	--	--	--	--	--
FEB 04, 75	1535	2	.3	5380	260.0	130.0	920	18.0	298	910	1300	3710
			1.2	5370	280.0	140.0	850	16.0	293	930	1300	3680
JUN 03, 75	1500	2	.3	3890	170.0	79.0	560	12.0	161	640	810	2370
			1.2	3760	160.0	74.0	560	11.0	146	630	790	2320
						LINE 233						
OCT 22, 74	1515	2	.3	9160	--	--	--	--	--	--	--	--
FEB 04, 75	1615	2	4.9	34200	400.0	850.0	7000	270.0	240	2200	13000	23900

TABLE 9C--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
						LINE 247						
OCT 22, 74	1600	2	.3	16800	--	--	--	--	--	--	--	--
			4.6	35000	--	--	--	--	--	--	--	--
FEB 04, 75	1700	2	.3	20300	--	--	--	--	--	--	--	--
			4.9	42400	--	--	--	--	--	--	--	--
JUN 03, 75	1610	2	.3	11400	--	--	--	--	--	--	--	--
			4.3	46000	--	--	--	--	--	--	--	--
						LINE 263						
OCT 22, 74	1250	2	.3	35500	--	--	--	--	--	--	--	--
			4.6	36400	--	--	--	--	--	--	--	--
FEB 04, 75	1200	2	.3	41800	--	--	--	--	--	--	--	--
			4.3	44100	--	--	--	--	--	--	--	--
JUN 03, 75	1400	2	.3	39800	--	--	--	--	--	--	--	--
						LINE 274						
OCT 22, 74	1210	1	.3	46700	--	--	--	--	--	--	--	--
			1.1	47000	--	--	--	--	--	--	--	--
FEB 04, 75	1110	1	.3	45700	--	--	--	--	--	--	--	--
JUN 03, 75	1315	1	.3	48600	--	--	--	--	--	--	--	--
						LINE 287						
OCT 22, 74	1105	1	.3	47200	370.0	870.0	9500	440.0	146	2300	17000	30600
			1.1	47300	--	--	--	--	--	--	--	--
FEB 04, 75	1000	1	.6	48500	350.0	1200.0	10000	410.0	155	2400	18000	32400
JUN 03, 75	1155	1	.5	53300	400.0	1100.0	11000	430.0	150	2500	19000	34500
OCT 22, 74	1030	4	.3	47600	--	--	--	--	--	--	--	--
			2.9	47900	--	--	--	--	--	--	--	--
FEB 04, 75	0925	4	.3	48300	--	--	--	--	--	--	--	--
			2.1	48400	--	--	--	--	--	--	--	--
JUN 03, 75	1130	4	.3	53300	--	--	--	--	--	--	--	--
			2.1	53400	--	--	--	--	--	--	--	--
						LINE 297						
OCT 22, 74	0950	2	.3	47900	--	--	--	--	--	--	--	--
			4.7	48000	--	--	--	--	--	--	--	--
FEB 04, 75	1040	2	.3	48700	--	--	--	--	--	--	--	--
			4.6	48800	--	--	--	--	--	--	--	--
JUN 03, 75	1015	2	.3	53300	--	--	--	--	--	--	--	--
			3.7	52900	--	--	--	--	--	--	--	--
						LINE 320						
OCT 22, 74	1150	2	.3	48400	--	--	--	--	--	--	--	--
			11.6	48400	370.0	1200.0	9500	450.0	160	2500	17000	31100

TABLE 9C--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
LINE 32C CONTINUED												
FEB 04, 75	1225	2	.3	45500	380.0	1100.0	9600	390.0	168	2200	16000	29800
			12.2	49400	400.0	1300.0	10000	420.0	156	2400	18000	32600
JUN 03, 75	1200	2	.3	49100	410.0	1100.0	10000	360.0	152	2500	17000	31400
			10.7	53700	390.0	1200.0	11000	430.0	162	2600	19000	34700
LINE 351												
OCT 22, 74	1040	2	.3	48000	--	--	--	--	--	--	--	--
			11.6	48200	--	--	--	--	--	--	--	--
FEB 04, 75	1125	2	.3	48300	--	--	--	--	--	--	--	--
			12.2	50900	--	--	--	--	--	--	--	--
JUN 03, 75	1040	2	.3	52400	--	--	--	--	--	--	--	--
			10.4	53400	--	--	--	--	--	--	--	--
LINE 370												
OCT 22, 74	0920	2	.3	48000	--	--	--	--	--	--	--	--
			11.3	48300	--	--	--	--	--	--	--	--
FEB 04, 75	0855	2	.3	49200	--	--	--	--	--	--	--	--
			11.3	49300	--	--	--	--	--	--	--	--
JUN 03, 75	0945	2	.3	52100	--	--	--	--	--	--	--	--
			10.4	52900	--	--	--	--	--	--	--	--
LINE 903												
FEB 04, 75	1525	90	1.5	47800	--	--	--	--	--	--	--	--
			15.8	47900	--	--	--	--	--	--	--	--
JUN 03, 75	1615	90	.6	48700	--	--	--	--	--	--	--	--
			15.8	49200	--	--	--	--	--	--	--	--
OCT 22, 74	0930	95	.3	45500	360.0	1000.0	8900	410.0	146	2200	16000	28900
			16.8	50000	--	--	--	--	--	--	--	--
FEB 04, 75	0820	95	3.0	47200	--	--	--	--	--	--	--	--
			17.1	48600	400.0	1200.0	10000	400.0	150	2600	18000	32700
JUN 03, 75	1045	95	.6	50600	370.0	1100.0	11000	380.0	146	2600	18000	33500
			16.8	51700	380.0	1100.0	11000	390.0	148	2500	19000	34400
LINE 910												
JUN 03, 75	1010	95	.6	50200	--	--	--	--	--	--	--	--
			24.4	53700	--	--	--	--	--	--	--	--

TABLE 9D--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 23					
OCT 23, 74	1615	3	.3	30	3	--	--	0	--	--	--
FEB 05, 75	1715	3	.3	--	--	--	--	--	--	--	1.4
JUN 04, 75	1620	3	.3	--	--	--	--	--	--	--	1.8
			5.5	--	--	--	--	--	--	--	1.8
						LINE 53					
OCT 23, 74	1515	1	.3	20	2	3	--	0	0	--	--
						LINE 74					
OCT 23, 74	1140	2	.3	30	10	12	--	0	0	--	--
JUN 04, 75	1155	2	.3	--	--	--	--	--	--	--	2.1
			1.5	--	--	--	--	--	--	--	2.1
FEB 05, 75	1340	3	.3	--	--	--	--	--	--	--	2.2
						LINE 107					
OCT 23, 74	1350	2	.3	50	3	7	--	0	0	--	--
						LINE 125					
OCT 23, 74	1405	3	.3	50	4	--	--	0	--	--	--
FEB 05, 75	1330	3	.3	--	--	--	--	--	--	--	1.8
JUN 04, 75	1330	4	.3	--	--	--	--	--	--	--	1.9
			1.8	--	--	--	--	--	--	--	1.6
						LINE 163					
OCT 23, 74	1130	2	.3	40	1	2	--	0	0	--	--
FEB 05, 75	0950	2	.3	--	--	--	--	--	--	--	1.9
JUN 04, 75	1100	2	4.0	--	--	--	--	--	--	--	1.3
						LINE 188					
OCT 23, 74	1005	2	.3	30	3	--	--	0	--	--	--
						LINE 217					
OCT 22, 74	1550	2	.3	70	1	--	--	1	--	--	--
						LINE 223					
OCT 22, 74	1435	2	1.2	40	7	9	--	0	--	--	--
FEB 04, 75	1535	2	.3	--	--	--	--	--	--	--	1.1
			1.2	--	--	--	--	--	--	--	1.1
JUN 03, 75	1500	2	.3	--	--	--	--	--	--	--	.9
			1.2	--	--	--	--	--	--	--	.8

TABLE 50--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 233					
FEB 04, 75	1615	2	4.9	--	--	--	--	--	--	--	1.5
						LINE 247					
OCT 22, 74	1600	2	.3	40	6	--	--	0	--	--	--
						LINE 263					
OCT 22, 74	1250	2	.3	30	3	3	--	0	0	--	--
						LINE 274					
OCT 22, 74	1210	1	.3	50	1	--	--	0	--	--	--
						LINE 287					
FEB 04, 75	1000	1	.6	--	--	--	--	--	--	--	1.6
JUN 03, 75	1155	1	.5	--	--	--	--	--	--	--	1.5
						LINE 320					
OCT 22, 74	1150	2	.3	40	3	2	--	0	0	--	--
			11.6	30	3	--	--	0	--	--	--
FEB 04, 75	1225	2	.3	--	--	--	--	--	--	--	1.5
			12.2	--	--	--	--	--	--	--	1.6
JUN 03, 75	1200	2	.3	--	--	--	--	--	--	--	1.4
			10.7	--	--	--	--	--	--	--	1.5
						LINE 351					
OCT 22, 74	1040	2	.3	360	0	--	--	3	--	--	--
						LINE 903					
OCT 22, 74	0930	95	.3	30	0	--	--	0	--	--	--
			16.8	20	1	--	--	0	--	--	--
FEB 04, 75	0820	95	17.1	--	--	--	--	--	--	--	1.6
JUN 03, 75	1045	95	.6	--	--	--	--	--	--	--	1.7
			16.8	--	--	--	--	--	--	--	1.7

TABLE 9D--QUALITY OF WATER IN THE LAGUNA MAERE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	BOTTOM DEPOSIT COBALT (CO) (UG/GM)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	BOTTOM DEPOSIT COPPER (CU) (UG/GM)
						LINE 23					
OCT 23, 74	1615	3	.3	.00	--	0	--	--	10	--	--
						LINE 53					
OCT 23, 74	1515	1	.3	.00	60.00	0	0	--	8	13.0	--
						LINE 74					
OCT 23, 74	1140	2	.3	.00	70.00	0	0	--	15	17.0	--
						LINE 107					
OCT 23, 74	1350	2	.3	.00	80.00	0	3	--	10	14.0	--
						LINE 125					
OCT 23, 74	1405	3	.3	.00	--	0	--	--	9	--	--
						LINE 163					
OCT 23, 74	1130	2	.3	2.00	70.00	0	3	--	6	8.0	--
						LINE 188					
OCT 23, 74	1005	2	.3	3.00	--	0	--	--	6	--	--
						LINE 217					
OCT 22, 74	1550	2	.3	.00	--	0	--	--	6	--	--
						LINE 223					
OCT 22, 74	1435	2	1.2	.00	--	0	--	--	6	--	--
						LINE 247					
OCT 22, 74	1600	2	.3	1.00	--	0	--	--	7	--	--
						LINE 263					
OCT 22, 74	1250	2	.3	.00	30.00	1	0	--	6	5.0	--
						LINE 274					
OCT 22, 74	1210	1	.3	.00	--	0	--	--	4	--	--
						LINE 320					
OCT 22, 74	1150	2	.3	.00	50.00	1	3	--	12	11.0	--
			11.6	2.00	--	0	--	--	8	--	--
						LINE 351					
OCT 22, 74	1040	2	.3	3.00	--	0	--	--	4	--	--

TABLE 9D--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	BOTTOM DEPOSIT COBALT (CO) (UG/GM)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	BOTTOM DEPOSIT COPPER (CU) (UG/GM)
						LINE 903					
OCT 22, 74	0930	95	.3	1.00	--	0	--	--	6	--	--
			16.8	1.00	--	0	--	--	6	--	--

TABLE 90--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CYANIDE (CN) (MG/L)	BOTTOM DEPOSIT CYANIDE (CN) (UG/GM)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	BOTTOM DEPOSIT IRON (FE) (UG/GM)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	BOTTOM DEPOSIT LEAD (PB) (UG/GM)
						LINE 23					
OCT 23, 74	1615	3	.3	--	--	120	--	--	2	--	--
						LINE 53					
OCT 23, 74	1515	1	.3	--	--	180	310	--	2	3	--
						LINE 74					
OCT 23, 74	1140	2	.3	--	--	170	690	--	3	10	--
						LINE 107					
OCT 23, 74	1350	2	.3	--	--	180	740	--	3	8	--
						LINE 125					
OCT 23, 74	1405	3	.3	--	--	200	--	--	2	--	--
						LINE 163					
OCT 23, 74	1130	2	.3	--	--	160	480	--	2	9	--
						LINE 188					
OCT 23, 74	1005	2	.3	--	--	130	--	--	3	--	--
						LINE 217					
OCT 22, 74	1550	2	.3	--	--	80	--	--	3	--	--
						LINE 223					
OCT 22, 74	1435	2	1.2	--	--	10	--	--	0	--	--
						LINE 247					
OCT 22, 74	1600	2	.3	--	--	40	--	--	0	--	--
						LINE 263					
OCT 22, 74	1250	2	.3	--	--	100	610	--	6	7	--
						LINE 274					
OCT 22, 74	1210	1	.3	--	--	130	--	--	0	--	--
						LINE 320					
OCT 22, 74	1150	2	.3	--	--	130	220	--	4	7	--
			11.6	--	--	120	--	--	5	--	--
						LINE 351					
OCT 22, 74	1040	2	.3	--	--	140	--	--	53	--	--

TABLE 9D--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CYANIDE (CN) (MG/L)	BOTTOM DEPOSIT CYANIDE (CN) (UG/GM)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	BOTTOM DEPOSIT IRON (FE) (UG/GM)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	BOTTOM DEPOSIT LEAD (PB) (UG/GM)
						LINE 903					
OCT 22, 74	0930	95	.3	--	--	110	--	--	0	--	--
			16.8	--	--	120	--	--	0	--	--

TABLE 9D--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED LITH-IUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BOTTOM DEPOSIT MAN-GANESE (MN) (UG/GM)	DIS-SOLVED MER-CURY (HG) (UG/L)	TOTAL MER-CURY (HG) (UG/L)	BOTTOM DEPOSIT MER-CURY (HG) (UG/GM)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
						LINE 23						
OCT 23, 74	1615	3	.3	140	82	--	--	.3	--	--	3	5600
						LINE 53						
OCT 23, 74	1515	1	.3	180	120	150	--	.4	.6	--	2	6300
						LINE 74						
OCT 23, 74	1140	2	.3	200	110	130	--	.3	.3	--	1	10000
						LINE 107						
OCT 23, 74	1350	2	.3	200	120	150	--	.4	.4	--	1	8000
						LINE 125						
OCT 23, 74	1405	3	.3	200	130	--	--	.2	--	--	1	7200
						LINE 163						
OCT 23, 74	1130	2	.3	170	200	150	--	.2	.5	--	1	6500
						LINE 188						
OCT 23, 74	1005	2	.3	150	71	--	--	.1	--	--	1	6200
						LINE 217						
OCT 22, 74	1550	2	.3	140	35	--	--	.0	--	--	3	5700
						LINE 223						
OCT 22, 74	1435	2	1.2	130	71	--	--	.2	--	--	4	4700
						LINE 247						
OCT 22, 74	1600	2	.3	130	12	--	--	.1	--	--	3	6400
						LINE 263						
OCT 22, 74	1250	2	.3	130	47	82	--	.3	.4	--	1	5500
						LINE 274						
OCT 22, 74	1210	1	.3	130	71	--	--	.3	--	--	3	5300
						LINE 320						
OCT 22, 74	1150	2	.3	140	82	130	--	.4	.5	--	3	5700
			11.6	140	110	--	--	.3	--	--	3	5600
						LINE 351						
OCT 22, 74	1040	2	.3	130	82	--	--	.3	--	--	3	5300

TABLE 90--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED LITH-IUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BOTTOM DEPOSIT MAN-GANESE (MN) (UG/GM)	DIS-SOLVED MER-CURY (HG) (UG/L)	TOTAL MER-CURY (HG) (UG/L)	BOTTOM DEPOSIT MER-CURY (HG) (UG/GM)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
LINE 903												
OCT 22, 74	0930	95	.3	130	59	--	--	.3	--	--	0	6500
			16.8	130	82	--	--	.1	--	--	3	7100

TABLE 9D--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	BOTTOM DEPOSIT ZINC (ZN) (UG/GM)
						LINE 23
OCT 23, 74	1615	3	.3	70	--	--
						LINE 53
OCT 23, 74	1515	1	.3	60	70	--
						LINE 74
OCT 23, 74	1140	2	.3	80	70	--
						LINE 107
OCT 23, 74	1350	2	.3	70	80	--
						LINE 125
OCT 23, 74	1405	3	.3	80	--	--
						LINE 163
OCT 23, 74	1130	2	.3	70	60	--
						LINE 188
OCT 23, 74	1005	2	.3	80	--	--
						LINE 217
OCT 22, 74	1550	2	.3	40	--	--
						LINE 223
OCT 22, 74	1435	2	1.2	30	--	--
						LINE 247
OCT 22, 74	1600	2	.3	40	--	--
						LINE 263
OCT 22, 74	1250	2	.3	40	60	--
						LINE 274
OCT 22, 74	1210	1	.3	60	--	--
						LINE 320
OCT 22, 74	1150	2	.3	60	60	--
			11.6	60	--	--
						LINE 351
OCT 22, 74	1040	2	.3	50	--	--

TABLE 9D--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	BOTTOM DEPOSIT ZINC (ZN) (UG/GM)					
						LINE 903					
OCT 22, 74	0930	95	.3	60	--	--					
			16.8	80	--	--					

TABLE 9E--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL ALDRIN (UG/L)	BOTTOM DEPOSIT ALDRIN (UG/KG)	TOTAL CHLOR-DANE (UG/L)	BOTTOM DEPOSIT CHLOR-DANE (UG/KG)	TOTAL DDD (UG/L)	BOTTOM DEPOSIT DDD (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDE (UG/KG)
						LINE 53					
OCT 23, 74	1515	1	.3	.00	--	.0	--	.00	--	.00	--
			1.7	--	.0	--	.0	--	.0	--	.0
						LINE 74					
OCT 23, 74	1140	2	.3	.00	--	.0	--	.00	--	.00	--
			1.5	--	.0	--	.0	--	.0	--	1.3
						LINE 107					
OCT 23, 74	1350	2	2.4	--	.0	--	.0	--	.0	--	.4
						LINE 125					
OCT 23, 74	1405	3	.3	.00	--	.0	--	.00	--	.00	--
						LINE 217					
OCT 22, 74	1550	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 223					
OCT 22, 74	1435	2	.3	.00	--	.1	--	.00	--	.01	--
						LINE 247					
OCT 22, 74	1600	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 263					
OCT 22, 74	1250	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 320					
OCT 22, 74	1150	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 351					
OCT 22, 74	1040	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 903					
OCT 22, 74	0930	95	.3	.00	--	.0	--	.00	--	.00	--

TABLE 9E--QUALITY OF WATER IN THE LAGUNA MALRE ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL DDT (UG/L)	BOTTOM DEPOSIT DDT (UG/KG)	TOTAL DIEL-DRIN (UG/L)	BOTTOM DEPOSIT DIEL-DRIN (UG/KG)	TOTAL ENDRIN (UG/L)	BOTTOM DEPOSIT ENDRIN (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR (UG/KG)
						LINE 53					
OCT 23, 74	1515	1	.3	.00	--	.00	--	.00	--	.00	--
			1.7	--	.0	--	.0	--	.0	--	.0
						LINE 74					
OCT 23, 74	1140	2	.3	.00	--	.00	--	.00	--	.00	--
			1.5	--	.0	--	.0	--	.0	--	.0
						LINE 107					
OCT 23, 74	1350	2	2.4	--	.0	--	.0	--	.0	--	.0
						LINE 125					
OCT 23, 74	1405	3	.3	.00	--	.00	--	.00	--	.00	--
						LINE 217					
OCT 22, 74	1550	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 223					
OCT 22, 74	1435	2	.3	.00	--	.02	--	.00	--	.00	--
						LINE 247					
OCT 22, 74	1600	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 263					
OCT 22, 74	1250	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 320					
OCT 22, 74	1150	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 351					
OCT 22, 74	1040	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 903					
OCT 22, 74	0930	95	.3	.00	--	.00	--	.00	--	.00	--

TABLE 9E--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR EPOXIDE (UG/KG)	TOTAL LINDANE (UG/L)	BOTTOM DEPOSIT LINDANE (UG/KG)	TOTAL PARA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL DIAZ-INON (UG/L)
						LINE 53					
OCT 23, 74	1515	1	.3	.00	--	.00	--	.00	.00	.00	.00
			1.7	--	.0	--	.0	--	--	--	--
						LINE 74					
OCT 23, 74	1140	2	.3	.00	--	.00	--	.00	.00	.00	.00
			1.5	--	.0	--	.0	--	--	--	--
						LINE 107					
OCT 23, 74	1350	2	2.4	--	.0	--	.0	--	--	--	--
						LINE 125					
OCT 23, 74	1405	3	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 217					
OCT 22, 74	1550	2	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 223					
OCT 22, 74	1435	2	.3	.00	--	.01	--	.00	.02	.02	.03
						LINE 247					
OCT 22, 74	1600	2	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 263					
OCT 22, 74	1250	2	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 320					
OCT 22, 74	1150	2	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 351					
OCT 22, 74	1040	2	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 903					
OCT 22, 74	0930	95	.3	.00	--	.00	--	.00	.00	.00	.00

TABLE 5E--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL PCB (UG/L)	BOTTOM DEPOSIT PCB (UG/KG)	TOTAL 2,4-D (UG/L)	BOTTOM DEPOSIT 2,4-D (UG/KG)	TOTAL 2,4,5-T (UG/L)	BOTTOM DEPOSIT 2,4,5-T (UG/KG)	TOTAL SILVEX (UG/L)	BOTTOM DEPOSIT SILVEX (UG/KG)
						LINE 23					
OCT 23, 74	1615	3	.3	--	--	.00	--	.00	--	.00	--
						LINE 53					
OCT 23, 74	1515	1	.3	.0	--	.00	--	.00	--	.00	--
			1.7	--	.0	--	.0	--	.0	--	.0
						LINE 74					
OCT 23, 74	1140	2	.3	.0	--	.01	--	.01	--	.00	--
			1.5	--	.0	--	.0	--	.0	--	.0
						LINE 107					
OCT 23, 74	1350	2	.3	--	--	.00	--	.00	--	.00	--
			2.4	--	.0	--	.0	--	.0	--	.0
						LINE 125					
OCT 23, 74	1405	3	.3	.0	--	.01	--	.00	--	.00	--
						LINE 163					
OCT 23, 74	1130	2	.3	--	--	.00	--	.00	--	.00	--
						LINE 188					
OCT 23, 74	1005	2	.3	--	--	.00	--	.00	--	.00	--
						LINE 217					
OCT 22, 74	1550	2	.3	.0	--	.00	--	.00	--	.00	--
						LINE 223					
OCT 22, 74	1435	2	.3	.0	--	.00	--	.01	--	.00	--
						LINE 247					
OCT 22, 74	1600	2	.3	.0	--	.00	--	.00	--	.00	--
						LINE 263					
OCT 22, 74	1250	2	.3	.0	--	.00	--	.00	--	.00	--
						LINE 274					
OCT 22, 74	1210	1	.3	--	--	.00	--	.00	--	.00	--
						LINE 320					
OCT 22, 74	1150	2	.3	.0	--	.00	--	.00	--	.00	--
						LINE 351					
OCT 22, 74	1040	2	.3	.0	--	.00	--	.00	--	.00	--

TABLE 9E--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL PCB (UG/L)	BOTTOM DEPOSIT PCB (UG/KG)	TOTAL 2,4-D (UG/L)	BOTTOM DEPOSIT 2,4-D (UG/KG)	TOTAL 2,4,5-T (UG/L)	BOTTOM DEPOSIT 2,4,5-T (UG/KG)	TOTAL SILVEX (UG/L)	BOTTOM DEPOSIT SILVEX (UG/KG)
LINE 903											
OCT 22, 74	0930	95	.3	.0	--	.00	--	.10	--	.00	--

TABLE 9E--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL TOXA-PHENE (UG/L)	BOTTOM DEPOSIT TOXA-PHENE (UG/KG)	TOTAL ETHION (UG/L)	BOTTOM DEPOSIT ETHION (UG/KG)	TOTAL METHYL TRI-THION (UG/L)	BOTTOM DEPOSIT METHYL TRI-THION (UG/KG)	TOTAL TRI-THION (UG/L)	BOTTOM DEPOSIT TRI-THION (UG/KG)
						LINE 53					
OCT 23, 74	1515	1	.3	.0	--	--	--	--	--	--	--
			1.7	--	0.	--	--	--	--	--	--
						LINE 74					
OCT 23, 74	1140	2	.3	.0	--	--	--	--	--	--	--
			1.5	--	0.	--	--	--	--	--	--
						LINE 107					
OCT 23, 74	1350	2	2.4	--	0.	--	--	--	--	--	--
						LINE 125					
OCT 23, 74	1405	3	.3	.0	--	--	--	--	--	--	--
						LINE 217					
OCT 22, 74	1550	2	.3	.0	--	--	--	--	--	--	--
						LINE 223					
OCT 22, 74	1435	2	.3	.0	--	--	--	--	--	--	--
						LINE 247					
OCT 22, 74	1600	2	.3	.0	--	--	--	--	--	--	--
						LINE 263					
OCT 22, 74	1250	2	.3	.0	--	--	--	--	--	--	--
						LINE 320					
OCT 22, 74	1150	2	.3	.0	--	--	--	--	--	--	--
						LINE 351					
OCT 22, 74	1040	2	.3	.0	--	--	--	--	--	--	--
						LINE 903					
OCT 22, 74	0930	95	.3	.0	--	--	--	--	--	--	--

TABLE 9F--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
						LINE 23	
OCT 23, 74	1615	3	.3	8	1	18	.10
JUN 04, 75	1620	3	.3	--	2	6	3.60
						LINE 53	
OCT 23, 74	1515	1	.3	0	0	0	--
						LINE 74	
OCT 23, 74	1140	2	.3	0	0	2	.70
JUN 04, 75	1155	2	.3	0	0	0	2.10
						LINE 107	
OCT 23, 74	1350	2	.3	0	0	2	3.90
JUN 04, 75	1415	2	.5	2	0	0	--
						LINE 125	
OCT 23, 74	1405	3	.3	10	0	0	6.50
JUN 04, 75	1330	4	.3	0	0	0	.10
						LINE 163	
OCT 23, 74	1130	2	.3	0	2	0	.40
JUN 04, 75	1100	2	.3	8	1	5	.70
						LINE 188	
OCT 23, 74	1005	2	.3	0	0	1	.60
JUN 04, 75	0930	2	.3	0	0	0	2.10
						LINE 194	
OCT 22, 74	1730	4	.3	12	10	0	--
JUN 03, 75	1725	4	.3	100	0	0	--
						LINE 217	
OCT 22, 74	1550	2	.3	5	4	6	8.40
JUN 03, 75	1445	2	.3	0	0	0	--
						LINE 223	
OCT 22, 74	1435	2	.3	--	*	1100	8.10
FEB 04, 75	1535	2	.3	--	--	--	21.00

* - TOO NUMEROUS TO COUNT

TABLE 9F--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)
					LINE 223 CONTINUED		
JUN 03, 75	1500	2	.3	--	*	650	4.20
						LINE 233	
OCT 22, 74	1515	2	.3	170	48	58	36.00
FEB 04, 75	1615	2	.3	--	*	650	8.10
						LINE 247	
OCT 22, 74	1600	2	.3	260	84	77	2.70
FEB 04, 75	1700	2	.3	--	--	--	3.80
JUN 03, 75	1610	2	.3	--	12	14	7.60
						LINE 263	
OCT 22, 74	1250	2	.3	1	1	7	2.30
JUN 03, 75	1400	2	.3	0	0	0	4.20
						LINE 274	
OCT 22, 74	1210	1	.3	--	--	--	.80
JUN 03, 75	1315	1	.3	--	--	--	.00
						LINE 287	
OCT 22, 74	1030	4	.3	--	49	11	--
JUN 03, 75	1130	4	.3	12	7	2	--
						LINE 297	
OCT 22, 74	0950	2	.3	--	120	47	.40
JUN 03, 75	1015	2	.3	12	13	4	1.50
						LINE 320	
OCT 22, 74	1150	2	.3	23	22	2	2.10
JUN 03, 75	1200	2	.3	4	0	0	.90
						LINE 351	
OCT 22, 74	1040	2	.3	4	4	9	.10
JUN 03, 75	1040	2	.3	1	0	0	.80
						LINE 903	
JUN 03, 75	1615	90	.6	1	8	0	--
OCT 22, 74	0930	95	.3	69	36	4	.40

* - TOO NUMEROUS TO COUNT

TABLE 9F--QUALITY OF WATER IN THE LAGUNA MADRE ESTUARY,

1975 WATER YEAR--CONTINUED

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	CHLORO-PHYLL A (UG/L)				
LINE 903 CONTINUED											
JUN 03, 75	1045	95	.3	10	1	0	--				
			.6	10	1	0	.40				

Climatological Records

The climate of the region has a significant influence on the quality of the water in the estuaries. The types of climatological data available for a 60-mile- (97-km-) wide band along the Texas Coast are shown on Figure 11.

Tabulations of daily precipitation, air temperature, and other data are published monthly; and monthly summaries are published annually by the Environmental Science Services Administration in the series titled "Climatological Data-Texas." For the period 1931-60, monthly and annual data are summarized in two U.S. Weather Bureau publications (1958, 1965).

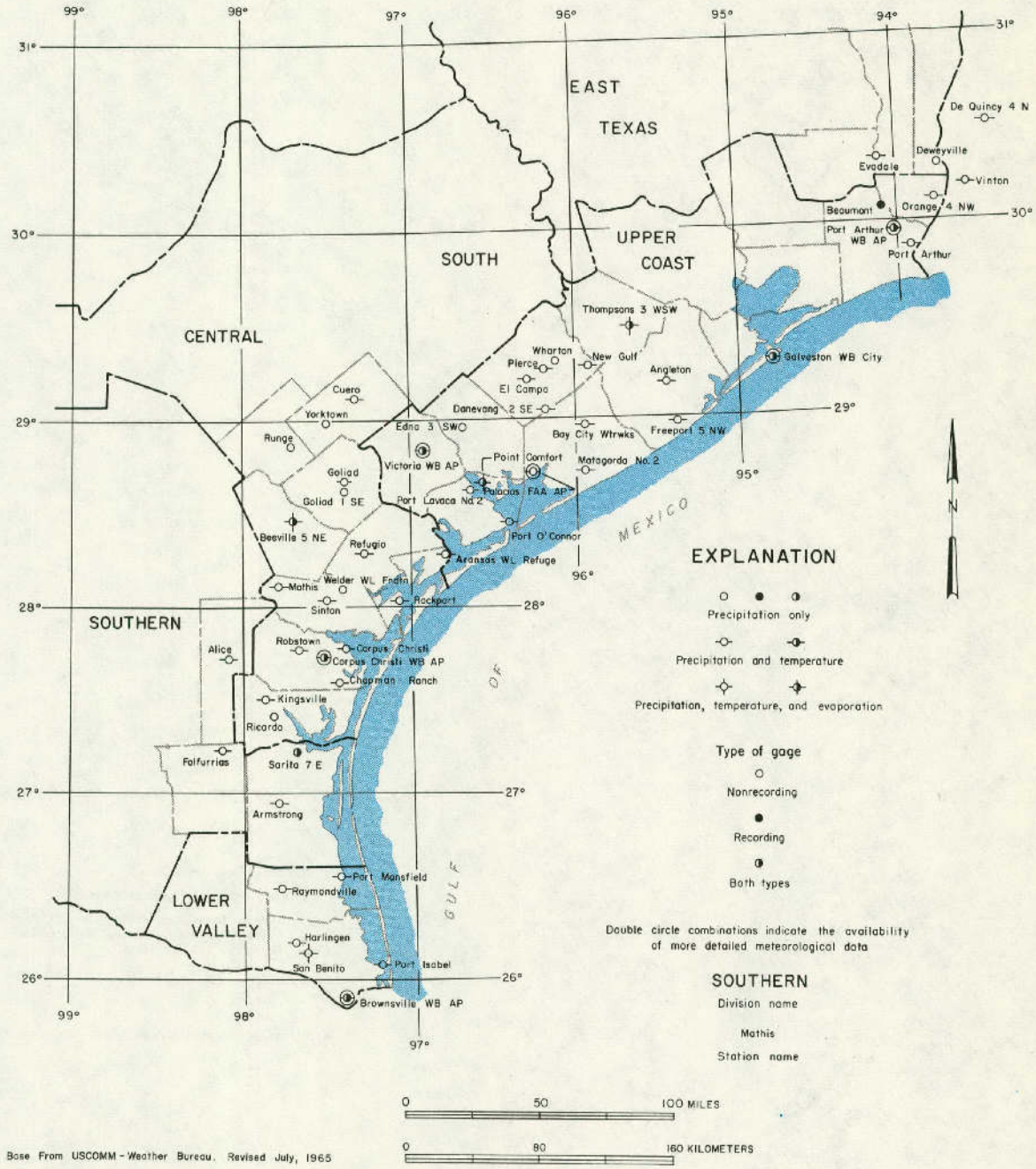

Figure 11.—Locations of Selected Climatological Stations

Streamflow and Water-Quality Records

Streams along the Texas Coast flow across the flat coastal plain and are incised below sea level. Thus, changes in water stage within the bays are often reflected for many miles up the tributary streams. Consequently, the farthest downstream sites at which continuous streamflow data can be obtained are located many miles upstream from the principal estuaries. The locations of the sites[1] at which continuous streamflow and daily water-quality data are available are shown on Figure 12.

[1] Station numbers greater than 300 are abbreviated from the U.S. Geological Survey numbering system. For example, the two station numbers 08041500 and 08162650, in abbreviated form become 415 and 1626.5.

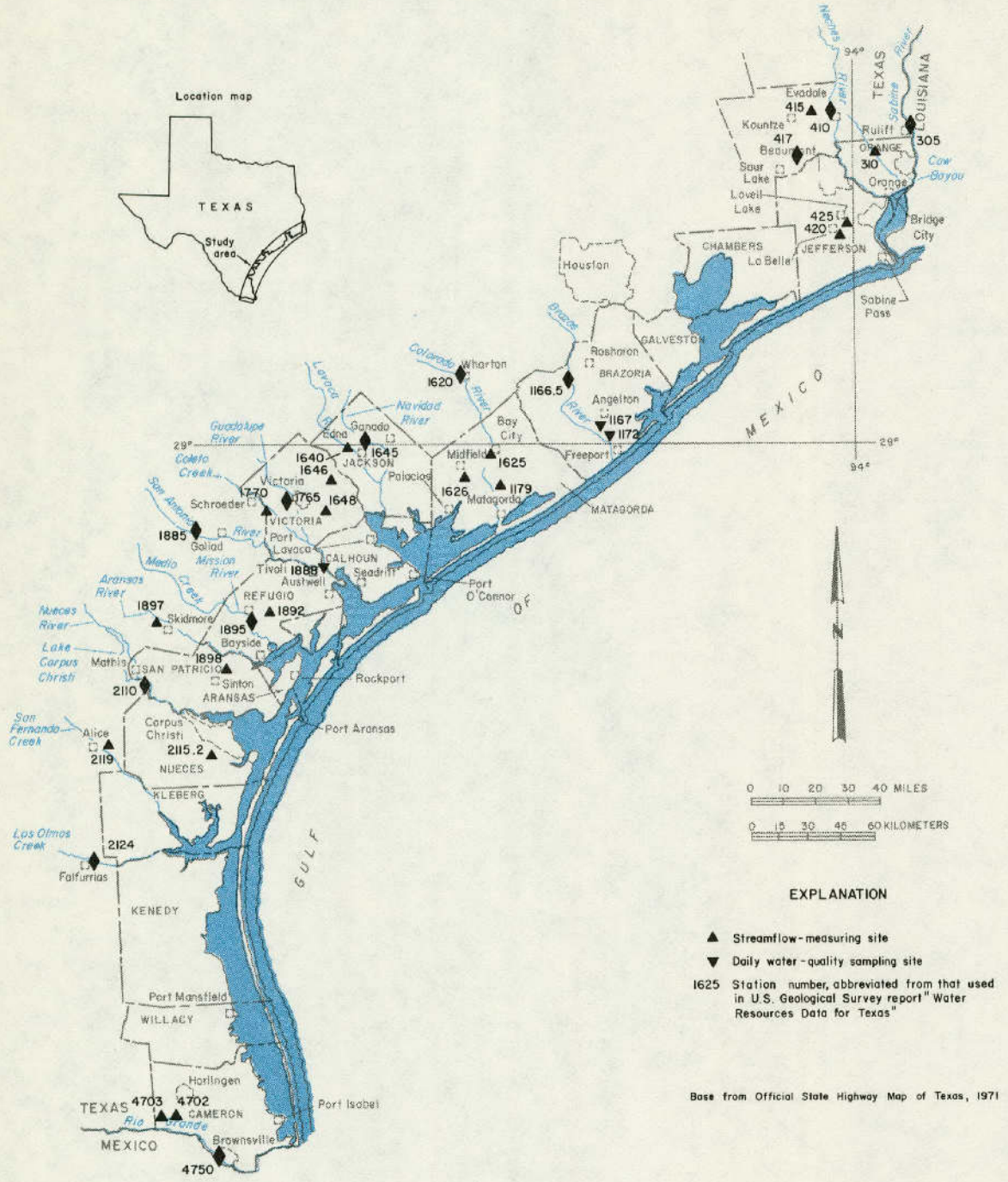

Figure 12.—Locations of Streamflow-Measuring Sites and Daily Water-Quality Data-Collection Sites

The streamflow data for these sites represent runoff reaching the coastal area, but do not describe all of the flow from streams that enter the estuaries. Intervening drainage, diversion for irrigation, return flows, and evapotranspiration may influence streamflow between the measuring site and the estuaries.

Analyses of water collected daily at streamflow-measuring sites show the effect of geology and cultural development on runoff from the drainage basins. At times, however, return flows, evapotranspiration, and lack of significant upstream flow result in altered water quality between the data-collection site and the estuary.

Drainage areas from which unmeasured runoff enters the estuaries range from less than 100 square miles (259 km^2) to more than 10,000 square miles (25,900 km^2). Periodic measurements indicate that during some seasons, unmeasured runoff that reaches the estuaries exceeds measure flow from the major tributaries.

To completely describe the quality and quantity of runoff from the entire area between continuous-streamflow stations and the estuaries is not feasible; however, representative data are collected periodically at the sites shown on Figure 13.

Both continuous- and periodic-streamflow and chemical-quality data are published annually in the U.S. Geological Survey series Water Resources Data for Texas (1975).

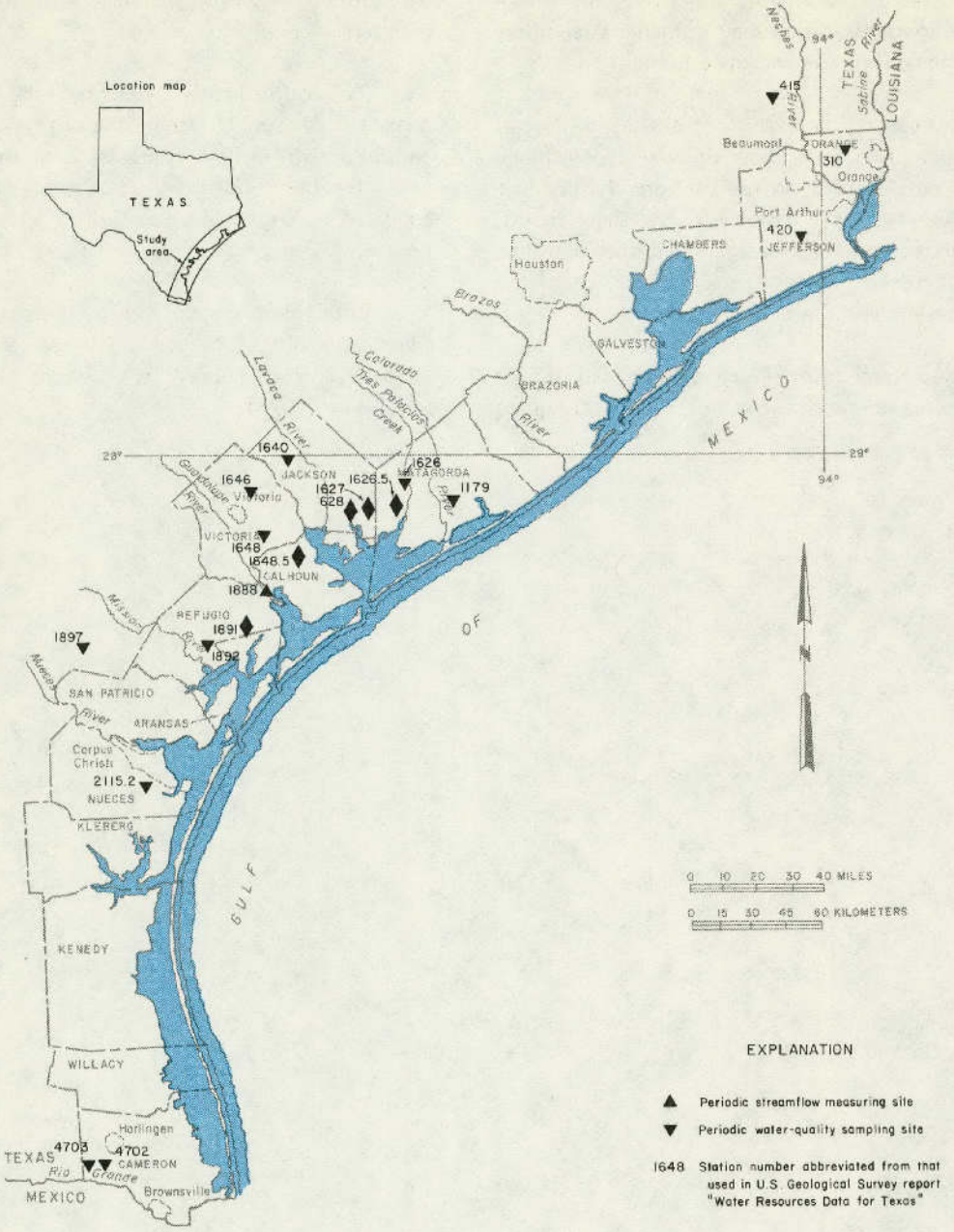

Figure 13

Location of Selected Water-Quality and Streamflow Data-Collection Sites

Base from Official State Highway Map of Texas, 1971

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