TEXAS WATER DEVELOPMENT BOARD

REPORT 208

CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS OCTOBER 1971-SEPTEMBER 1973

By

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United States Geological Survey

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TEXAS WATER DEVELOPMENT BOARD

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CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS OCTOBER 1971-SEPTEMBER 1973

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INTRODUCTION

Purpose and Scope of the Investigation

Plans for development and utilization of water resources in Texas include provisions for the use and preservation of water in the estuaries of the State. These provisions require 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 began a cooperative water-resources investigation of the principal estuaries along the Texas coast (Figure 1) except Galveston Bay, which is being studied by other agencies, and the Rio Grande estuary, which is under the jurisdication 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 George H. 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. Changes in locations and numbers of these stations will be based upon the results of a current study of coastal rainfall-runoff relationships. 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 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

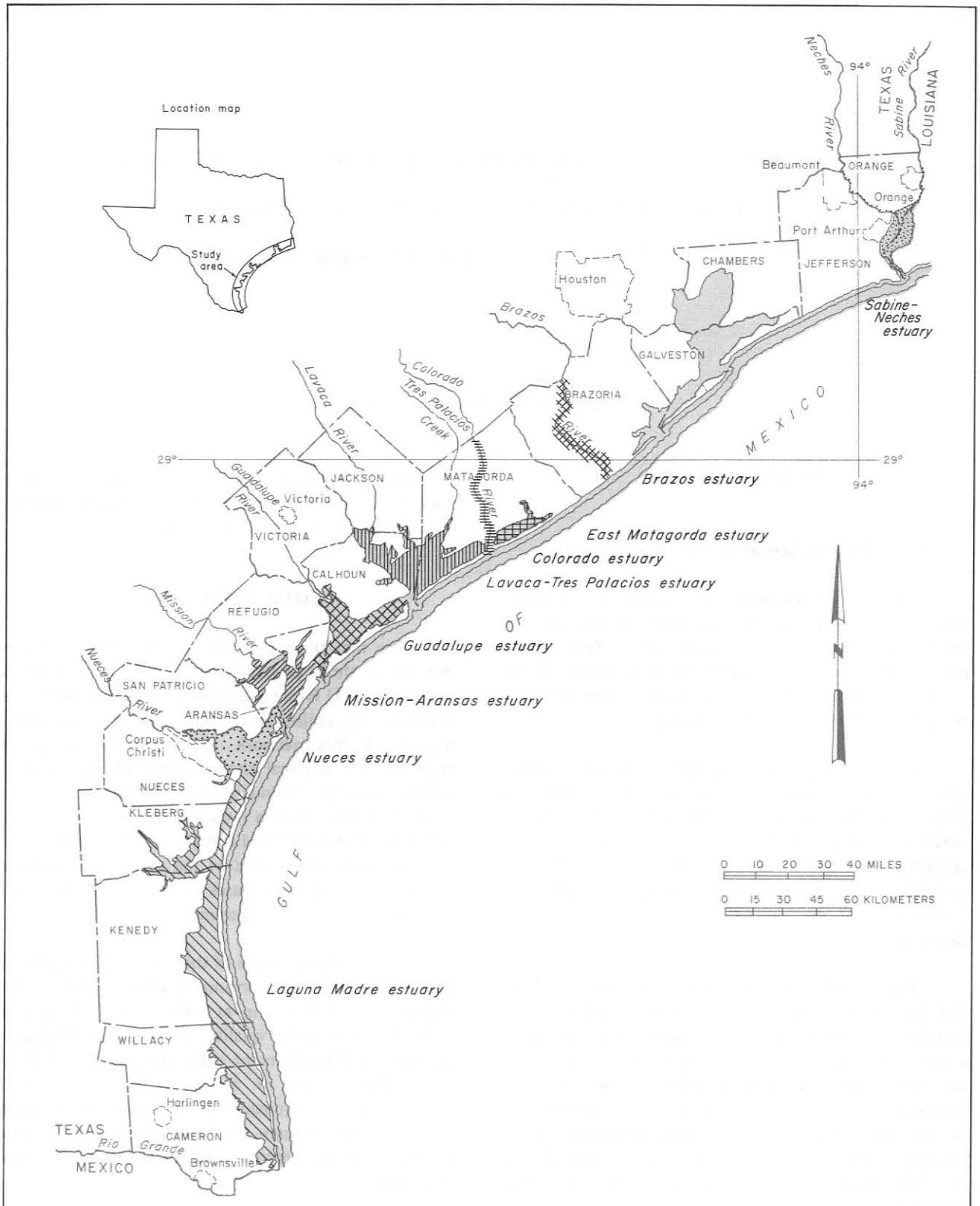

Figure 1
Locations of the Estuaries

Base from Official State Highway Map of Texas, 1971

Palacios estuary were completed in March 1971 and October 1972. One study on the Mission-Aransas and Nueces estuaries was completed in November 1971. These studies are providing data on inflow and exchange of water through the passes.

Previous and Related Reports

This report, fifth in an annual series of basic-data reports (Hahl and Ratzlaff, 1970, 1972, 1973, 1975), presents data collected during water years 1972 and 1973 and includes analyses for selected ions in water from the Guadalupe estuary for water year 1971, which have not been previously published. A report by Grozier and others (1968, p. 47-61) includes data collected during flooding caused by Hurricane Beulah. Interpretive reports will be prepared after sufficient data become available to establish the characteristics of an estuary.

Change in the Numbering System

Chemical and physical data for estuarine waters of Texas collected by the U.S. Geological Survey and by other agencies are being stored in the Texas Water Oriented Data Bank by estuarine name, sample line and site number, and depths at which data were collected. To make the Geological Survey data compatible to storage in the data bank, the original data-collection line-numbering system used before October 1970 needed adjustment. Lists of old and new line numbers appear under the appropriate estuary in the section "Quality of Water in the Estuaries." Most site numbers were not changed; the few that were are given on the list of new numbers.

The original data-collection line-numbering system was not suitable for use in offshore and marsh lands; therefore, under the new system, data-collection lines numbered 600 to 699 are reserved for marsh lands and lines numbered 900 to 999 are reserved for offshore areas.

Each opening along the coast was assigned a "site" number. These site numbers are as follows:

LOCATION	SITE NO.	LOCATION	SITE NO.
Sabine Pass	1	Colorado River	45
Freeport Harbor entrance	30	Greens Bayou	47
Brazos River	31	Matagorda Bay entrance channel	49
Brown Cedar Cut	40	Pass Cavallo	50
Cedar Bayou	65	Corpus Christi Pass	80
North Pass	69	Yarborough Pass	85
Aransas Pass	70	Port Mansfield entrance channel	90
Fish Pass	74	Brazos Santiago Pass	95

International System of Units

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		MULTIPLY BY	TO OBTAIN	
UNIT	ABBREVIATION		UNIT	ABBREVIATION
inch	—	2.54	centimeter	—
foot	—	.3048	meter	—
mile	—	1.609	kilometer	—
square mile	—	2.590	square kilometer	—
cubic foot per second	ft^3/s	.02832	cubic meter per second	m^3/s

Acknowledgements

The U.S. Army Corps of Engineers at Galveston, 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 bays.

DATA-COLLECTION METHODS

Approximately 400 data-collection sites were visited yearly during water years 1972 and 1973. About 55 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 17 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 meters). About 28 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 sets of distant landmarks by visual observation or by onboard radar. These sites can be reoccupied within 0.25 mile (0.4 kilometer).

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), chemical oxygen demand (COD), coliform and streptococci bacteria, insecticides and herbicides, ammonium, nitrite, nitrate, ortho and total phosphate, and several 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. The information is for identification only.

PARAMETER MEASURED	INSTRUMENT	MODEL	MANUFACTURER
pH	Specific ion meter	401	Orion Research
pH	pH meter	175	Instrumentation Laboratory
Dissolved oxygen	Oxygen meter	54	Yellow Springs Instruments
Specific conductance	Solubridge	RB-3	Industrial Instruments
Temperature	Research thermometer	ET-100 Marine	Allied Research
Turbidity	Colorimeter	DR	Hach Chemical

The instruments used for pH measurements were calibrated daily by using three standards: pH 4.0, 7.0, and 10.0. The dissolved-oxygen meter was calibrated at least daily by using the oxygen-saturation data compiled by the American Public Health Association and others (1966, p. 409). The conductivity meter was calibrated monthly by using at least two standards in each of the three conductivity ranges on the instrument. The electrical thermometer was calibrated weekly. The colorimeter was calibrated at each site.

Probes of the instruments 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 insecticide and herbicide analyses were collected in plastic throwaway bottles. The BOD, COD, 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. All other samples were stored at ambient temperature.

Water samples for heavy metals and selected trace constituents (except boron, bromide, fluoride, and iodide) were filtered through 0.45-micrometer membrane filters and collected in bottles prewashed with 10 percent nitric acid. Two milliliters of concentrated nitric acid were added to each liter of filtrate.

Water and bottom-sediment samples to be analyzed for herbicides and insecticides were collected in specially treated glass bottles and shipped 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 by coring with a 2-inch (5-centimeter) inside-diameter lucite tube and selectively removing 100 grams of material from the center of the core.

Sabine-Neches Estuary

The Sabine-Neches estuary covers an area of about 100 square miles (260 square kilometers) 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 meters) in dredged parts of the rivers, canals, and pass; about 15 feet (4.6 meters) in the Intracoastal Waterway; and generally 10 feet (3.0 meters) in Sabine Lake.

Water-quality data (Table 1) were collected during September 1972 and May 1973.

The changes in line numbers to facilitate storage in the Texas Water Oriented Data Bank and to provide opportunity to coordinate data-collection sites among all agencies are shown below. New line numbers are used in Table 1 and on Figure 2.

All data collected prior to the changes in line numbers are stored in the data bank under the new line numbers.

Sabine-Neches Estuary
Change in Line Numbers

OLD	NEW	OLD	NEW
1	15	19	190
1a	17	19a	201
2	24	19b	203
3	33	20	205
3a	35	21	214
4	40	22	221
5	55	23	234
6	65	24	244
6a	69	25	254
7	70	26	264
7a	75	27	274
8a	82	28	284
8b	83	29	293
8c	84	30	300
8	87	31	308
9	97	Johnson Bayou	313
10	107	32	323
11	115	33	331
12	125	34	339
13	134	35	353
14	147	35a	361
15	155	36	369
16	161	37	377
17	170	38	382
18	180		
		Gulf of Mexico 39-site 2	903-site 1

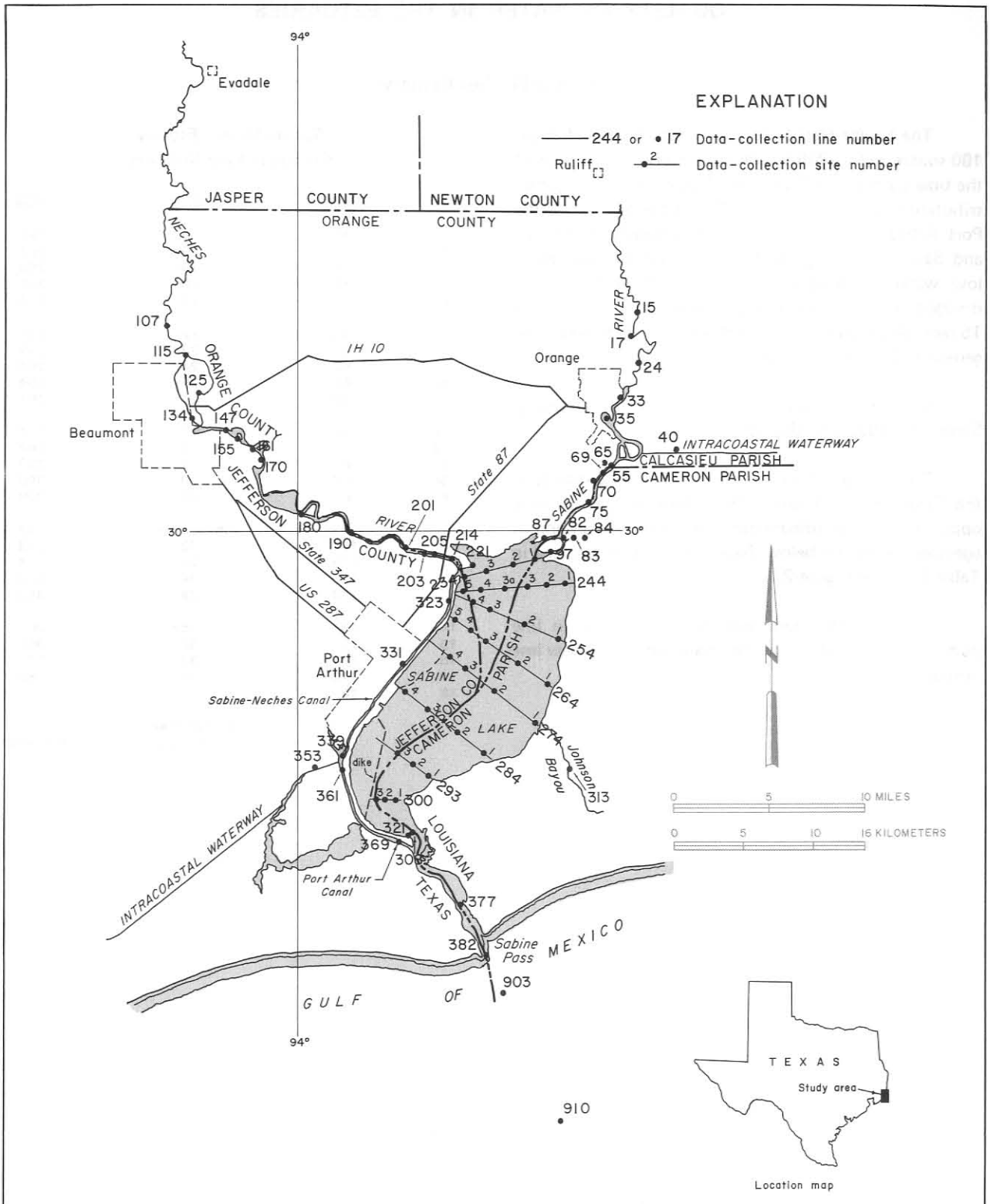

Figure 2
Data-Collection Sites in the Sabine-Neches Estuary

Base by US Geological Survey, 1956

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

WATER YEARS 1972 AND 1973

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 15					
SEP 11, 72	1350	2	.3	210	28.8	6.9	7.1	91	--	52
			4.6	220	28.9	7.0	7.2	92	--	--
			7.6	290	28.9	7.0	7.2	92	--	--
MAY 07, 73	1500	2	.3	140	20.1	6.1	8.0	87	--	--
			3.0	140	20.1	6.1	8.0	87	--	--
			6.1	140	19.9	6.1	8.0	87	--	--
			9.1	170	19.9	6.0	8.0	87	--	--
			12.2	160	19.9	6.0	8.2	89	--	--
					LINE 33					
SEP 11, 72	1445	2	.3	1000	29.1	7.2	7.2	92	--	53
			4.6	2100	29.1	7.2	6.7	87	--	--
			5.2	2300	29.0	7.2	6.4	83	--	--
			6.1	21000	30.1	7.3	.4	6	--	--
			9.1	25000	29.8	7.4	.0	0	--	--
			12.2	25000	29.9	7.4	.0	0	--	--
			17.4	25000	30.0	7.4	.0	0	--	--
MAY 07, 73	1558	2	.3	140	20.3	6.1	7.6	83	--	--
			3.0	140	20.3	6.1	7.7	84	--	--
			6.1	140	20.3	6.1	7.6	83	--	--
			9.1	140	20.3	6.1	7.6	83	--	--
			11.3	160	20.3	6.1	7.7	84	--	--
					LINE 55					
SEP 11, 72	1515	2	.3	2400	29.5	7.3	8.3	109	--	76
			3.0	7900	29.7	7.2	5.9	79	--	--
			4.6	17000	30.3	7.2	2.1	29	--	--
			6.1	22000	30.7	7.3	.2	3	--	--
			10.1	23000	30.4	7.3	.2	3	--	--
MAY 07, 73	1616	2	.3	140	20.6	6.2	7.7	85	--	--
			1.5	150	20.5	6.2	7.6	84	--	--
			3.0	120	20.4	6.2	7.4	81	--	--
			4.6	150	20.4	6.2	7.4	81	--	--
			6.1	150	20.4	6.2	7.3	80	--	--
			7.3	140	20.3	6.2	7.4	80	--	--
					LINE 87					
SEP 11, 72	1540	2	.3	7200	30.0	7.4	7.1	96	--	83
			3.0	13000	30.2	7.3	5.3	73	--	--
			4.6	23000	30.5	7.5	2.8	40	--	--
			8.5	27000	30.3	7.5	1.8	26	--	--
MAY 07, 73	1645	2	.3	190	20.6	6.3	7.5	82	--	--
			1.5	190	20.8	6.3	7.5	83	--	--
			3.0	190	20.8	6.3	7.6	84	--	--
			4.6	220	20.6	6.2	7.5	82	--	--
			6.1	220	20.7	6.2	7.4	81	--	--
			9.1	240	20.6	6.2	7.6	84	--	--
			11.3	240	20.5	6.3	8.2	90	--	--
					LINE 107					
SEP 11, 72	1445	2	.3	480	30.5	7.1	7.1	93	--	33
			1.5	1000	30.2	7.0	4.7	62	--	--
			3.0	3300	30.2	6.7	1.7	23	--	--
			4.6	16000	30.1	6.9	.3	4	--	--

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

WATER YEARS 1972 AND 1973--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					
SEP 11, 72	1445	2	6.1	17000	30.0	7.0	.3	4	--	--
			7.3	16000	30.0	7.4	.7	10	--	--
MAY 07, 73	1600	2	.3	140	21.5	5.7	7.1	80	--	24
			7.9	120	21.4	5.4	6.6	74	--	--
					LINE 147					
SEP 11, 72	1535	2	.3	9300	30.8	7.4	7.0	96	--	56
			1.5	11000	30.4	7.2	4.6	62	--	--
			3.0	16000	30.3	7.2	1.4	19	--	--
			6.1	22000	30.5	7.2	.0	0	--	--
			9.1	25000	30.4	7.6	.0	0	--	--
			12.2	27000	30.3	8.2	.1	1	--	--
MAY 07, 73	1630	2	.3	130	21.5	5.9	6.5	73	70	33
			6.1	130	21.4	5.8	6.5	73	70	--
			13.7	130	21.3	5.7	6.6	74	60	--
					LINE 180					
SEP 11, 72	1600	2	.3	17000	30.9	7.2	3.8	54	--	102
			1.5	17000	30.8	7.2	3.4	48	--	--
			3.0	17000	30.8	7.2	2.2	31	--	--
			6.1	24000	30.6	7.5	.0	0	--	--
			9.1	27000	30.5	7.9	.0	0	--	--
			12.2	29000	30.4	8.2	.2	3	--	--
MAY 07, 73	1655	2	.3	170	21.8	5.8	6.5	74	70	34
			6.1	170	21.6	5.7	6.5	73	70	--
			13.7	180	21.4	5.6	6.6	74	70	--
					LINE 214					
SEP 11, 72	1630	2	.3	22000	31.7	7.5	2.0	29	--	86
			1.5	--	31.6	7.6	--	--	--	--
			3.0	--	31.5	7.5	--	--	--	--
			6.1	--	31.0	7.5	--	--	--	--
			9.1	--	30.7	7.6	--	--	--	--
			12.2	29000	30.7	7.9	1.2	18	--	--
MAY 07, 73	1730	2	.3	210	21.8	6.5	6.5	74	75	--
			6.1	210	21.7	6.4	6.6	74	80	--
			13.7	200	21.7	6.1	7.1	80	70	--
					LINE 244					
SEP 12, 72	1010	1	.3	17000	28.6	7.5	5.0	68	--	48
			1.8	17000	28.6	7.5	5.1	70	--	--
MAY 08, 73	1124	1	.3	--	23.5	6.9	8.6	100	--	36
			1.5	--	22.8	6.8	8.5	98	--	--
			2.1	--	22.6	6.7	8.3	95	--	--
SEP 12, 72	0950	2	.3	17000	28.4	7.5	5.4	73	--	--
			1.8	17000	28.4	7.5	5.7	77	--	--
MAY 08, 73	1140	2	.3	340	24.1	6.7	8.8	104	--	28
			1.5	430	23.0	6.8	8.7	100	--	--
			2.4	650	22.7	6.8	8.5	98	--	--
SEP 12, 72	0940	3	.3	17000	28.4	7.5	5.9	80	--	71
			1.8	17000	28.3	7.5	6.1	82	--	--
MAY 08, 73	1150	3	.3	400	24.5	6.9	9.0	106	--	28

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

WATER YEARS 1972 AND 1973--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 08, 73	1150	3	1.5	400	22.6	6.8	8.6	99	--	--
			2.4	430	22.6	6.8	8.5	98	--	--
SEP 12, 72	0930	4	.3	15000	28.3	7.7	5.8	77	--	74
			2.1	15000	28.3	7.9	5.8	77	--	--
MAY 08, 73	1200	4	.3	210	24.4	6.2	8.2	96	--	60
			1.5	200	21.9	6.2	8.1	92	--	--
			3.0	200	21.9	6.2	7.9	90	--	--
SEP 12, 72	0900	5	.3	11000	27.9	7.7	7.0	91	--	46
			1.2	15000	27.6	8.1	5.7	75	--	--
MAY 08, 73	1220	5	.3	210	23.6	6.0	6.9	80	--	33
			1.5	230	22.9	6.0	6.8	78	--	--
					LINE 274					
SEP 12, 72	1035	1	.3	17000	29.1	8.5	6.1	84	--	119
			1.8	17000	29.1	8.5	6.1	84	--	--
MAY 08, 73	1031	1	.3	1100	23.3	6.5	5.5	63	--	51
			1.5	1100	22.6	6.4	2.4	28	--	--
SEP 12, 72	1045	2	.3	17000	29.3	8.0	5.5	75	--	114
			2.4	17000	29.3	8.0	5.3	73	--	--
MAY 08, 73	1044	2	.3	340	23.9	6.8	9.1	107	--	52
			1.5	250	22.4	6.8	8.8	100	--	--
			2.4	280	22.5	6.8	8.7	99	--	--
SEP 12, 72	1055	3	.3	15000	29.2	7.9	6.0	81	--	71
			2.1	15000	29.1	7.9	6.2	84	--	--
MAY 08, 73	1054	3	.3	250	24.4	6.8	9.2	108	--	33
			1.5	500	22.5	6.9	8.6	98	--	--
			2.7	500	22.7	6.9	8.5	98	--	--
SEP 12, 72	1100	4	.3	15000	29.3	7.9	5.8	78	--	66
			2.1	15000	29.2	7.9	5.8	78	--	--
MAY 08, 73	1104	4	.3	220	23.4	6.6	8.8	102	--	37
			1.5	200	22.3	6.6	8.6	98	--	--
			2.4	180	22.4	6.6	8.5	97	--	--
					LINE 300					
SEP 12, 72	1125	1	.3	25000	29.3	8.2	5.4	77	--	91
			2.4	27000	29.1	8.2	5.4	77	--	--
SEP 12, 72	1155	1	.3	24000	28.5	8.2	7.6	106	--	51
			2.4	24000	28.4	8.0	9.3	127	--	--
MAY 08, 73	1000	1	.3	460	22.8	7.2	9.2	106	--	30
			1.8	600	22.8	7.2	9.3	107	--	--
SEP 12, 72	1130	2	.3	26000	29.4	8.2	5.2	73	--	--
			2.4	26000	29.4	8.2	5.1	72	--	--
SEP 12, 72	1200	2	.3	26000	28.6	8.1	8.3	117	--	81
			3.0	27000	28.6	8.0	8.1	116	--	--
MAY 08, 73	0945	2	.3	330	22.7	7.1	8.9	102	--	46
			1.5	330	22.4	7.0	8.8	100	--	--
			3.0	330	22.4	7.0	8.8	100	--	--
SEP 12, 72	1140	3	.3	20000	29.1	8.3	6.0	83	--	102

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

WATER YEARS 1972 AND 1973--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					
SEP 12, 72	1140	3	2.1	23000	29.2	8.3	6.0	83	--	--
SEP 12, 72	1210	3	.3	17000	28.8	7.6	8.5	116	--	51
			2.1	18000	28.7	7.7	9.0	123	--	--
MAY 08, 73	0925	3	.3	420	22.7	7.0	9.4	108	--	36
			1.5	540	22.4	6.9	9.1	103	--	--
			2.4	540	22.5	6.9	10.1	115	--	--
					LINE 323					
MAY 08, 73	1235	2	.3	220	24.0	6.0	7.0	82	--	33
			3.0	210	22.4	6.0	6.6	75	--	--
			4.6	220	22.5	6.0	6.7	76	--	--
			6.1	210	22.3	6.0	6.7	76	--	--
			9.1	210	22.2	6.0	6.8	77	--	--
			13.7	210	22.2	6.0	6.9	78	--	--
					LINE 339					
SEP 12, 72	1025	2	.3	28000	30.0	8.0	8.1	117	--	107
			3.0	29000	30.0	8.1	6.8	99	--	--
			12.2	33000	30.0	8.1	7.1	106	--	--
MAY 08, 73	1305	2	.3	250	24.5	6.1	7.3	86	--	20
			1.5	230	22.8	6.1	7.1	82	--	--
			3.0	220	22.5	6.1	7.0	80	--	--
			4.6	250	22.4	6.1	7.0	80	--	--
			6.1	250	22.3	6.1	7.0	80	--	--
			9.1	250	22.2	6.0	7.1	81	--	--
			11.3	230	22.3	6.1	7.5	85	--	--
					LINE 353					
SEP 12, 72	1035	2	.3	24000	30.5	7.3	2.0	29	--	48
			1.5	28000	30.0	7.8	4.7	68	--	--
			3.0	28000	30.5	7.9	5.7	84	--	--
			4.6	28000	30.0	7.9	6.5	94	--	--
MAY 08, 73	1321	2	.3	400	24.4	6.1	3.6	42	--	13
			1.5	370	24.1	6.1	3.3	39	--	--
			3.0	380	23.9	6.0	3.6	42	--	--
			5.2	390	23.8	6.0	3.4	40	--	--
					LINE 369					
SEP 12, 72	1100	2	.3	37000	30.1	8.2	7.8	118	--	102
			1.5	37000	30.0	8.2	8.0	121	--	--
			6.1	38000	30.0	8.2	7.2	109	--	--
			12.2	38000	30.0	8.2	7.8	118	--	--
MAY 08, 73	1345	2	.3	280	25.9	6.2	7.4	90	--	20
			1.5	280	22.7	6.1	6.6	76	--	--
			3.0	300	22.5	6.1	6.7	76	--	--
			4.6	300	22.4	6.1	6.5	74	--	--
			6.1	330	22.4	6.1	6.5	74	--	--
			9.1	330	22.3	6.1	6.5	74	--	--
			13.7	330	22.1	6.2	6.6	75	--	--
					LINE 377					
SEP 12, 72	1245	2	.3	33000	29.7	--	5.0	75	--	99
			1.5	33000	29.7	--	5.0	75	--	--
			3.0	34000	29.8	--	5.0	75	--	--

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

WATER YEARS 1972 AND 1973--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					
SEP 12, 72	1245	2	6.1	34000	29.8	--	5.1	76	--	--
			9.1	34000	29.8	--	5.2	78	--	--
			12.2	35000	29.7	--	5.8	87	--	--
MAY 08, 73	1350	2	.3	410	24.2	7.2	7.2	85	85	28
			3.0	400	23.3	7.4	6.7	78	90	--
			4.6	1400	23.3	7.3	6.4	75	100	--
			6.1	4600	23.4	7.7	6.7	79	45	--
			7.6	16000	23.5	8.4	6.8	84	30	--
			9.1	26000	23.6	8.4	6.8	86	35	--
			13.7	29000	23.8	8.5	6.8	93	30	--
						LINE 903				
MAY 08, 73	1310	2	.3	18000	25.8	8.7	8.8	113	20	41
			1.5	18000	25.1	8.8	9.1	114	25	--
			3.0	20000	24.0	8.8	7.3	92	15	--
			6.1	32000	23.8	9.0	6.9	91	20	--
			10.7	34000	23.6	9.2	6.8	89	30	--
						LINE 910				
MAY 08, 73	1230	2	.3	24000	24.6	8.8	8.9	114	10	109
			1.5	30000	23.8	8.8	9.1	117	10	--
			3.0	36000	23.5	8.7	7.2	95	10	--
			6.1	40000	23.0	8.8	6.0	81	10	--
			9.1	42000	22.9	8.7	5.7	78	30	--
						LINE 925				
MAY 08, 73	1125	2	1.5	48000	22.5	8.6	6.4	88	0	300
			6.1	50000	22.7	8.6	6.3	89	0	--
			16.8	50000	22.7	8.7	6.7	94	0	--

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

WATER YEARS 1972 AND 1973--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)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 15						
SEP 11, 72	1350	2	.3	1.7	.0	.20	.02	.00	.06	1.0	14.0	27.0
MAY 07, 73	1500	2	.3	4.5	.2	.10	.01	.00	.04	1.0	--	16.0
						LINE 87						
SEP 11, 72	1540	2	.3	2.6	.0	.20	.22	.02	.04	2.8	10.0	10.0
			8.5	3.0	.0	.09	.47	.02	.06	1.6	23.0	14.0
MAY 07, 73	1645	2	.3	4.8	.2	.08	.01	.00	.04	1.0	21.0	--
			11.3	4.7	.2	.08	.01	.00	.05	1.1	28.0	43.0
						LINE 107						
SEP 11, 72	1445	2	.3	5.9	.0	.04	.03	.00	.02	.5	15.0	10.0
MAY 07, 73	1600	2	.3	6.7	.2	.13	.01	.00	.24	1.4	36.0	--
						LINE 214						
SEP 11, 72	1630	2	.3	3.2	.0	.14	.44	.00	.02	2.7	22.0	--
			12.2	2.5	.0	.10	.50	.00	.02	.7	16.0	--
MAY 07, 73	1730	2	.3	6.4	.2	.21	.02	.00	.07	.9	38.0	18.0
			13.7	6.4	.2	.19	.02	.00	.08	1.0	41.0	14.0
						LINE 244						
SEP 12, 72	0950	2	.3	4.3	.0	.06	.23	.00	.02	1.2	27.0	--
			1.8	4.1	.0	.04	.20	.00	.02	1.1	--	--
MAY 08, 73	1140	2	.3	3.8	.2	.03	.02	.00	.05	1.0	22.0	31.0
			2.4	3.6	.2	.13	.02	.00	.04	.8	--	--
SEP 12, 72	0900	5	.3	3.0	.0	.02	.28	.00	.04	1.4	25.0	--
			1.2	2.8	.0	.05	.56	.00	.04	1.5	--	--
MAY 08, 73	1220	5	.3	5.9	.3	.11	.02	.00	.06	1.6	38.0	20.0
			1.5	6.0	.2	.15	.02	.00	.06	1.6	--	--
						LINE 300						
SEP 12, 72	1130	2	.3	2.5	.0	.07	.19	.00	.03	.9	16.0	10.0
			2.4	2.5	.0	.02	.20	.00	.02	.9	--	10.0
SEP 12, 72	1200	2	.3	2.9	.0	.00	.20	.00	.03	.9	21.0	--
			3.0	2.7	.0	.08	.16	.04	.05	.7	33.0	--
MAY 08, 73	0945	2	.3	4.7	.3	.14	.02	.00	.05	.9	20.0	13.0
			3.0	5.3	.3	.10	.02	.00	.05	.9	--	--
						LINE 369						
SEP 12, 72	1100	2	.3	1.0	.0	.04	.05	.02	.03	.8	18.0	--
			12.2	1.0	.0	.12	.03	.00	.02	1.2	13.0	--
MAY 08, 73	1345	2	.3	5.9	.3	.15	.02	.00	.08	2.7	29.0	--
			13.7	6.3	.3	.22	.02	.00	.13	2.2	36.0	--
						LINE 377						
MAY 08, 73	1350	2	.3	5.0	.3	.05	.02	.00	.07	1.2	30.0	14.0

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

WATER YEARS 1972 AND 1973--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)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 377 CONTINUED						
MAY 08, 73	1350	2	13.7	1.0	.2	.08	.01	.00	.04	.6	--	--
						LINE 903						
MAY 08, 73	1310	2	.3	2.7	.4	.04	.01	.00	.05	1.3	--	--
			10.7	1.0	.3	.07	.01	.00	.02	.7	--	--
						LINE 910						
MAY 08, 73	1230	2	1.5	.8	.2	.03	.01	.00	.02	1.5	39.0	11.0
			9.1	.8	.0	.05	.01	.00	.03	.7	--	--
						LINE 925						
MAY 08, 73	1125	2	1.5	.2	.0	.03	.01	.00	.01	.9	10.0	--
			16.8	5.0	.0	.03	.00	.00	.00	1.0	--	--

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

WATER YEARS 1972 AND 1973

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM + POTAS-SIUM (NA+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					
SEP 11, 72	1350	2	.3	223	12.0	2.9	33	45	20	40	132
MAY 07, 73	1500	2	.3	142	7.5	2.3	16	26	12	20	76
						LINE 87					
SEP 11, 72	1540	2	.3	7210	--	--	--	--	--	--	--
			8.5	27200	220.0	700.0	5200	88	1200	9500	16900
MAY 07, 73	1645	2	.3	193	--	--	--	--	--	--	--
			11.3	235	--	--	--	--	--	--	--
						LINE 107					
SEP 11, 72	1445	2	.3	480	12.0	8.0	64	38	26	100	237
MAY 07, 73	1600	2	.3	144	5.0	3.5	13	22	13	16	69
						LINE 214					
SEP 11, 72	1630	2	.3	22400	--	--	--	--	--	--	--
			12.2	28600	--	--	--	--	--	--	--
MAY 07, 73	1730	2	.3	209	--	--	--	--	--	--	--
			13.7	203	--	--	--	--	--	--	--
						LINE 244					
SEP 12, 72	0950	2	.3	16900	--	--	--	--	--	--	--
			1.8	17200	--	--	--	--	--	--	--
MAY 08, 73	1140	2	.3	335	--	--	--	--	--	--	--
			2.4	609	--	--	--	--	--	--	--
SEP 12, 72	0900	5	.3	14800	--	--	--	--	--	--	--
			1.2	14900	--	--	--	--	--	--	--
MAY 08, 73	1220	5	.3	224	--	--	--	--	--	--	--
			1.5	222	--	--	--	--	--	--	--
						LINE 300					
SEP 12, 72	1130	2	.3	26800	230.0	660.0	5600	97	1500	9800	17700
			2.4	27900	--	--	--	--	--	--	--
SEP 12, 72	1200	2	.3	26500	220.0	670.0	5100	94	1200	9200	16500
			3.0	27300	--	--	--	--	--	--	--
MAY 08, 73	0945	2	.3	327	9.2	3.7	43	30	18	62	157
			3.0	326	--	--	--	--	--	--	--
						LINE 369					
SEP 12, 72	1100	2	.3	37400	280.0	800.0	7400	121	1800	13000	22400
			12.2	38300	--	--	--	--	--	--	--
MAY 08, 73	1345	2	.3	283	10.0	3.9	36	27	20	54	--
			13.7	328	--	--	--	--	--	--	--
						LINE 377					
MAY 08, 73	1350	2	.3	426	9.2	6.3	59	31	22	90	209

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

WATER YEARS 1972 AND 1973--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM + POTAS-SIUM (NA+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 377 CONTINUED						
MAY 08, 73	1350	2	13.7	31200	--	--	--	--	--	--	--
						LINE 903					
MAY 08, 73	1310	2	.3	17100	--	--	--	--	--	--	--
			10.7	33300	--	--	--	--	--	--	--
						LINE 910					
MAY 08, 73	1230	2	1.5	31500	--	--	--	--	--	--	--
			9.1	42700	--	--	--	--	--	--	--
						LINE 925					
MAY 08, 73	1125	2	1.5	47500	370.0	1100.0	10000	--	2500	18000	32000
			16.8	49400	--	--	--	--	--	--	--

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

WATER YEARS 1972 AND 1973

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)
						LINE 15				
SEP 11, 72	1350	2	.3	--	0	--	--	0	--	--
			7.6	--	--	--	1	--	--	0
						LINE 87				
SEP 11, 72	1540	2	.3	--	0	--	--	0	--	--
			8.5	--	0	--	--	0	--	--
						LINE 107				
SEP 11, 72	1445	2	.3	--	0	--	--	1	--	--
			7.3	--	--	--	1	--	--	--
						LINE 214				
SEP 11, 72	1630	2	.3	--	0	--	--	0	--	--
			12.2	--	0	--	--	1	--	--
						LINE 294				
SEP 12, 72	0900	5	.3	--	0	--	--	3	--	--
						LINE 300				
SEP 12, 72	1120	2	.3	--	0	--	--	0	--	--
						LINE 369				
SEP 12, 72	1100	2	.3	--	0	--	--	1	--	--
			12.2	--	0	--	--	0	--	--

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

WATER YEARS 1972 AND 1973--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					
SEP 11, 72	1350	2	.3	0	--	--	--	--	4	--	--
			7.6	--	--	--	--	3	--	--	2
						LINE 87					
SEP 11, 72	1540	2	.3	0	--	--	--	--	6	--	--
			8.5	0	--	--	--	--	8	--	--
						LINE 107					
SEP 11, 72	1445	2	.3	0	--	--	--	--	9	--	--
			7.3	--	--	--	--	3	--	--	1
						LINE 214					
SEP 11, 72	1630	2	.3	0	--	--	--	--	8	--	--
			12.2	0	--	--	--	--	8	--	--
						LINE 244					
SEP 12, 72	0900	5	.3	0	--	--	--	--	7	--	--
						LINE 300					
SEP 12, 72	1120	2	.3	0	--	--	--	--	6	--	--
						LINE 369					
SEP 12, 72	1100	2	.3	0	--	--	--	--	13	--	--
			12.2	0	--	--	--	--	7	--	--

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

WATER YEARS 1972 AND 1973--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					
SEP 11, 72	1350	2	.3	--	--	20	--	--	5	--	--
			7.6	--	--	--	--	8400	--	--	5
						LINE 87					
SEP 11, 72	1540	2	.3	--	--	0	--	--	0	--	--
			8.5	--	--	0	--	--	0	--	--
						LINE 107					
SEP 11, 72	1445	2	.3	--	--	670	--	--	0	--	--
			7.3	--	--	--	--	4400	--	--	4
						LINE 214					
SEP 11, 72	1630	2	.3	--	--	0	--	--	0	--	--
			12.2	--	--	0	--	--	0	--	--
						LINE 244					
SEP 12, 72	0900	5	.3	--	--	0	--	--	0	--	--
						LINE 300					
SEP 12, 72	1120	2	.3	--	--	0	--	--	0	--	--
						LINE 369					
SEP 12, 72	1100	2	.3	--	--	320	--	--	0	--	--
			12.2	--	--	0	--	--	0	--	--

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

WATER YEARS 1972 AND 1973--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 NICKLE (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
						LINE 15						
SEP 11, 72	1350	2	.3	10	0	--	--	--	--	--	--	190
			7.6	--	--	--	520	--	--	.0	--	--
						LINE 87						
SEP 11, 72	1540	2	.3	30	80	--	--	--	--	--	--	1000
			8.5	100	60	--	--	--	--	--	--	3400
						LINE 107						
SEP 11, 72	1445	2	.3	10	100	--	--	--	--	--	--	430
			7.3	--	--	--	200	--	--	.0	--	--
						LINE 214						
SEP 11, 72	1630	2	.3	80	80	--	--	--	--	--	--	2800
			12.2	100	60	--	--	--	--	--	--	3600
						LINE 244						
SEP 12, 72	0900	5	.3	60	0	--	--	--	--	--	--	1800
						LINE 300						
SEP 12, 72	1120	2	.3	100	0	--	--	--	--	--	--	3500
						LINE 369						
SEP 12, 72	1100	2	.3	120	30	--	--	--	--	--	--	4300
			12.2	110	30	--	--	--	--	--	--	4300

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

WATER YEARS 1972 AND 1973--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
SEP 11, 72	1350	2	.3	57	--	--
			7.6	--	--	35
						LINE 87
SEP 11, 72	1540	2	.3	21	--	--
			8.5	29	--	--
						LINE 107
SEP 11, 72	1445	2	.3	140	--	--
			7.3	--	--	19
						LINE 214
SEP 11, 72	1630	2	.3	22	--	--
			12.2	32	--	--
						LINE 244
SEP 12, 72	0900	5	.3	19	--	--
						LINE 300
SEP 12, 72	1120	2	.3	11	--	--
						LINE 369
SEP 12, 72	1100	2	.3	18	--	--
			12.2	8	--	--

Brazos Estuary

The Brazos estuary covers an area of about 3 square miles (8 square kilometers) 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 harbor are discharged into the estuary.

Water-quality data (Table 2) were collected during September 1972 and May 1973.

The changes in line numbers to facilitate storage in the Texas Water Oriented Data Bank and to provide opportunity to coordinate data-collection sites among all agencies are shown below. New line numbers are used in Table 2 and on Figure 3.

All data collected prior to the changes in line numbers are stored in the data bank under the new line numbers.

Brazos Estuary Change in Line Numbers

OLD	NEW	OLD	NEW
1	10	11	110
2	20	12	120
3	30	13	138
4	40	14	145
5	50	15	155
6	60	16	165
7	70		
8	80		
9	90		
10	100		

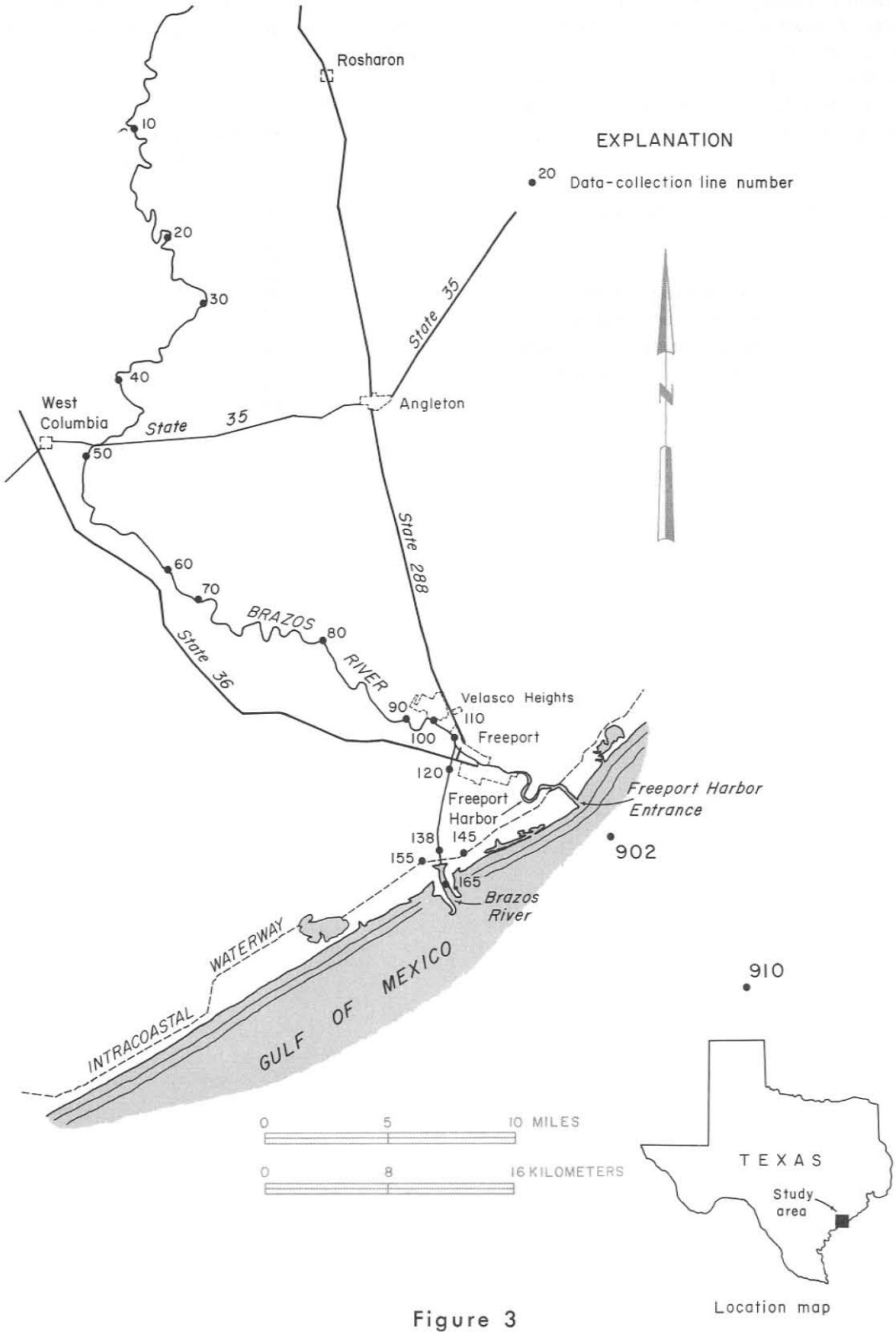

Figure 3

Data-Collection Sites in the Brazos Estuary

Base by U. S. Geological Survey, 1956

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

WATER YEARS 1972 AND 1973

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				
SEP 13, 72	1115	2	.3	120	29.2	8.0	8.2	105	--	23
			.9	110	29.1	8.0	7.8	100	--	--
MAY 09, 73	1305	2	.3	660	24.4	7.5	7.6	89	--	--
			1.5	630	24.2	7.5	7.5	88	--	--
			3.0	610	24.1	7.4	7.7	91	--	--
			5.2	650	24.0	7.4	7.9	93	--	--
						LINE 20				
SEP 13, 72	1210	2	.3	110	29.6	8.1	12.0	156	--	15
			1.5	110	29.6	8.1	16.2	210	--	--
						LINE 30				
SEP 13, 72	1235	2	.3	110	29.6	7.9	11.0	143	--	30
			1.5	110	30.0	8.1	13.8	182	--	--
			3.0	110	29.7	8.2	12.6	164	--	--
MAY 09, 73	1350	2	.3	660	24.3	7.5	7.6	89	--	--
			1.5	580	24.2	7.5	7.6	89	--	--
			3.0	650	24.1	7.5	7.6	89	--	--
			4.6	660	24.3	7.5	7.6	89	--	--
			6.7	700	24.5	7.5	7.6	90	--	--
						LINE 40				
SEP 13, 72	1300	2	.3	110	29.8	8.1	10.5	138	--	33
			2.1	110	30.4	8.1	14.0	184	--	--
						LINE 50				
SEP 13, 72	1325	2	.3	100	31.3	8.1	8.6	115	--	30
			1.5	100	31.0	8.1	10.1	135	--	--
			3.7	110	30.3	8.1	8.6	113	--	--
MAY 09, 73	1430	2	.3	630	24.2	7.6	8.0	94	--	--
			1.5	650	24.1	7.6	7.8	92	--	--
			3.0	640	24.1	7.6	7.8	92	--	--
			4.6	650	24.2	7.6	7.9	93	--	--
			6.1	660	24.3	7.6	7.3	86	--	--
			7.6	650	25.0	7.6	7.4	88	--	--
						LINE 60				
SEP 13, 72	1400	2	.3	110	31.1	8.2	12.0	160	--	30
			1.5	110	30.9	8.1	11.5	153	--	--
			3.0	110	30.8	8.1	10.0	133	--	--
						LINE 70				
SEP 13, 72	1430	2	.3	1100	30.8	9.2	7.5	100	--	30
			1.5	1200	30.8	9.3	7.0	93	--	--
			3.7	1600	30.8	9.7	6.4	85	--	--
MAY 09, 73	1515	2	.3	640	24.3	7.6	8.4	99	--	--
			1.5	700	24.2	7.6	8.3	98	--	--
			3.0	660	24.2	7.6	8.4	99	--	--
			4.6	620	24.1	7.6	8.3	98	--	--
			6.1	660	24.1	7.6	8.4	99	--	--

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

WATER YEARS 1972 AND 1973--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 70 CONTINUED					
MAY 09, 73	1515	2	7.3	670	24.6	7.6	8.0	95	--	--
					LINE 80					
SEP 13, 72	1400	2	.3	8200	31.8	8.7	7.9	110	--	--
			1.5	8600	31.9	8.7	7.2	100	--	--
			3.0	41000	34.7	8.1	.0	0	--	--
			6.1	46000	35.3	8.2	.0	0	--	--
			9.1	46000	35.2	8.5	.0	0	--	--
			12.2	46000	35.1	9.0	.0	0	--	--
MAY 09, 73	1515	2	.3	740	25.2	8.1	7.9	94	--	8
			1.5	740	25.2	8.1	8.0	95	--	--
			3.7	740	25.4	8.2	8.4	101	--	--
					LINE 90					
SEP 13, 72	1335	1	.3	12000	31.5	9.1	11.3	157	--	48
			1.2	12000	31.6	9.5	11.3	159	--	--
SEP 13, 72	1325	2	.3	12000	31.6	8.6	10.7	151	--	53
			1.5	13000	31.9	8.4	8.2	115	--	--
			3.0	46000	34.9	7.7	.0	0	--	--
			4.6	46000	34.9	7.7	.0	0	--	--
MAY 09, 73	1540	2	.3	750	24.9	7.9	7.7	92	--	5
			1.5	740	24.9	8.0	7.8	93	--	--
			6.1	740	25.0	8.0	8.0	95	--	--
			11.6	740	25.2	8.0	8.4	100	--	--
SEP 13, 72	1320	3	.3	12000	31.7	8.8	9.3	131	--	56
			1.5	14000	32.0	8.8	5.7	80	--	--
			3.0	46000	35.1	8.1	.0	0	--	--
			4.6	46000	35.0	8.3	.0	0	--	--
			5.8	46000	34.8	8.9	.0	0	--	--
					LINE 100					
SEP 13, 72	1305	1	.3	13000	32.1	8.7	9.5	134	--	64
			1.5	35000	34.8	7.2	4.7	76	--	--
			3.0	31000	34.6	7.4	5.8	92	--	--
MAY 09, 73	1605	1	.3	4300	25.5	7.8	7.3	89	700	--
			1.5	5600	25.7	7.7	7.3	90	650	--
			3.0	10000	26.4	7.6	7.8	98	--	--
SEP 13, 72	1240	2	.3	17000	32.2	8.4	6.5	121	--	61
			1.2	41000	34.4	7.0	4.3	70	--	--
			2.4	46000	34.4	8.0	.0	0	--	--
MAY 09, 73	1550	2	.3	3900	24.9	8.0	7.3	88	600	5
			1.5	5300	25.7	8.2	7.1	88	600	--
			2.4	7300	25.7	8.0	7.1	88	--	--
			3.4	12000	26.9	8.4	7.8	100	450	--.
SEP 13, 72	1235	3	.3	18000	32.4	8.7	5.5	79	--	64
			1.5	46000	34.6	8.5	.0	0	--	--
MAY 09, 73	1600	3	.3	3100	25.5	8.5	7.6	93	600	--
			1.5	3900	25.5	8.6	8.3	101	--	--
			3.4	4300	25.4	8.7	9.1	111	--	--
					LINE 110					
SEP 13, 72	1220	1	.3	29000	33.4	8.2	4.1	62	--	69

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

WATER YEARS 1972 AND 1973--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					
SEP 13, 72	1220	1	1.2	46000	34.4	7.8	2.5	42	--	--
			2.4	46000	34.2	7.8	2.3	39	--	--
MAY 09, 73	1625	1	.3	5000	25.8	8.5	6.9	85	600	--
			1.5	5000	25.9	8.5	6.9	85	600	--
			3.0	5000	25.9	8.6	6.5	80	--	--
SEP 13, 72	1210	2	.3	24000	33.0	8.3	6.0	90	--	76
			1.5	43000	34.4	8.1	.9	15	--	--
			3.4	46000	34.4	7.9	.9	15	--	--
MAY 09, 73	1620	2	.3	5300	26.1	8.6	7.4	92	600	8
			1.5	5100	26.2	8.6	7.7	96	700	--
			4.6	5100	26.2	8.6	8.2	102	--	--
SEP 13, 72	1205	3	.3	25000	33.0	8.7	6.4	96	--	74
			1.5	42000	34.4	8.6	.1	2	--	--
MAY 09, 73	1630	3	.3	5500	26.1	8.6	7.4	92	--	--
			1.5	5500	26.0	8.6	7.5	94	--	--
			4.0	5500	25.9	8.6	8.0	100	--	--
					LINE 120					
SEP 13, 72	1150	2	.3	29000	33.2	8.3	4.9	74	--	81
			1.5	39000	34.2	8.1	.8	13	--	--
			3.0	41000	34.4	7.9	1.1	18	--	--
			4.9	41000	34.3	7.9	.9	15	--	--
SEP 13, 72	1155	2	.3	32000	33.5	8.2	3.8	59	--	79
			1.5	44000	34.3	7.9	1.1	19	--	--
			3.0	44000	34.2	8.2	1.2	20	--	--
SEP 13, 72	1140	3	.3	29000	32.8	8.4	3.9	59	--	84
			1.2	39000	33.8	8.3	1.4	23	--	--
			2.4	43000	34.3	8.4	.2	3	--	--
			3.7	43000	34.2	8.7	.6	10	--	--
					LINE 138					
SEP 13, 72	1125	1	.3	40000	33.5	7.7	1.0	16	--	91
			1.5	46000	34.1	7.3	.0	0	--	--
			3.0	46000	34.2	7.5	.0	0	--	--
			4.3	46000	34.1	7.5	.0	0	--	--
SEP 13, 72	1105	2	.3	40000	33.0	4.9	1.3	21	--	91
			1.5	40000	33.4	5.1	.4	0	--	--
			3.0	41000	34.1	5.1	.0	0	--	--
			5.5	42000	33.9	5.9	.0	0	--	--
MAY 09, 73	1645	2	.3	5400	26.2	8.4	7.0	88	--	8
			1.5	5400	26.2	8.5	7.0	88	--	--
			6.1	5400	26.3	8.6	7.3	91	--	--
SEP 13, 72	1055	3	.3	40000	32.8	6.6	.9	15	--	94
			.9	41000	32.7	7.2	.5	8	--	--
			1.8	41000	32.6	8.0	.1	2	--	--
					LINE 145					
MAY 09, 73	1120	2	.3	6300	24.9	8.8	7.9	96	150	25
			1.5	6300	24.9	8.9	7.4	90	--	--
			3.4	6300	24.8	9.0	7.4	90	--	--
					LINE 155					
SEP 13, 72	1040	2	.3	42000	31.8	7.6	.6	10	--	107

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

WATER YEARS 1972 AND 1973--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 155 CONTINUED					
SEP 13, 72	1040	2	1.5	42000	31.8	7.9	.6	10	--	--
			3.0	42000	31.7	8.1	.6	10	--	--
			4.6	42000	31.5	8.7	.6	10	--	--
MAY 09, 73	1130	2	.3	6100	25.1	8.4	7.5	91	600.	8
			1.5	6100	25.1	8.4	7.5	91	--	--
			3.4	6100	25.2	8.6	9.4	115	--	--
					LINE 165					
SEP 13, 72	1020	1	.3	40000	32.1	7.2	.0	0	--	114
			1.5	41000	32.6	7.3	.0	0	--	--
			2.4	41000	32.4	7.5	.0	0	--	--
SEP 13, 72	1010	2	.3	39000	32.0	7.2	.0	0	--	117
			1.5	42000	32.5	7.1	.0	0	--	--
			3.0	42000	32.5	7.2	.0	0	--	--
			4.3	42000	32.5	7.4	.0	0	--	--
MAY 09, 73	1140	2	.3	6100	25.1	8.3	7.3	89	200.	8
			1.5	6100	25.0	8.4	7.2	88	--	--
			4.6	6100	25.0	8.4	8.1	99	--	--
SEP 13, 72	1005	3	.3	38000	31.8	6.6	.0	0	--	91
			.9	39000	31.8	6.3	.0	0	--	--
					LINE 902					
MAY 09, 73	1045	30	.3	28000	24.2	8.8	10.6	138	15.	168
			3.0	28000	24.1	8.8	10.5	136	15.	--
			6.1	28000	23.6	8.7	7.4	95	15.	--
			9.1	34000	23.7	8.7	7.4	97	25.	--
			13.7	37000	23.6	8.7	6.3	84	25.	--
					LINE 910					
MAY 09, 73	0955	30	.3	28000	24.1	8.8	13.0	169	5.	160
			1.5	28000	24.1	8.8	13.0	169	5.	--
			3.0	29000	23.9	8.7	12.0	156	5.	--
			6.1	37000	22.9	8.5	6.7	88	0.	--
			9.1	40000	22.9	8.5	6.5	88	0.	--
			15.2	43000	22.7	8.5	7.0	95	0.	--
			21.3	50000	22.6	8.3	6.2	87	0.	--

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

WATER YEARS 1972 AND 1973

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)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 10						
SEP 13, 72	1115	2	.3	6.3	.0	.01	.02	.00	.10	5.0	--	--
			.9	6.2	.0	.00	.02	.10	.35	2.1	--	--
MAY 09, 73	1305	2	.3	6.8	.4	.02	.02	.08	.64	.9	--	--
			5.2	6.9	.2	.08	.02	.06	.68	1.2	--	--
						LINE 50						
SEP 13, 72	1325	2	.3	6.2	.0	.00	.00	.02	.08	2.1	9.0	--
			3.7	6.3	.0	.01	.00	.02	.09	2.0	8.0	--
MAY 09, 73	1430	2	.3	6.2	.4	.12	.01	.06	.51	.7	--	--
			7.6	6.0	.1	.07	.01	.06	.60	.8	--	--
						LINE 100						
SEP 13, 72	1240	2	.3	5.0	.0	.78	.04	.00	.01	5.9	--	13.0
			2.4	1.6	.1	5.00	.17	.00	.02	8.3	17.0	17.0
MAY 09, 73	1550	2	.3	5.5	.4	.66	.01	.06	.42	2.0	--	--
			3.4	4.3	.4	2.80	.02	.07	.43	3.9	--	26.0
						LINE 138						
SEP 13, 72	1105	2	.3	3.1	.2	1.60	.16	.00	.00	6.1	53.0	12.0
			5.5	2.2	.4	.86	.48	.00	.01	7.1	26.0	16.0
MAY 09, 73	1645	2	.3	5.4	.6	.64	.02	.06	.29	2.2	--	--
			6.1	5.3	.4	.63	.02	.06	.50	2.1	--	24.0
						LINE 902						
MAY 09, 73	1045	30	.3	1.0	.1	.07	.01	.00	.02	1.7	--	--
			13.7	.7	.0	.06	.01	.00	.02	.5	--	--
						LINE 910						
MAY 09, 73	0955	30	.3	.1	.0	.08	.00	.00	.02	2.3	--	18.0
			21.3	.9	.0	.06	.01	.00	.01	.8	--	--

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

WATER YEARS 1972 AND 1973

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM + POTASSIUM (NA+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 10					
SEP 13, 72	1115	2	.3	1030	--	--	--	--	--	--	--
			.9	1070	76.0	20.0	120	172	100	200	607
MAY 09, 73	1305	2	.3	736	56.0	9.4	77	123	77	110	403
			5.2	769	--	--	--	--	--	--	--
						LINE 50					
SEP 13, 72	1325	2	.3	984	--	--	--	--	--	--	--
			3.7	984	--	--	--	--	--	--	--
MAY 09, 73	1430	2	.3	781	--	--	--	--	--	--	--
			7.6	781	--	--	--	--	--	--	--
						LINE 100					
SEP 13, 72	1240	2	.3	17500	180.0	430.0	3300	179	870	6000	10900
			2.4	47800	380.0	1200.0	9000	146	2300	16000	29200
MAY 09, 73	1550	2	.3	4270	78.0	78.0	810	129	230	1400	2630
			3.4	12200	120.0	220.0	2300	135	530	3900	7120
						LINE 138					
SEP 13, 72	1105	2	.3	41700	--	--	--	--	--	--	--
			5.5	48100	--	--	--	--	--	--	--
MAY 09, 73	1645	2	.3	5790	--	--	--	--	--	--	--
			6.1	5800	--	--	--	--	--	--	--
						LINE 902					
MAY 09, 73	1045	30	.3	26200	--	--	--	--	--	--	--
			13.7	37400	--	--	--	--	--	--	--
						LINE 910					
MAY 09, 73	0955	30	.3	26800	220.0	650.0	5600	118	1400	9800	17600
			21.3	51400	--	--	--	--	--	--	--

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

WATER YEARS 1972 AND 1973

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMINUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)
						LINE 10				
SEP 13, 72	1115	2	.3	--	0	--	--	0	--	--
						LINE 100				
SEP 13, 72	1240	2	.3	--	0	--	--	0	--	--
			2.4	--	0	--	--	0	--	--

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM (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					
SEP 13, 72	1115	2	.3	0	--	--	--	--	6.0	--	--
						LINE 100					
SEP 13, 72	1240	2	.3	0	--	--	--	--	7.0	--	--
			2.4	0	--	--	--	--	5.0	--	--

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					
SEP 13, 72	1115	2	.3	--	--	0	--	--	0	--	--
						LINE 100					
SEP 13, 72	1240	2	.3	--	--	0	--	--	0	--	--
			2.4	--	--	0	--	--	0	--	--

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

WATER YEARS 1972 AND 1973--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BOTTOM DEPOSIT MANGANESE (MN) (UG/GM)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	BOTTOM DEPOSIT MERCURY (HG) (UG/GM)	DIS-SOLVED NICKLE (NI) (UG/L)	DIS-SOLVED STRONTIUM (SR) (UG/L)
						LINE 10						
SEP 13, 72	1115	2	.3	10	0	--	--	--	--	--	--	1400
						LINE 100						
SEP 13, 72	1240	2	.3	60	20	--	--	--	--	--	--	2300
			2.9	140	80	--	--	--	--	--	--	5100

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
SEP 13, 72	1115	2	.3	5	--	--
						LINE 100
SEP 13, 72	1240	2	.3	8	--	--
			2.9	13	--	--

East Matagorda Estuary

The East Matagorda estuary covers an area of about 56 square miles (145 square kilometers) 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 meters) in East Matagorda Bay and about 15 feet (4.6 meters) in the Intracoastal Waterway.

Water-quality data (Table 3) were collected during September 1972 and May 1973.

The changes in line numbers to facilitate storage in the Texas Water Oriented Data Bank and to provide opportunity to coordinate data-collection sites among all agencies are shown below. New line numbers are used in Table 3 and Figure 4.

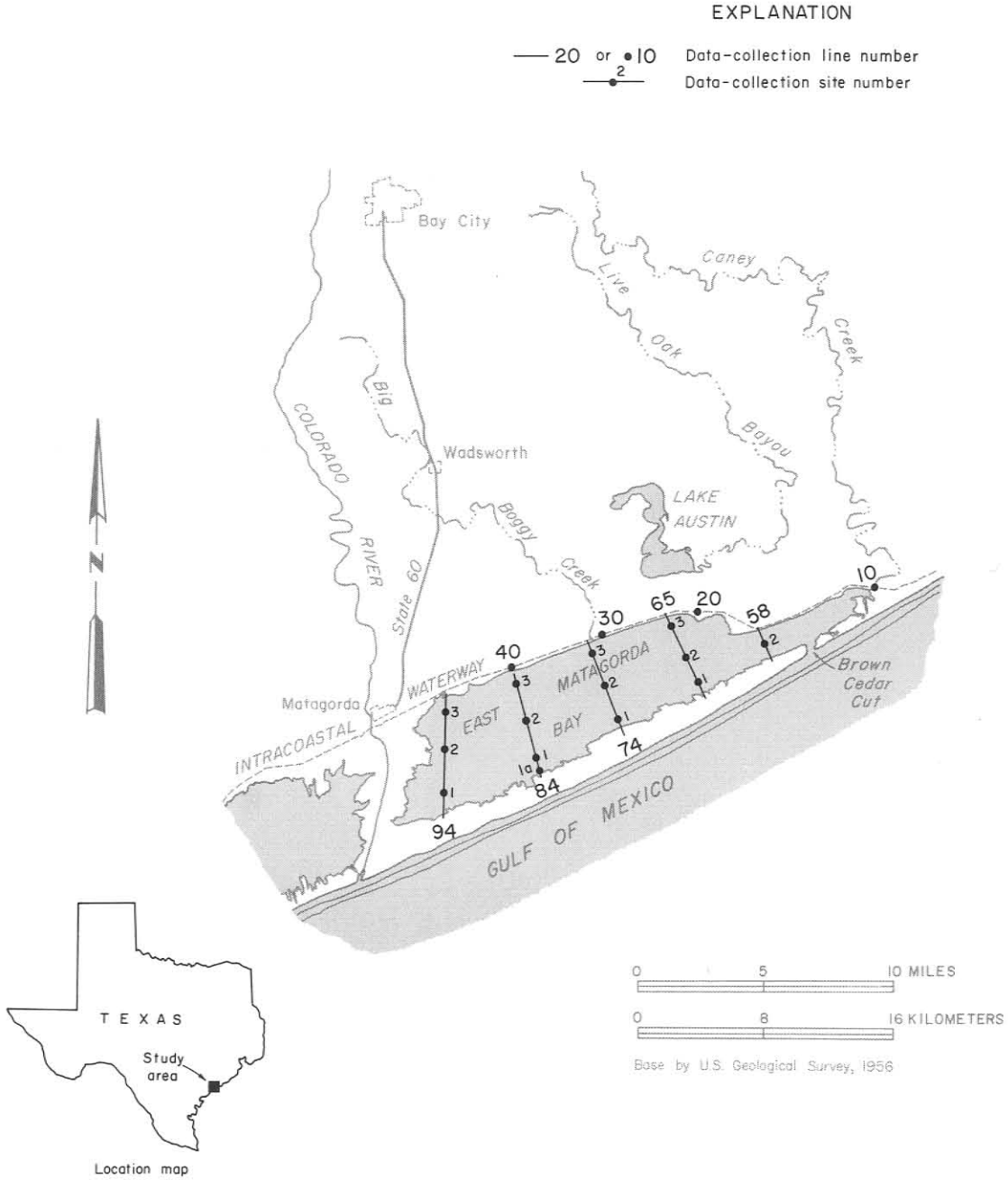

Figure 4.—Data-Collection Sites in the East Matagorda Estuary

All data collected prior to the changes in line numbers are stored in the data bank under the new line numbers.

East Matagorda Estuary
Change in Line Numbers

OLD	NEW	OLD	NEW
1	10	6	65
2	20	7	74
3	30	8	84
4	40	9	94
5	58		

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

WATER YEARS 1972 AND 1973

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				
SEP 14, 72	1015	2	.3	50000	29.5	8.5	7.4	111	--	51
			1.5	50000	29.5	8.5	4.5	70	--	--
			3.0	50000	29.4	8.5	4.5	70	--	--
			4.6	50000	29.4	8.6	4.4	69	--	--
			5.5	50000	29.1	--	5.4	84	--	--
MAY 10, 73	1115	2	.3	22000	26.1	7.8	7.0	92	--	30
			1.5	22000	25.8	7.9	6.8	89	--	--
			3.0	22000	25.7	7.9	6.8	88	--	--
			4.6	22000	25.6	7.9	6.8	88	--	--
			5.2	22000	25.5	7.9	6.9	90	--	--
						LINE 20				
MAY 10, 73	1145	2	.3	8000	26.7	8.4	7.9	100	--	29
			1.5	24000	26.1	8.1	7.2	95	--	--
			5.2	28000	26.2	8.1	6.7	91	--	--
						LINE 30				
SEP 14, 72	0940	2	.3	39000	28.4	7.8	6.4	93	--	43
			1.5	39000	28.5	7.6	6.4	87	--	--
			3.0	39000	28.5	7.5	6.0	87	--	--
			4.3	39000	28.3	7.1	6.0	87	--	--
MAY 10, 73	1200	2	.3	19000	26.8	7.8	7.6	100	--	32
			1.5	24000	26.3	7.9	7.2	95	--	--
			4.1	24000	26.3	7.9	7.0	92	--	--
						LINE 40				
SEP 14, 72	1445	2	.3	39000	28.5	8.4	6.0	88	--	36
			1.5	39000	28.4	8.5	6.5	96	--	--
			3.0	39000	28.3	8.5	5.7	84	--	--
			4.6	39000	28.2	8.5	6.1	90	--	--
			6.1	39000	28.1	8.6	6.6	93	--	--
MAY 10, 73	1215	2	.3	24000	26.5	7.9	7.5	99	--	34
			1.5	24000	26.1	7.8	7.0	92	--	--
			4.0	24000	26.3	7.8	7.2	95	--	--
						LINE 58				
SEP 14, 72	1115	2	.3	50000	28.4	--	6.7	105	--	43
			1.2	50000	28.0	--	6.2	95	--	--
MAY 10, 73	1235	2	.3	28000	26.8	8.7	8.4	115	50	44
			1.2	29000	26.6	8.8	8.0	110	80	--
						LINE 74				
SEP 14, 72	1315	1	.3	34000	27.7	--	6.0	75	--	43
			1.2	40000	27.6	--	6.0	88	--	--
MAY 10, 73	1213	1	.3	28000	26.7	8.3	7.8	107	30	81
			1.2	27000	26.6	8.4	8.2	112	40	--
SEP 14, 72	1250	2	.3	45000	27.8	8.4	5.7	86	--	43
			1.5	45000	27.6	8.3	6.2	94	--	--
MAY 10, 73	1200	2	.3	26000	26.8	8.5	8.1	109	40	47

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

WATER YEARS 1972 AND 1973--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 10, 73	1200	2	1.5	25000	26.4	8.7	7.2	96	75	--
SEP 14, 72	1230	3	.3	38000	27.4	8.3	7.3	106	--	53
			1.2	40000	27.2	8.3	7.0	101	--	--
MAY 10, 73	1136	3	.3	25000	26.7	8.5	9.0	122	60	41
			.9	25000	26.6	8.6	9.3	126	70	--
					LINE 94					
MAY 10, 73	1055	1	.3	28000	26.0	8.3	7.8	105	--	69
			1.2	28000	25.8	8.4	7.5	101	--	--
SEP 14, 72	1355	2	.3	43000	28.0	8.5	6.2	93	--	46
			1.5	43000	28.0	8.6	6.4	96	--	--
MAY 10, 73	1107	2	.3	26000	26.1	8.3	8.6	115	40	56
			1.5	26000	26.0	8.4	8.1	108	--	--
SEP 14, 72	1345	3	.3	43000	28.1	--	6.1	90	--	53
			1.5	37000	28.0	--	6.4	93	--	--
SEP 14, 72	1430	3	.3	29000	27.9	8.7	6.6	93	--	33
			1.2	29000	27.8	8.6	7.0	99	--	--
MAY 10, 73	1116	3	.3	25000	26.3	8.3	8.6	115	70	43
			.9	25000	26.2	8.5	8.9	119	80	--

TABLE 38--QUALITY OF WATER IN THE EAST MATAGORDA ESTUARY,

WATER YEARS 1972 AND 1973

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)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 10						
SEP 14, 72	1015	2	.3 5.5	1.5 1.1	.0 .0	.46 .38	.10 .09	.00 .00	.01 .02	2.5 2.7	24.0 11.0	7.0 --
MAY 10, 73	1115	2	.3 5.2	6.0 4.8	.2 .1	.19 .16	.02 .02	.06 .04	.10 .10	1.4 1.5	--	13.0 13.0
						LINE 40						
SEP 14, 72	1445	2	.3 6.1	4.7 4.0	.0 .0	.00 .00	.02 .02	.00 .00	.00 .00	1.1 1.3	25.0 44.0	--
MAY 10, 73	1215	2	.3 4.0	5.0 4.8	.0 .0	.08 .08	.01 .01	.01 .01	.04 .06	1.5 1.1	--	11.0 12.0
						LINE 58						
SEP 14, 72	1115	2	.3 1.2	.7 .5	.0 .0	.00 .09	.02 .03	.00 .00	.02 .00	2.2 2.0	-- 34.0	6.0 --
MAY 10, 73	1235	2	.3 1.2	3.1 2.8	.0 .0	.07 .11	.00 .01	.00 .00	.03 .06	2.3 2.7	--	9.0 --
						LINE 74						
SEP 14, 72	1250	2	.3 1.5	3.5 3.5	.0 .0	.00 .00	.02 .02	.03 .00	.04 .00	2.1 2.2	18.0 20.0	10.0 10.0
MAY 10, 73	1200	2	.3 1.5	3.8 4.2	.0 .0	.05 .06	.00 .00	.00 .00	.03 .05	1.4 1.6	--	10.0 16.0
						LINE 94						
MAY 10, 73	1055	1	.3 1.2	4.0 3.7	.0 .0	.23 .10	.00 .00	.00 .00	.02 .03	.8 .7	--	8.0 --
SEP 14, 72	1355	2	.3 1.5	3.5 3.5	.0 .0	.00 .00	.02 .02	.00 .00	.02 .00	1.1 1.4	23.0 --	9.0 --

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

WATER YEARS 1972 AND 1973

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 + POTASSIUM (NA+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					
SEP 14, 72	1015	2	.3	49800	--	--	--	--	--	--	--
			5.5	50300	--	--	--	--	--	--	--
MAY 10, 73	1115	2	.3	18000	--	--	--	--	--	--	--
			5.2	22000	--	--	--	--	--	--	--
						LINE 40					
SEP 14, 72	1445	2	.3	38900	300.0	850.0	7400	164	1800	13000	23400
			6.1	38000	--	--	--	--	--	--	--
MAY 10, 73	1215	2	.3	23200	190.0	530.0	4500	135	1100	7900	14200
			4.0	22700	--	--	--	--	--	--	--
						LINE 58					
SEP 14, 72	1115	2	.3	50000	390.0	1300.0	9600	142	2100	18000	31000
			1.2	50100	--	--	--	--	--	--	--
MAY 10, 73	1235	2	.3	26800	220.0	640.0	5500	135	1300	9600	17400
			1.2	27300	--	--	--	--	--	--	--
						LINE 74					
MAY 10, 73	1200	2	.3	24200	--	--	--	--	--	--	--
			1.5	24200	--	--	--	--	--	--	--
						LINE 94					
MAY 10, 73	1055	1	.3	26000	--	--	--	--	--	--	--
			1.2	26300	--	--	--	--	--	--	--
SEP 14, 72	1355	2	.3	43200	--	--	--	--	--	--	--
			1.5	43300	--	--	--	--	--	--	--

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

WATER YEARS 1972 AND 1973-

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMINUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	
					LINE 40						
SEP 14, 72	1445	2	.3	--	0	--	--	0	--	--	
					LINE 58						
SEP 14, 72	1115	2	.3	--	0	--	--	0	--	--	
			1.2	--	--	--	3	--	--	0	
					LINE 94						
SEP 14, 72	1355	2	.3	--	0	--	--	0	--	--	
			1.5	--	--	--	4	--	--	0	

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM (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 40						
SEP 14, 72	1445	2	.3	0	--	--	--	--	9	--	--	
						LINE 58						
SEP 14, 72	1115	2	.3	0	--	--	--	1	9	--	7	
			1.2	--	--	--	--	--	--	--	--	
						LINE 94						
SEP 14, 72	1355	2	.3	0	--	--	--	2	9	--	9	
			1.5	--	--	--	--	--	--	--	--	

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 40						
SEP 14, 72	1445	2	.3	--	--	0	--	--	0	--	--	
						LINE 58						
SEP 14, 72	1115	2	.3	--	--	0	--	--	0	--	--	
			1.2	--	--	--	--	21000	--	--	2	
						LINE 94						
SEP 14, 72	1355	2	.3	--	--	0	--	--	0	--	--	
			1.5	--	--	--	--	24000	--	--	2	

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

WATER YEARS 1972 AND 1973--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 NICKLE (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
						LINE 40						
SEP 14, 72	1445	2	.3	100	0	--	--	--	--	--	--	4300
						LINE 58						
SEP 14, 72	1115	2	.3 1.2	140 --	0 --	-- --	-- 410	-- --	-- --	-- .0	-- --	5500 --
						LINE 94						
SEP 14, 72	1355	2	.3 1.5	120 --	70 --	-- --	-- 420	-- --	-- --	-- .0	-- --	4800 --

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 40	
SEP 14, 72	1445	2	.3	12	--	--
					LINE 58	
SEP 14, 72	1115	2	.3 1.2	17 --	-- --	-- 54
					LINE 94	
SEP 14, 72	1355	2	.3 1.5	10 --	-- --	-- 71

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

WATER YEARS 1972 AND 1973

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 74					
SEP 14, 72	1250	2	.3	<	.1	--	.00	--	.00	--	.00	--
							LINE 94					
SEP 14, 72	1355	2	.3	<	.1	--	.00	--	.00	--	.00	--

Colorado Estuary

The Colorado estuary covers an area of about 2 square miles (5 square kilometers) 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 (2.7 meters) in the river channel and about 15 feet (4.6 meters) in the Intracoastal Waterway.

Water-quality data (Table 4) were collected in April and September 1972 and May 1973.

The changes in line numbers to facilitate storage in the Texas Water Oriented Data Bank and to provide opportunity to coordinate data-collection sites among all agencies are shown below. New line numbers are used in Table 4 and on Figure 5.

All data collected prior to the changes in line numbers are stored in the data bank under the new line numbers.

Colorado Estuary Change in Line Numbers

OLD	NEW	OLD	NEW
1	18	9	95
2	22	10	105
2b	25	11	115
3	33	12	125
4	44	13	135
5	55	13a	137
New line	59	14	147
6	66	Parkers Cut	152
7	73	8a	164
8	81	Lavaca-Tres Palacios 31	175

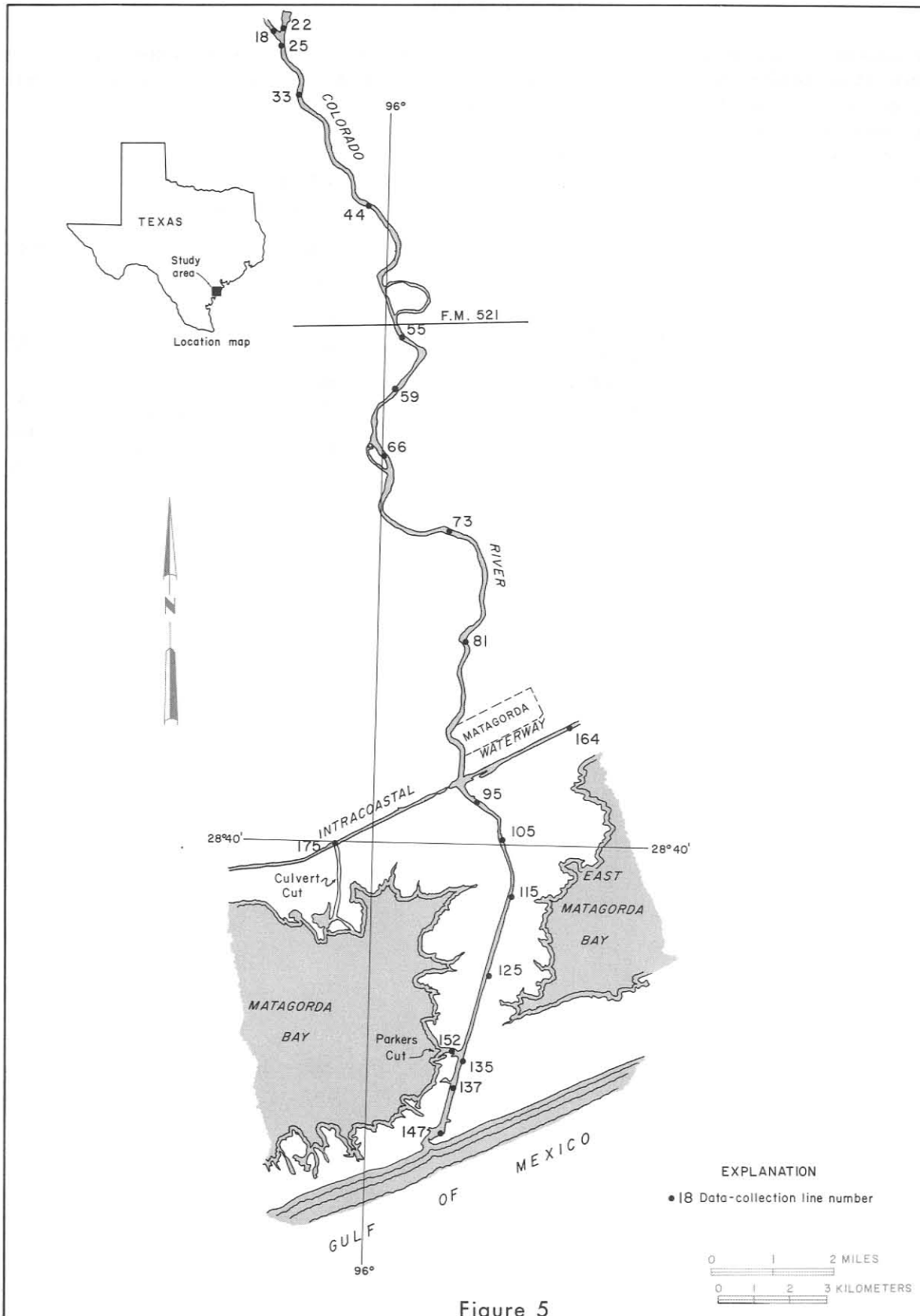

Figure 5

Data-Collection Sites in the Colorado Estuary

Base by U.S. Geological Survey, 1956

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

WATER YEARS 1972 AND 1973

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					
SEP 14, 72	0930	2	.3	1400	29.0	7.9	7.7	99	--	--
			1.5	2100	29.3	7.9	7.7	101	--	--
			3.0	34000	28.9	7.2	.8	11	--	--
			5.8	34000	28.8	7.1	6.5	93	--	--
MAY 10, 73	1345	2	.3	470	27.6	8.0	8.7	109	--	15
			1.5	460	26.9	7.9	8.6	106	--	--
			2.1	580	27.8	8.2	6.5	108	--	--
					LINE 22					
SEP 14, 72	1010	2	.3	1600	29.4	8.1	7.7	100	--	71
			1.5	7900	30.0	8.1	7.8	105	--	--
			1.8	32000	29.9	7.7	5.1	74	--	--
			2.1	10000	29.6	7.2	2.4	32	--	--
			3.0	32000	29.3	7.1	3.3	47	--	--
			4.6	32000	29.4	7.1	4.9	70	--	--
					LINE 33					
SEP 14, 72	1030	2	.3	1900	29.8	8.1	7.9	105	--	71
			1.5	34000	30.0	8.0	8.5	125	--	--
			2.1	26000	29.9	7.3	.0	0	--	--
			3.0	34000	29.6	7.3	1.4	21	--	--
			4.9	34000	29.5	7.4	1.2	18	--	--
					LINE 44					
SEP 14, 72	1045	2	.3	4100	29.6	8.2	11.1	146	--	64
			1.5	34000	30.1	7.9	8.8	129	--	--
			3.0	34000	30.0	7.4	2.0	29	--	--
			4.6	36000	29.9	7.4	1.5	22	--	--
			5.8	34000	29.8	7.4	2.3	34	--	--
					LINE 55					
SEP 14, 72	1100	2	.3	12000	30.0	8.0	17.4	235	--	74
			1.5	21000	30.0	7.6	10.0	139	--	--
			2.1	32000	30.0	7.4	1.3	19	--	--
			3.0	36000	29.9	7.4	1.3	19	--	--
			4.3	35000	29.8	7.4	3.7	54	--	--
MAY 10, 73	1410	2	.3	520	26.3	8.0	9.7	118	--	28
			1.5	520	26.3	8.0	9.7	118	--	--
			3.0	520	25.8	7.9	9.1	111	--	--
			7.3	520	25.8	7.8	8.8	107	--	--
					LINE 81					
APR 19, 72	1435	2	.3	12000	27.5	8.2	8.3	108	--	72
			.9	13000	27.3	8.2	8.1	105	--	--
			1.2	16000	27.1	8.1	6.6	86	--	--
			1.5	19000	26.5	8.0	5.0	66	--	--
			2.1	30000	26.3	7.9	4.7	64	--	--
			3.0	39000	26.0	7.9	4.5	63	--	--
			4.6	39000	26.0	7.9	4.5	63	--	--
			6.1	39000	26.0	7.9	4.3	61	--	--
			7.0	39000	26.2	7.9	4.0	56	--	--
SEP 14, 72	1200	2	.3	17000	28.4	--	6.3	85	--	--
			1.5	21000	28.6	--	5.9	81	--	--

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

WATER YEARS 1972 AND 1973--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 81 CONTINUED					
SEP 14, 72	1200	2	3.0	38000	29.3	--	2.6	39	--	--
			6.1	44000	29.2	--	1.0	15	--	--
			9.1	44000	29.2	--	1.2	18	--	--
			10.7	45000	29.0	--	2.0	30	--	--
MAY 10, 73	1435	2	.3	560	26.2	8.1	9.9	121	--	36
			1.5	650	25.4	8.1	9.1	110	--	--
			3.0	1000	25.1	8.1	8.4	100	--	--
			4.6	12000	25.0	7.6	7.2	89	--	--
			6.1	14000	25.2	7.7	7.0	88	--	--
			9.1	14000	25.3	7.7	7.1	90	--	--
					LINE 95					
SEP 14, 72	1340	2	.3	22000	28.9	--	6.6	92	--	71
			1.5	38000	29.4	--	4.3	64	--	--
			3.0	45000	29.0	--	4.3	65	--	--
			4.9	49000	29.0	--	4.4	69	--	--
MAY 10, 73	1350	2	.3	2000	27.3	8.4	10.1	128	50	38
			1.5	4500	26.7	8.3	8.9	111	--	--
			2.1	14000	26.6	8.1	8.0	102	--	--
			3.0	18000	26.6	8.1	7.5	99	--	--
			4.0	22000	26.5	8.4	7.4	97	70	--
					LINE 105					
APR 19, 72	1510	2	.3	31000	27.2	8.0	6.6	92	--	46
			1.5	33000	27.1	8.0	6.2	87	--	--
			3.0	35000	26.7	8.0	5.4	76	--	--
			4.9	37000	26.8	7.9	5.2	73	--	--
					LINE 125					
SEP 14, 72	1325	2	.3	38000	28.4	--	6.2	90	--	56
			1.5	47000	28.5	--	4.8	73	--	--
			3.0	47000	28.5	--	5.4	82	--	--
			4.6	47000	28.3	--	6.1	92	--	--
MAY 10, 73	1411	2	.3	4200	27.4	8.4	10.7	135	--	--
			.8	4400	27.4	8.3	10.3	130	--	--
			1.5	9500	26.5	8.2	8.4	105	--	--
			2.1	22000	26.3	8.1	7.2	95	--	--
			3.0	27000	26.4	8.5	7.7	104	--	--
			4.6	32000	26.4	8.8	8.9	122	70	--
					LINE 135					
APR 19, 72	1545	2	.3	35000	28.1	8.1	7.9	114	--	53
			.9	41000	27.6	8.2	7.6	112	--	--
			1.5	43000	27.5	8.2	7.4	109	--	--
			3.0	43000	27.5	8.2	7.2	106	--	--
					LINE 147					
SEP 14, 72	1300	2	.3	45000	27.2	--	6.8	99	--	--
			1.5	43000	27.2	--	8.2	117	--	--
MAY 10, 73	1445	2	.3	30000	27.3	8.8	10.9	154	70	38
			.8	30000	27.3	8.9	10.9	154	80	--
					LINE 152					
DEC 04, 71	1045	2	.3	35000	21.1	7.5	8.7	112	--	94

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

WATER YEARS 1972 AND 1973--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 152 CONTINUED						
DEC 04, 71	1045	2	1.5	42000	21.2	7.7	7.6	100	--	--
			4.0	42000	21.2	8.6	8.0	105	--	--
APR 19, 72	1535	2	.3	34000	27.2	8.1	7.6	107	--	53
			.9	34000	27.2	8.1	7.8	110	--	--
			1.2	36000	27.1	8.1	7.6	107	--	--
			1.5	43000	27.0	8.1	7.1	104	--	--
			3.0	43000	26.9	8.1	6.9	101	--	--
			4.1	43000	26.9	8.1	6.5	96	--	--
SEP 14, 72	1315	2	.3	43000	28.2	--	5.3	78	--	61
			1.5	47000	28.2	--	5.2	78	--	--
			3.0	49000	28.2	--	5.1	77	--	--
			4.3	46000	28.0	--	5.2	78	--	--
MAY 10, 73	1430	2	.3	4400	27.4	8.4	11.1	140	40	53
			1.5	18000	26.8	8.4	9.3	122	--	--
			3.0	29000	26.9	8.6	9.2	126	--	--
			4.0	29000	26.8	8.7	9.2	126	70	--
					LINE 164					
SEP 14, 72	1515	2	.3	36000	29.3	--	5.4	81	--	41
			1.5	41000	29.3	--	5.2	78	--	--
			3.0	39000	29.4	--	5.3	79	--	--
			4.6	41000	29.4	--	5.3	79	--	--
			5.5	39000	29.2	--	5.8	85	--	--
MAY 10, 73	1315	2	.3	24000	27.0	8.5	7.6	101	50	43
			1.5	24000	26.9	8.5	7.4	99	--	--
			3.0	24000	26.8	8.6	7.5	100	--	--
			4.9	24000	26.7	8.7	8.2	109	75	--
					LINE 175					
SEP 14, 72	1400	2	.3	37000	28.8	--	5.4	79	--	43
			1.5	41000	29.0	--	7.1	104	--	--
			3.0	41000	29.0	--	6.9	101	--	--
			4.6	41000	29.1	--	7.6	112	--	--
			5.5	41000	29.0	--	6.0	88	--	--
MAY 10, 73	1335	2	.3	13000	27.2	8.2	8.0	103	60	33
			1.5	14000	26.8	8.3	7.8	100	--	--
			3.0	14000	26.7	8.4	7.6	99	--	--
			4.6	14000	26.8	8.4	7.6	99	95	--

TABLE 48--QUALITY OF WATER IN THE COLORADO ESTUARY,

WATER YEARS 1972 AND 1973

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)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 18						
SEP 14, 72	0930	2	.3 5.8	11.0 8.2	.0 .0	.00 1.10	.00 .02	.02 .27	.08 .29	1.9 2.5	13.0 --	-- --
MAY 10, 73	1345	2	.3 2.1	9.7 9.7	.5 .5	.04 .06	.01 .01	.16 .15	.22 .24	.8 1.2	-- --	9.5 --
						LINE 81						
SEP 14, 72	1200	2	.3 10.7	14.0 3.2	.0 .0	.01 .27	.02 .03	.02 .02	.05 .04	-- 2.0	-- 23.0	-- --
MAY 10, 73	1435	2	.3 9.1	10.0 6.9	.6 .2	.05 .12	.01 .01	.16 .07	.17 .09	1.5 .9	-- --	7.5 9.5
						LINE 95						
SEP 14, 72	1340	2	.3 4.9	9.6 1.2	.0 .0	.07 .28	.03 .03	.00 .04	.05 .04	2.4 1.2	23.0 21.0	-- --
MAY 10, 73	1350	2	.3 4.0	9.2 5.1	.4 .1	.06 .10	.01 .01	.13 .03	.13 .06	1.5 1.1	-- --	8.0 9.5

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

WATER YEARS 1972 AND 1973

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 + POTASSIUM (NA+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 18					
SEP 14, 72	0930	2	.3	1440	65.0	41.0	200	228	120	320	865
			5.8	33800	--	--	--	--	--	--	--
MAY 10, 73	1345	2	.3	473	38.0	15.0	38	145	37	56	268
			2.1	584	--	--	--	--	--	--	--
						LINE 81					
SEP 14, 72	1200	2	.3	16200	--	--	--	--	--	--	--
			10.7	45300	--	--	--	--	--	--	--
MAY 10, 73	1435	2	.3	586	--	--	--	--	--	--	--
			9.1	14900	--	--	--	--	--	--	--
						LINE 95					
SEP 14, 72	1340	2	.3	22600	210.0	520.0	4300	191	1300	7500	14000
			4.9	49200	--	--	--	--	--	--	--
MAY 10, 73	1350	2	.3	2030	67.0	49.0	330	203	100	570	1230
			4.0	20200	--	--	--	--	--	--	--

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

WATER YEARS 1972 AND 1973

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)	
						LINE 18					
SEP 14, 72	0930	2	.3	--	0	--	--	0	--	--	
						LINE 95					
SEP 14, 72	1340	2	.3	--	0	--	--	0	--	--	

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					
SEP 14, 72	0930	2	.3	0	--	--	--	--	3	--	--
						LINE 95					
SEP 14, 72	1340	2	.3	0	--	--	--	--	11	--	--

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					
SEP 14, 72	0930	2	.3	--	--	0	--	--	0	--	--
						LINE 95					
SEP 14, 72	1340	2	.3	--	--	0	--	--	0	--	--

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

WATER YEARS 1972 AND 1973--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BOTTOM DEPOSIT MANGANESE (MN) (UG/GM)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	BOTTOM DEPOSIT MERCURY (HG) (UG/GM)	DIS-SOLVED NICKLE (NI) (UG/L)	DIS-SOLVED STRONTIUM (SR) (UG/L)
						LINE 18						
SEP 14, 72	0930	2	.3	0	0	--	--	--	--	--	--	1100
						LINE 95						
SEP 14, 72	1340	2	.3	70	40	--	--	--	--	--	--	3000

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
SEP 14, 72	0930	2	.3	10	--	--
						LINE 95
SEP 14, 72	1340	2	.3	15	--	--

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

WATER YEARS 1972 AND 1973

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL ALDRIN (UG/L)	BOTTOM DEPOSIT ALDRIN (UG/KG)	TOTAL CHLORDANE (UG/L)	BOTTOM DEPOSIT CHLORDANE (UG/KG)	TOTAL DDD (UG/L)	BOTTOM DEPOSIT DDD (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDE (UG/KG)
						LINE 18					
SEP 14, 72	0930	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 95					
SEP 14, 72	1340	2	.3	.00	--	.0	--	.00	--	.00	--

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL DDT (UG/L)	BOTTOM DEPOSIT DDT (UG/KG)	TOTAL DIELDRIN (UG/L)	BOTTOM DEPOSIT DIELDRIN (UG/KG)	TOTAL ENDRIN (UG/L)	BOTTOM DEPOSIT ENDRIN (UG/KG)	TOTAL HEPTACHLOR (UG/L)	BOTTOM DEPOSIT HEPTACHLOR (UG/KG)
						LINE 18					
SEP 14, 72	0930	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 95					
SEP 14, 72	1340	2	.3	.00	--	.00	--	.00	--	.00	--

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL HEPTACHLOR EPOXIDE (UG/L)	BOTTOM DEPOSIT HEPTACHLOR EPOXIDE (UG/KG)	TOTAL LINDANE (UG/L)	BOTTOM DEPOSIT LINDANE (UG/KG)	TOTAL PARATHION (UG/L)	TOTAL METHYL PARATHION (UG/L)	TOTAL MALATHION (UG/L)	TOTAL DIAZINON (UG/L)
						LINE 18					
SEP 14, 72	0930	2	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 95					
SEP 14, 72	1340	2	.3	.00	--	.00	--	.00	.00	.00	.00

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					
SEP 14, 72	0930	2	.3	< .1	--	.00	--	.00	--	.00	--
						LINE 95					
SEP 14, 72	1340	2	.3	< .1	--	.17	--	.00	--	.00	--

Lavaca-Tres Palacios Estuary

The Lavaca-Tres Palacios estuary covers about 350 square miles (910 square kilometers) 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 parts of the Intracoastal Waterway (Figure 6). Water depth at mlw is 13 feet (4.0 meters) or less in Matagorda Bay, except in the Matagorda Ship Channel, which is more than 40 feet (12.2 meters) deep. The rivers generally are less than 15 feet (4.6 meters) deep.

Water-quality data (Table 5) were collected during February, April, May, June, July, August, and October 1972, and January, April, June, and July 1973.

The changes in line numbers to facilitate storage in the Texas Water Oriented Data Bank and to provide opportunity to coordinate data-collection sites among all

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

agencies are shown below. New line numbers are used in Table 5 and on Figure 6.

All data collected prior to the changes in line numbers are stored in the data bank under the new line numbers.

Lavaca-Tres Palacios Estuary Change in Line Numbers

OLD	NEW	OLD	NEW
1	17	22	224
2	22	22a	229
3	35	23	235
4	45	24	249
4a	49	24a	254
5	55	24b	255
6	65	25	258
7	79	26	264
8	85	27	270
9	90	28	284
10	102	29	299
11	110	30	300
12	125	31	310
13	129	32	320
14	140	Colorado-Parkers Cut	330
14a	143	33	333
14b	144	34	340
14c	145	35	350
15	150	36	363
16	169	37	375
17	175	38	382
18	180	39	397
19	190	Guadalupe	
21	210	40	400

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

WATER YEARS 1972 AND 1973

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 23, 72	1510	2	.3	830	20.9	8.1	14.8	164	--	--
			1.5	830	20.7	8.0	13.4	147	--	--
			3.0	870	20.2	7.9	12.0	130	--	--
			4.6	870	20.3	7.8	11.1	122	--	--
APR 18, 72	1100	2	.3	910	26.2	7.9	9.8	120	--	46
			.9	910	26.1	7.8	8.9	109	--	--
			1.5	950	25.9	7.8	8.4	102	--	--
			3.0	970	25.9	7.8	8.1	99	--	--
			5.0	970	26.2	7.8	8.0	98	--	--
JUN 13, 72	1015	2	.3	750	27.4	7.7	7.3	91	--	59
			2.1	810	27.0	7.6	6.7	83	--	--
			4.0	810	27.0	7.6	6.8	84	--	--
AUG 22, 72	1150	2	.3	740	29.9	8.3	9.0	118	--	--
			1.5	760	29.7	8.3	8.6	112	--	--
			3.0	760	29.3	8.1	5.6	73	--	--
SEP 22, 72	0925	2	.3	860	29.0	8.0	6.8	87	--	43
			1.5	920	28.9	8.0	6.6	85	--	--
			3.4	1200	28.7	7.8	5.4	69	--	--
OCT 12, 72	1235	2	.3	1800	28.1	8.2	9.0	114	10	122
			1.5	1800	27.5	8.2	8.4	105	--	--
			2.1	7400	27.3	7.6	4.2	54	--	--
			3.4	10000	26.7	7.3	1.4	18	10	--
JAN 16, 73	1000	2	.3	1500	11.7	7.7	11.8	108	--	38
			1.5	1600	11.5	7.7	11.9	108	--	--
			2.1	10000	12.2	7.1	5.2	49	--	--
			3.4	20000	12.9	7.1	3.9	39	--	--
APR 09, 73	1340	2	.3	520	16.4	7.5	7.5	76	--	20
			1.5	520	16.3	7.5	7.8	79	--	--
			3.7	520	16.2	7.5	6.7	68	--	--
JUN 04, 73	1330	2	.3	750	28.6	--	9.6	123	--	67
			1.5	750	28.0	--	8.3	105	--	--
			3.5	750	27.8	--	7.4	94	--	--
JUN 22, 73	1330	2	.3	220	25.6	7.1	7.6	92	--	5
			4.0	220	25.7	7.1	8.1	98	--	--
JUL 03, 73	1315	2	.3	780	31.2	7.5	10.4	139	--	57
			.9	780	30.3	7.5	9.8	129	--	--
			1.8	780	29.5	7.3	7.4	96	--	--
			3.4	800	29.6	7.2	7.0	91	--	--
					LINE 22					
FEB 23, 72	1450	2	.3	500	20.9	7.7	11.6	129	--	33
			1.5	500	20.7	7.6	11.0	121	--	--
			3.4	510	20.1	7.3	9.4	102	--	--
APR 18, 72	1010	2	.3	850	25.5	7.7	6.8	82	--	46
			1.5	850	25.5	7.7	6.6	80	--	--
			3.4	880	25.5	7.6	6.2	75	--	--
JUN 13, 72	0955	2	.3	630	27.4	7.6	6.4	80	--	18
			1.5	650	27.4	7.7	6.5	81	--	--
			3.7	650	27.4	7.7	6.7	84	--	--
AUG 22, 72	1130	2	.3	530	29.9	7.8	7.3	96	--	38
			1.5	600	29.4	7.8	5.4	70	--	--

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

WATER YEARS 1972 AND 1973--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 22 CONTINUED					
AUG 22, 72	1130	2	2.7	800	29.3	8.1	5.0	65	--	--
SEP 22, 72	0845	2	.3	660	27.6	7.6	5.3	66	--	--
			1.2	680	27.5	7.6	5.2	65	--	--
			2.4	700	27.3	7.6	5.6	70	--	--
OCT 12, 72	1150	2	.3	630	26.8	7.9	9.2	114	35	66
			1.5	700	26.3	7.8	8.2	100	--	--
			2.1	1900	26.2	7.5	6.0	74	--	--
			2.7	5900	26.1	7.3	3.0	38	20	--
JAN 16, 73	0930	2	.3	240	12.4	7.2	11.0	103	--	15
			1.5	240	12.5	7.2	12.0	112	--	--
			2.7	1200	12.4	7.3	12.2	114	--	--
APR 09, 73	1315	2	.3	290	15.7	7.5	8.3	82	--	13
			1.5	290	15.7	7.5	8.6	85	--	--
			3.4	290	15.7	7.5	8.4	83	--	--
JUN 04, 73	1305	2	.3	750	29.0	--	9.1	117	--	58
			1.5	750	28.7	--	8.7	112	--	--
			3.0	800	28.2	--	7.6	96	--	--
JUN 22, 73	1315	2	.3	110	26.0	6.7	7.1	87	--	10
			3.7	120	25.8	6.7	7.3	89	--	--
JUL 03, 73	1215	2	.3	570	31.0	7.0	9.0	120	--	57
			1.5	570	29.8	6.7	7.0	92	--	--
			2.7	570	30.1	6.7	6.6	87	--	--
					LINE 35					
APR 18, 72	1025	2	.3	1300	25.4	7.9	6.2	99	--	43
			1.5	1300	25.4	7.9	6.1	98	--	--
			2.7	1300	25.4	7.9	7.9	95	--	--
JUN 13, 72	1007	2	.3	470	27.8	7.3	6.2	78	--	28
			2.1	470	27.6	7.3	6.2	78	--	--
AUG 22, 72	1140	2	.3	480	29.8	8.3	8.5	112	--	51
			2.1	500	29.3	8.2	6.4	83	--	--
JAN 16, 73	0949	2	.3	300	11.2	7.1	11.5	105	--	15
			1.8	900	11.2	7.2	11.6	105	--	--
APR 09, 73	1331	2	.3	290	16.0	7.5	8.4	84	--	18
			1.8	290	15.9	7.5	8.9	89	--	--
JUN 04, 73	1317	2	.3	750	28.3	7.0	8.4	106	--	53
			1.5	750	28.3	7.0	8.3	105	--	--
			2.7	750	28.2	7.2	8.3	105	--	--
					LINE 45					
FEB 23, 72	1430	2	.3	700	20.4	7.9	10.8	119	--	20
			1.5	700	20.4	7.8	10.7	118	--	--
			3.0	700	20.4	7.9	10.4	114	--	--
APR 18, 72	1120	2	.3	3700	25.9	8.1	6.3	102	--	48
			1.5	4000	25.8	8.1	7.7	95	--	--
			2.1	5700	25.8	7.9	5.9	74	--	--
			2.4	8700	25.7	7.8	4.4	54	--	--
			3.0	12000	25.8	7.6	2.9	37	--	--
JUN 13, 72	1035	2	.3	580	27.5	7.5	6.4	80	--	23
			3.0	600	27.3	7.5	6.5	81	--	--
AUG 22, 72	1220	2	.3	500	30.0	--	7.6	100	--	51

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

WATER YEARS 1972 AND 1973--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 45 CONTINUED					
AUG 22, 72	1220	2	1.5	500	30.0	--	7.5	99	--	--
			2.7	500	30.0	--	8.0	105	--	--
OCT 12, 72	1305	2	.3	2700	28.3	8.2	9.9	127	25	76
			.9	7400	27.6	7.8	7.8	100	--	--
			1.5	11000	27.5	7.5	5.0	64	--	--
			2.4	12000	27.3	7.4	4.7	61	15	--
JAN 16, 73	1020	2	.3	900	11.8	7.6	11.2	103	--	18
			1.5	19000	10.9	7.6	7.9	76	--	--
			2.4	24000	11.9	7.3	6.2	62	--	--
APR 09, 73	1352	2	.3	340	16.2	7.5	8.2	83	--	11
			1.5	320	15.8	7.5	8.2	82	--	--
			2.7	340	15.6	7.5	8.3	82	--	--
JUN 04, 73	1345	2	.3	750	28.3	7.2	8.0	101	--	62
			1.5	750	28.2	7.4	8.0	101	--	--
			3.4	750	28.3	7.8	7.8	99	--	--
JUN 22, 73	1240	2	.3	190	25.7	7.0	--	--	--	8
			1.5	190	25.7	7.0	--	--	--	--
			4.6	190	25.7	6.9	--	--	--	--
JUL 03, 73	1155	2	.3	650	30.4	7.1	9.3	122	--	56
			1.5	650	29.8	7.0	8.4	110	--	--
			3.0	650	29.8	6.8	7.9	104	--	--
					LINE 55					
FEB 23, 72	1420	2	.3	1000	20.5	7.8	10.2	112	--	18
			1.5	1000	20.5	7.8	10.2	112	--	--
			3.4	1000	20.7	7.9	10.0	110	--	--
APR 18, 72	1135	2	.3	6700	25.9	8.2	8.0	100	--	76
			1.5	6700	25.8	8.2	8.0	100	--	--
			2.7	7400	25.6	8.1	7.1	88	--	--
			3.4	16000	25.7	7.6	3.2	40	--	--
			4.0	16000	26.0	7.6	4.2	54	--	--
JUN 13, 72	1045	2	.3	750	28.0	7.7	7.0	89	--	38
			4.0	1400	27.9	7.6	6.2	78	--	--
AUG 22, 72	1230	2	.3	1100	30.7	--	7.6	101	--	48
			1.5	1200	30.2	--	7.1	93	--	--
			3.4	1800	30.0	--	4.9	64	--	--
JAN 16, 73	1120	2	.3	1900	12.7	7.7	11.9	112	--	20
			1.5	14000	12.4	8.1	12.0	117	--	--
			3.0	28000	11.6	7.7	9.7	99	--	--
APR 09, 73	1402	2	.3	440	16.0	7.6	8.3	83	--	10
			1.5	750	15.8	7.7	8.5	85	--	--
			2.4	800	16.2	8.1	9.3	94	--	--
			3.4	2000	16.4	8.2	10.0	102	--	--
JUN 04, 73	1354	2	.3	1000	27.8	7.7	7.4	94	--	53
			1.5	1000	27.8	8.0	7.6	96	--	--
			3.7	1000	27.8	8.4	7.5	95	--	--
JUN 15, 73	1125	2	.3	130	23.8	--	6.6	78	--	--
			1.5	110	23.8	--	5.4	64	--	--
			3.0	120	23.8	--	5.3	62	--	--
			6.1	120	23.8	--	5.2	61	--	--
JUN 18, 73	1235	2	.3	130	28.7	--	4.6	59	--	28
			1.5	130	28.6	--	4.7	60	--	--
			3.0	130	28.6	--	4.8	62	--	--

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

WATER YEARS 1972 AND 1973--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 55 CONTINUED					
JUN 18, 73	1235	2	5.2	130	28.7	--	5.2	67	--	--
					LINE 65					
FEB 23, 72	1400	2	.3	950	20.3	7.7	9.8	108	--	8
			1.5	950	20.2	7.7	9.4	102	--	--
			3.7	950	20.3	7.8	9.3	102	--	--
APR 18, 72	1150	2	.3	11000	25.8	8.0	7.7	96	--	64
			1.5	13000	25.8	8.0	7.3	92	--	--
			3.0	16000	25.8	7.9	5.8	74	--	--
			4.0	19000	25.9	7.8	5.7	74	--	--
MAY 17, 72	0915	2	.3	370	24.4	7.0	--	--	--	23
			1.5	370	24.4	7.0	--	--	--	--
			3.0	370	24.4	7.0	--	--	--	--
			4.6	370	24.4	7.0	--	--	--	--
MAY 22, 72	1530	2	.3	540	28.8	7.6	7.7	99	--	--
			4.6	600	28.8	7.5	7.0	90	--	--
JUN 13, 72	1120	2	.3	920	27.7	8.0	8.3	104	--	66
			2.1	920	27.7	7.9	8.0	100	--	--
			4.6	920	27.5	7.9	7.8	98	--	--
AUG 22, 72	1300	2	.3	1900	30.7	--	7.4	100	--	--
			1.5	1800	30.0	--	6.3	83	--	--
			3.0	1900	30.0	--	5.9	79	--	--
SEP 22, 72	1010	2	.3	3000	29.3	8.0	7.2	95	--	--
			1.5	4300	29.3	7.9	5.5	72	--	--
			3.4	14000	29.3	7.6	2.7	36	--	--
OCT 12, 72	1325	2	.3	6700	28.1	8.3	10.0	130	--	91
			1.5	15000	27.6	8.0	7.9	104	--	--
			2.7	20000	27.6	7.9	8.0	108	20	--
JAN 16, 73	1107	2	.3	6400	13.4	7.8	11.7	114	--	23
			1.5	20000	12.5	7.9	11.7	117	--	--
			3.4	27000	12.7	7.9	11.7	122	--	--
APR 09, 73	1435	2	.3	720	16.8	7.7	7.9	81	--	11
			1.5	750	16.2	7.7	8.1	82	--	--
			3.0	960	15.4	7.7	8.0	79	--	--
JUN 04, 73	1425	2	.3	3800	27.9	7.6	7.4	95	--	56
			1.5	3800	27.9	7.6	7.5	96	--	--
			3.0	4200	27.7	7.6	6.7	85	--	--
			4.0	7000	27.5	8.2	6.1	78	--	--
JUN 22, 73	1120	2	.3	240	25.6	7.2	--	--	--	10
			1.5	220	25.2	7.3	3.8	45	--	--
			3.0	220	25.1	7.3	3.8	45	--	--
			4.3	220	25.1	7.3	3.4	40	--	--
JUL 03, 73	1115	2	.3	670	30.5	6.9	7.5	99	--	64
			1.5	670	30.4	6.9	7.1	93	--	--
			3.0	670	30.4	6.9	7.0	92	--	--
					LINE 79					
FEB 23, 72	1345	2	.3	16000	20.2	8.2	9.5	109	--	8
			1.5	16000	20.2	8.2	10.1	116	--	--
			3.4	16000	20.3	8.2	9.7	111	--	--
APR 18, 72	1220	2	.3	23000	25.5	8.0	7.6	99	--	41
			1.5	23000	25.5	8.0	7.5	97	--	--

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

WATER YEARS 1972 AND 1973--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 79 CONTINUED					
APR 18, 72	1220	2	3.7	23000	25.7	8.0	7.4	96	--	--
JUN 13, 72	1205	2	.3	3700	29.0	8.0	7.8	101	--	36
			1.8	3600	29.0	8.0	7.7	100	--	--
AUG 22, 72	1338	2	.3	12000	31.0	--	7.7	107	--	43
			1.5	12000	30.0	--	7.1	97	--	--
			3.4	12000	30.0	--	6.3	86	--	--
JAN 16, 73	1242	2	.3	18000	14.5	8.1	11.3	116	--	79
			1.5	21000	14.8	8.1	11.3	119	--	--
			3.4	28000	14.2	8.0	11.2	120	--	--
APR 09, 73	1514	2	.3	2500	17.8	8.0	9.2	98	--	14
			1.5	2600	17.5	7.9	8.9	94	--	--
			3.4	3700	16.1	7.8	9.5	96	--	--
JUN 04, 73	1510	2	.3	13000	28.4	7.9	7.5	99	--	25
			1.5	14000	28.3	8.0	7.4	97	--	--
			3.4	15000	27.8	8.3	7.0	94	--	--
					LINE 85					
FEB 23, 72	1315	1	.3	12000	20.1	8.1	9.2	105	--	8
			1.8	11000	20.2	8.1	9.5	107	--	--
APR 18, 72	1520	1	.3	30000	26.0	8.0	7.3	100	--	29
			1.5	30000	26.0	8.0	7.7	105	--	--
			2.6	30000	26.1	8.0	7.4	101	--	--
JUN 13, 72	0840	1	.3	1100	--	8.1	--	--	--	38
			1.8	6000	--	8.1	--	--	--	--
AUG 22, 72	1000	1	.3	1100	29.9	--	8.0	105	--	41
			1.5	1200	29.6	--	8.0	104	--	--
			4.0	1400	29.6	--	8.0	104	--	--
SEP 22, 72	1040	1	.3	19000	28.9	8.1	7.4	101	--	61
			1.5	23000	29.0	8.0	6.5	90	--	--
			3.7	27000	29.1	7.9	4.2	60	--	--
JAN 16, 73	1252	1	.3	32000	13.8	8.2	11.8	128	--	137
			1.5	34000	13.8	8.2	11.7	129	--	--
			3.0	28000	13.2	8.1	10.9	115	--	--
APR 09, 73	1520	1	.3	5000	17.3	8.0	9.3	98	--	13
			1.5	6000	16.8	8.0	9.1	95	--	--
			2.7	6900	16.2	7.8	9.0	93	--	--
JUN 15, 73	0940	1	.3	140	23.6	--	5.0	58	--	5
			1.2	140	23.6	--	5.0	58	--	--
			2.7	140	23.6	--	5.0	58	--	--
JUN 18, 73	1030	1	.3	140	28.0	--	5.3	67	--	19
			1.2	140	28.0	--	5.4	68	--	--
			2.4	140	28.0	--	5.7	72	--	--
JUN 22, 73	0920	1	.3	420	25.8	--	4.6	56	--	28
			2.9	420	25.9	--	4.8	59	--	--
JUL 03, 73	0945	1	.3	1500	29.4	7.3	7.1	92	--	15
			1.5	1500	29.3	7.3	7.1	92	--	--
			2.4	1500	29.1	7.2	7.2	92	--	--
JUN 13, 72	0845	2	.3	7600	--	8.0	--	--	--	41
			1.5	8000	--	8.0	--	--	--	--
AUG 22, 72	1010	2	.3	1000	29.7	8.1	7.8	101	--	38

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

WATER YEARS 1972 AND 1973--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 85 CONTINUED						
AUG 22, 72	1010	2	1.5	1000	29.6	8.0	7.8	101	--	--
JAN 16, 73	1304	2	.3	25000	13.3	8.2	11.5	120	--	127
			1.2	28000	12.8	8.3	13.7	144	--	--
APR 09, 73	1530	2	.3	5800	16.7	8.1	10.0	104	--	14
			1.5	7200	15.8	7.8	9.1	93	--	--
JUN 15, 73	0930	2	.3	180	23.6	--	5.1	59	--	6
			1.8	180	23.6	--	5.2	60	--	--
JUN 18, 73	1020	2	.3	190	27.9	--	5.8	73	--	15
			1.5	200	27.9	--	6.1	77	--	--
FEB 23, 72	1245	3	.3	11000	20.6	8.0	9.7	110	--	--
			1.5	11000	20.5	8.0	9.9	112	--	--
APR 18, 72	1535	3	.3	22000	26.1	8.1	7.4	97	--	15
			1.8	22000	26.1	8.1	7.5	99	--	--
JUN 13, 72	0855	3	.3	9800	27.4	8.0	7.4	95	--	38
			1.5	10000	27.2	8.0	7.3	92	--	--
AUG 22, 72	1025	3	.3	6600	29.6	8.2	7.6	101	--	18
			1.5	6400	29.4	8.3	7.3	97	--	--
SEP 22, 72	1055	3	.3	19000	29.5	8.2	7.5	104	--	43
			1.5	20000	29.1	8.2	7.6	106	--	--
OCT 12, 72	1055	3	.3	16000	26.0	8.2	9.8	127	20	61
			1.2	17000	26.0	8.2	10.3	134	35	--
JAN 16, 73	1322	3	.3	29000	13.3	8.2	13.7	146	--	127
			1.2	28000	13.5	8.2	12.5	133	--	--
APR 09, 73	1535	3	.3	7200	16.8	8.2	10.2	106	--	--
			1.5	9200	16.0	8.0	9.3	96	--	--
JUN 15, 73	0908	3	.3	120	24.4	--	4.8	56	--	13
			1.8	180	24.4	--	5.0	59	--	--
JUN 18, 73	1010	3	.3	250	28.2	--	6.1	77	--	16
			1.5	250	28.2	--	6.3	80	--	--
JUN 22, 73	1010	3	.3	480	25.4	--	4.4	53	--	10
			1.5	500	25.4	--	4.7	57	--	--
APR 18, 72	1550	4	.3	22000	25.9	8.0	7.6	100	--	--
			.9	22000	26.0	8.1	8.4	111	--	--
JUN 13, 72	0905	4	.3	5300	27.5	8.1	7.0	90	--	30
			.9	5300	27.6	8.1	7.2	92	--	--
AUG 22, 72	1038	4	.3	580	30.0	8.3	7.4	97	--	28
			.9	580	29.9	8.4	7.5	99	--	--
JAN 16, 73	1335	4	.3	22000	14.6	8.2	12.3	129	--	61
			.6	22000	14.4	8.2	13.2	139	--	--
APR 09, 73	1550	4	.3	4400	17.2	7.7	8.6	90	--	25
			.8	4600	17.1	7.7	9.0	94	--	--
JUN 15, 73	0855	4	.3	90	24.3	--	4.7	55	--	16
			1.5	90	24.4	--	4.8	56	--	--
JUN 18, 73	0955	4	.3	340	28.8	--	6.6	85	--	20
			1.2	380	28.9	--	6.6	85	--	--
JUL 03, 73	0925	4	.3	1000	29.1	6.7	6.1	78	--	14

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

WATER YEARS 1972 AND 1973--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 85 CONTINUED						
JUL 03, 73	0925	4	1.2	990	29.1	6.6	6.0	77	--	--
				LINE 90						
JUN 22, 73	0925	1	.3	440	25.5	--	5.1	61	--	28
			1.2	440	25.6	--	5.4	65	--	--
JUL 03, 73	0955	2	.3	1000	29.5	7.0	6.9	90	--	14
			1.5	1100	29.5	7.0	7.0	91	--	--
			2.4	1000	29.4	7.0	7.1	92	--	--
FEB 23, 72	1225	3	.3	13000	20.4	8.2	11.6	133	--	10
			1.5	14000	20.3	8.2	11.4	131	--	--
			2.4	14000	20.5	8.2	11.4	131	--	--
APR 18, 72	1730	3	.5	34000	26.3	8.2	7.2	100	--	28
			1.5	34000	26.2	8.2	7.6	106	--	--
			3.2	34000	26.5	8.2	10.0	139	--	--
JUN 13, 72	0825	3	.3	9200	--	8.0	--	--	--	33
			1.5	9400	--	8.0	--	--	--	--
			3.4	9400	--	8.0	--	--	--	--
AUG 22, 72	0925	3	.3	13000	29.6	8.6	7.1	97	--	46
			1.5	15000	29.6	8.4	6.8	93	--	--
			2.7	15000	29.7	7.7	5.0	68	--	--
SEP 22, 72	1115	3	.3	21000	29.4	8.2	7.2	103	--	53
			1.5	29000	29.5	8.1	5.5	79	--	--
			3.0	29000	29.5	8.1	5.3	76	--	--
OCT 12, 72	1035	3	.3	20000	26.0	8.1	8.3	109	20	86
			1.5	24000	26.0	8.1	9.5	125	--	--
			2.7	31000	26.2	8.1	9.2	126	45	--
JAN 16, 73	1400	3	.3	32000	12.6	8.2	11.4	120	--	152
			1.5	32000	12.4	8.1	11.9	125	--	--
			2.6	32000	12.4	8.2	12.8	135	--	--
APR 09, 73	1610	3	.3	11000	17.1	8.3	10.3	110	--	19
			.9	11000	17.2	8.2	10.2	109	--	--
			1.5	16000	16.5	8.0	8.6	91	--	--
			2.7	20000	16.5	7.8	8.0	87	--	--
JUN 06, 73	0915	3	.3	12000	26.3	8.0	7.6	96	--	18
			1.5	12000	26.3	8.0	8.5	107	--	--
			2.4	13000	26.3	8.1	8.4	106	--	--
JUN 15, 73	0955	3	.3	180	23.7	--	4.8	56	--	5
			1.2	180	23.6	--	4.8	56	--	--
			2.7	180	23.6	--	5.0	58	--	--
JUN 18, 73	1045	3	.3	180	27.7	--	6.4	80	--	16
			1.5	180	27.7	--	6.5	81	--	--
			2.7	190	27.6	--	6.6	82	--	--
JUN 22, 73	0940	3	.3	380	25.4	--	5.2	63	--	25
			3.0	390	25.4	--	5.8	70	--	--
JUN 22, 73	0950	5	.3	390	25.1	--	5.2	62	--	18
			1.2	400	25.1	--	5.8	69	--	--
				LINE 102						
FEB 23, 72	1058	2	.3	21000	19.3	8.4	8.9	102	--	36
			1.5	21000	19.3	8.4	8.9	102	--	--
			3.0	21000	19.0	8.4	9.0	101	--	--

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

WATER YEARS 1972 AND 1973--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 102 CONTINUED					
FEB 23, 72	1058	2	6.1	21000	18.3	8.4	8.2	92	--	--
			7.6	35000	17.0	8.0	6.2	73	--	--
			9.8	40000	17.1	8.0	6.4	77	--	--
APR 18, 72	1145	2	.3	34000	25.9	8.3	9.3	129	--	81
			1.5	34000	25.7	8.3	8.8	121	--	--
			3.0	34000	25.6	8.2	8.4	115	--	--
			4.6	34000	25.6	8.2	8.0	110	--	--
			6.1	34000	25.6	8.2	7.6	104	--	--
			7.6	37000	26.2	8.2	6.7	93	--	--
			9.1	39000	25.9	8.1	4.7	66	--	--
			9.8	39000	26.1	8.1	5.1	72	--	--
JUN 13, 72	1333	2	.3	20000	28.0	8.2	10.3	141	28	71
			1.5	20000	27.9	8.2	10.1	138	30	--
			3.0	22000	27.6	8.2	9.6	130	30	--
			4.6	28000	27.1	7.8	5.3	73	32	--
			6.1	39000	26.9	7.7	4.2	60	69	--
			10.1	39000	26.9	7.6	5.1	73	28	--
AUG 22, 72	1650	2	.3	19000	32.0	8.3	10.8	154	8	69
			1.5	41000	31.0	8.3	9.1	142	10	--
			3.0	44000	30.0	7.8	3.1	49	0	--
			6.1	46000	30.0	7.8	3.5	56	0	--
			9.1	46000	30.3	7.8	2.7	43	12	--
					LINE 108					
MAR 27, 72	1235	2	.3	41000	26.0	8.3	7.0	100	--	109
			1.5	41000	25.3	8.3	6.7	94	--	--
			3.0	41000	25.2	8.3	6.2	86	--	--
			6.1	36000	24.9	8.3	5.4	73	--	--
			7.6	41000	24.9	8.2	5.0	69	--	--
			9.1	46000	24.4	8.0	.8	11	--	--
			12.2	46000	24.8	7.9	.0	0	--	--
					LINE 110					
FEB 23, 72	1238	2	.3	20000	20.0	7.4	2.2	26	--	33
			.9	20000	20.1	7.4	2.6	30	--	--
			1.5	20000	20.1	7.4	2.5	29	--	--
			2.1	20000	20.0	7.4	2.7	31	--	--
			3.0	20000	20.0	7.4	1.9	22	--	--
APR 18, 72	1040	2	.3	29000	26.4	7.6	.9	12	--	71
			.9	29000	26.1	7.7	.8	11	--	--
			1.5	29000	26.1	7.7	1.4	19	--	--
			3.0	29000	25.6	7.9	3.4	45	--	--
			3.7	29000	25.8	7.8	2.4	32	--	--
			4.6	31000	25.9	7.8	1.9	26	--	--
			5.2	29000	25.9	7.8	2.6	35	--	--
JUN 13, 72	0853	2	.3	14000	27.6	7.6	6.1	79	50	46
			1.5	15000	27.5	7.7	5.8	76	51	--
			3.0	15000	27.3	7.8	6.7	88	66	--
			3.7	15000	27.4	7.7	6.4	84	60	--
AUG 22, 72	1720	2	.3	23000	31.7	8.3	11.9	175	25	64
			1.5	31000	31.0	8.1	8.1	121	30	--
			3.0	35000	30.4	7.6	2.0	30	32	--
			4.9	35000	29.9	7.5	2.6	39	430	--
JAN 16, 73	0905	2	.3	32000	8.8	8.3	10.8	105	0	81
			1.5	34000	8.2	8.3	10.5	102	2	--
			3.0	35000	5.7	8.1	9.7	90	3	--
			4.0	34000	6.0	8.1	9.8	91	5	--
APR 11, 73	0730	2	.3	11000	15.8	8.0	7.9	81	30	53

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

WATER YEARS 1972 AND 1973--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					
APR 11, 73	0730	2	1.5	12000	15.7	8.1	7.8	80	40	--
			3.0	18000	15.8	7.9	6.6	70	40	--
			4.6	14000	16.2	7.9	6.5	68	--	--
JUN 06, 73	0730	2	.3	16000	26.1	7.5	1.4	18	40	43
			1.5	18000	26.6	7.8	2.1	28	48	--
			3.7	20000	26.6	7.9	2.8	37	60	--
					LINE 125					
FEB 23, 72	1308	2	.3	23000	20.6	8.0	9.6	114	--	10
			.6	23000	20.7	8.0	9.7	115	--	--
APR 18, 72	1106	2	.3	32000	25.9	8.2	10.6	145	--	53
			1.2	32000	25.9	8.2	10.7	147	--	--
JUN 13, 72	1416	2	.3	15000	28.0	8.2	12.8	171	70	41
			1.5	15000	28.0	8.2	15.0	200	78	--
AUG 23, 72	1000	2	.3	24000	29.4	8.1	6.5	92	--	58
			1.2	25000	29.7	8.1	6.3	90	--	--
JAN 17, 73	1220	2	.3	32000	16.7	8.2	9.1	103	--	53
APR 11, 73	1045	2	.3	12000	16.4	7.7	8.1	85	--	36
			.6	12000	16.4	7.7	8.4	88	--	--
JUN 06, 73	1040	2	.6	18000	26.2	8.1	6.9	90	--	30
					LINE 129					
FEB 23, 72	1315	2	.3	25000	19.9	8.2	10.0	119	--	23
			1.5	25000	19.9	8.2	9.9	118	--	--
			2.4	25000	20.4	8.2	9.6	116	--	--
APR 18, 72	1115	2	.3	32000	26.0	8.2	8.9	122	--	58
			1.5	32000	25.9	8.2	8.8	121	--	--
			2.1	32000	26.0	8.2	9.3	127	--	--
JUN 13, 72	1430	2	.3	16000	28.2	8.2	10.4	139	60	36
			1.5	16000	28.2	8.1	11.3	151	62	--
			3.0	16000	28.1	8.1	10.8	144	90	--
AUG 23, 72	0000	2	.3	24000	29.4	8.2	5.5	77	--	58
			1.5	24000	29.4	8.2	5.5	77	--	--
			2.4	24000	29.3	8.1	5.8	82	--	--
JAN 17, 73	1205	2	.3	32000	15.1	8.1	9.6	107	--	97
			1.5	32000	15.0	8.1	9.6	107	--	--
			2.4	35000	14.5	8.1	9.6	108	--	--
APR 11, 73	1030	2	.3	14000	16.2	7.8	8.5	89	--	41
			1.5	14000	16.2	7.8	8.3	87	--	--
			3.0	22000	16.5	7.7	7.2	79	--	--
JUN 06, 73	1010	2	.3	20000	26.1	8.1	6.4	84	--	28
			1.2	20000	25.9	8.0	6.0	79	--	--
			2.1	20000	25.9	8.0	6.2	82	--	--
					LINE 140					
APR 11, 73	1007	2	.3	22000	16.5	7.7	7.8	86	--	71
			.9	22000	16.5	7.6	8.0	88	--	--
JUN 06, 73	1230	2	.3	24000	28.4	8.0	7.5	103	--	--
			1.2	24000	27.8	7.9	6.8	93	--	--

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

WATER YEARS 1972 AND 1973--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 143					
FEB 23, 72	1425	1	.5	24000	20.4	8.2	9.5	113	--	23
			1.5	24000	20.4	8.2	9.1	108	--	--
APR 19, 72	0945	1	.5	37000	25.5	8.0	8.0	110	--	41
			1.8	38000	25.5	8.0	9.0	125	--	--
JUN 13, 72	1149	1	.3	20000	27.6	8.1	11.9	161	52	41
			1.8	20000	27.6	8.1	12.4	168	60	--
AUG 22, 72	1550	1	.3	26000	31.6	8.3	13.0	191	2	97
			1.5	24000	31.5	8.3	12.0	176	67	--
OCT 12, 72	0935	1	.3	33000	26.2	8.2	8.8	122	15	86
			1.2	29000	26.1	8.2	9.0	122	15	--
JAN 17, 73	1120	1	.3	36000	12.2	8.0	10.2	109	--	122
			1.2	36000	12.5	8.0	9.5	102	--	--
APR 11, 73	0943	1	.3	22000	16.2	7.7	8.5	92	--	70
			1.5	22000	16.2	7.7	8.9	97	--	--
JUN 06, 73	1220	1	.3	28000	28.2	8.1	7.8	110	--	56
			1.5	28000	27.8	8.0	7.8	110	--	--
FEB 23, 72	1418	2	.5	23000	20.6	8.1	9.3	111	--	8
			1.5	23000	20.6	8.1	10.0	119	--	--
APR 19, 72	0951	2	.5	37000	25.4	8.0	7.6	104	--	38
			1.8	37000	25.4	8.0	8.4	115	--	--
JUN 13, 72	1142	2	.5	20000	27.4	8.1	12.3	166	59	38
			1.5	20000	27.5	8.1	13.0	176	59	--
			2.1	20000	27.7	8.1	13.3	180	59	--
AUG 22, 72	1545	2	.3	22000	31.0	8.3	11.8	171	10	74
			1.5	20000	30.6	8.3	12.5	179	20	--
OCT 12, 72	0950	2	.3	31000	26.4	8.2	9.3	127	20	76
			2.1	33000	26.4	8.2	8.3	115	60	--
JAN 17, 73	1125	2	.3	38000	12.2	8.0	10.0	108	--	165
			1.5	39000	12.2	8.0	10.5	113	--	--
APR 11, 73	0946	2	.3	23000	16.4	7.7	8.2	90	--	62
			1.5	23000	16.4	7.7	8.4	92	--	--
JUN 06, 73	1205	2	.3	28000	28.6	8.1	7.9	113	--	51
			1.5	28000	27.7	8.1	7.8	108	--	--
FEB 23, 72	1408	3	.5	22000	20.5	8.2	9.5	113	--	10
			1.2	22000	20.5	8.2	10.6	126	--	--
APR 18, 72	1651	3	.5	37000	26.3	8.2	7.5	104	--	30
			1.5	37000	26.2	8.2	7.6	106	--	--
			2.3	37000	26.3	8.2	9.3	129	--	--
APR 19, 72	1000	3	.5	34000	25.5	8.0	7.4	101	--	41
			1.8	34000	25.6	8.0	8.8	121	--	--
JUN 13, 72	1130	3	.3	20000	27.4	8.1	12.6	170	69	36
			1.8	20000	27.6	8.1	13.3	180	75	--
AUG 22, 72	1535	3	.3	24000	31.8	8.3	11.7	172	20	74
			1.5	25000	31.5	8.2	11.8	174	15	--
OCT 12, 72	0955	3	.3	34000	26.4	8.2	8.0	111	15	81

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

WATER YEARS 1972 AND 1973--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 143 CONTINUED						
OCT 12, 72	0955	3	1.5	34000	26.4	8.2	8.4	117	30	--
JAN 17, 73	1130	3	.3	38000	12.5	8.0	10.3	112	--	155
			1.5	39000	12.3	8.1	11.2	122	--	--
APR 11, 73	0950	3	.3	22000	16.4	7.8	8.1	89	--	41
			1.5	39000	16.4	7.8	11.2	122	--	--
JUN 06, 73	1200	3	.3	24000	28.0	8.1	7.7	107	--	49
			1.4	14000	27.6	8.0	8.1	105	--	--
FEB 23, 72	1403	4	.5	21000	21.6	8.3	9.6	116	--	10
			1.2	21000	21.6	8.3	10.4	125	--	--
APR 19, 72	1010	4	.5	34000	25.8	8.0	7.6	106	--	18
			1.5	34000	25.8	8.0	8.4	117	--	--
JUN 13, 72	1122	4	.3	20000	27.5	8.1	11.8	159	71	36
			1.2	20000	27.6	8.1	12.8	173	65	--
AUG 22, 72	1525	4	.3	26000	34.4	8.2	10.7	165	25	69
			1.2	27000	33.8	8.2	11.3	174	15	--
OCT 12, 72	1007	4	.3	33000	26.4	8.3	7.8	108	20	74
			.9	33000	26.4	8.3	8.4	117	25	--
JAN 17, 73	1139	4	.3	32000	13.0	8.0	9.9	105	--	140
			1.2	34000	12.8	8.0	10.1	109	--	--
APR 11, 73	0957	4	.3	22000	16.4	7.8	8.1	89	--	46
			1.2	22000	16.5	7.8	8.6	94	--	--
JUN 06, 73	1145	4	.6	24000	31.6	8.0	7.5	110	--	33
					LINE 150					
FEB 23, 72	1027	1	.5	26000	19.6	8.4	9.5	112	--	36
			1.2	24000	19.8	8.4	9.9	116	--	--
APR 19, 72	0932	1	.5	38000	25.4	8.0	7.5	104	--	30
			1.7	37000	25.5	8.0	8.6	118	--	--
JUN 13, 72	1156	1	.5	20000	27.6	8.1	11.4	154	62	46
			1.5	20000	27.7	8.1	13.2	178	60	--
AUG 22, 72	1555	1	.3	24000	31.5	8.3	12.4	182	12	97
			1.5	24000	31.5	8.3	12.6	185	22	--
SEP 22, 72	0850	1	.3	36000	27.7	8.1	9.2	131	18	--
			1.5	38000	28.0	8.1	10.3	151	20	--
OCT 12, 72	0930	1	.3	33000	26.1	8.2	9.3	129	50	91
			1.2	33000	26.0	8.2	8.8	122	25	--
JAN 17, 73	1010	1	.3	30000	10.5	8.0	11.7	118	--	99
			1.5	30000	10.8	8.0	11.2	114	--	--
JUN 06, 73	1348	1	.3	27000	29.4	8.0	8.5	121	--	53
			1.8	27000	27.9	8.0	7.2	101	--	--
FEB 23, 72	1032	2	.5	24000	19.5	8.4	9.0	105	--	28
			1.5	24000	19.7	8.4	9.5	110	--	--
APR 19, 72	0928	2	.5	37000	25.4	8.0	7.3	100	--	36
			1.5	37000	25.3	8.0	7.6	104	--	--
			2.3	37000	25.3	8.0	8.0	110	--	--
JUN 13, 72	1202	2	.5	23000	27.5	8.1	11.5	155	79	36

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

WATER YEARS 1972 AND 1973--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 13, 72	1202	2	1.5	22000	27.5	8.1	12.4	168	81	--
			2.4	22000	27.5	8.1	12.0	162	95	--
AUG 22, 72	1605	2	.3	26000	31.4	8.3	12.2	177	--	97
			1.8	27000	30.7	8.3	12.9	190	55	--
SEP 22, 72	0845	2	.3	36000	27.3	8.1	5.1	73	22	--
			1.8	36000	27.1	8.0	5.0	70	35	--
OCT 12, 72	0920	2	.3	33000	25.8	8.2	9.0	125	40	46
			1.8	33000	25.8	8.2	8.8	122	--	--
JAN 17, 73	0952	2	.3	37000	10.1	8.0	12.4	128	--	97
			1.5	38000	10.2	8.0	12.0	125	--	--
APR 11, 73	0831	2	.3	20000	15.7	7.7	9.2	98	--	62
			1.5	20000	15.6	7.7	9.4	100	--	--
JUN 06, 73	1355	2	.3	14000	29.2	8.1	9.2	122	--	51
			1.4	26000	28.0	8.0	8.5	118	--	--
FEB 23, 72	1036	3	.5	23000	19.2	8.4	9.4	107	--	28
			1.8	23000	19.3	8.4	9.2	106	--	--
APR 19, 72	0920	3	.5	37000	25.5	8.0	7.4	101	--	41
			1.7	36000	25.6	8.0	6.0	110	--	--
JUN 13, 72	1213	3	.5	23000	27.7	8.1	12.7	172	70	--
			1.8	22000	27.7	8.1	12.8	173	70	--
AUG 22, 72	1612	3	.3	27000	31.0	8.3	13.5	199	18	84
			1.8	27000	30.8	8.2	10.5	154	30	--
SEP 22, 72	0840	3	.3	35000	26.9	8.1	5.4	76	20	--
			1.8	38000	27.3	8.0	4.5	65	120	--
OCT 12, 72	0915	3	.3	29000	25.6	8.2	9.7	129	40	61
			1.2	28000	25.4	8.1	9.0	120	30	--
JAN 17, 73	0945	3	.3	37000	10.1	8.0	12.4	128	--	91
			1.5	38000	10.3	8.0	13.0	135	--	--
APR 11, 73	0825	3	.3	18000	15.8	7.7	9.5	101	--	65
			1.2	19000	15.9	7.6	9.4	100	--	--
JUN 06, 73	1406	3	.3	23000	29.4	8.1	9.8	138	--	53
			.9	24000	28.6	8.1	9.7	135	--	--
			1.8	24000	27.6	8.0	7.7	104	--	--
FEB 23, 72	1338	4	.5	23000	19.3	8.2	9.1	106	--	20
			1.5	26000	19.3	8.3	9.3	109	--	--
			3.0	27000	19.1	8.2	8.7	102	--	--
			6.1	37000	18.2	8.1	8.1	97	--	--
			10.1	37000	17.9	8.0	9.1	110	--	--
APR 18, 72	1625	4	.5	39000	26.0	8.2	6.3	89	--	33
			1.5	39000	26.0	8.2	6.3	89	--	--
			3.0	39000	26.0	8.2	6.3	89	--	--
			6.1	39000	25.7	8.2	6.2	86	--	--
			9.1	39000	25.5	8.2	6.3	88	--	--
			11.3	39000	25.7	8.1	6.3	88	--	--
APR 19, 72	0906	4	.5	34000	25.5	8.0	6.4	88	--	61
			1.5	34000	25.4	8.0	6.4	88	--	--
			3.0	34000	25.4	8.0	6.8	93	--	--
			6.1	34000	25.4	8.0	6.8	93	--	--
			9.1	34000	25.4	8.0	6.9	95	--	--
			10.7	34000	25.4	7.9	7.6	104	--	--
JUN 13, 72	1220	4	.5	24000	27.8	8.1	9.4	129	55	36

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

WATER YEARS 1972 AND 1973--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 150 CONTINUED					
JUN 13, 72	1220	4	1.5	25000	27.5	8.1	9.7	133	50	--
			3.0	27000	27.3	8.1	9.0	125	52	--
			4.6	34000	27.2	8.1	8.0	111	55	--
			6.1	42000	27.1	8.0	7.1	104	55	--
			7.6	45000	27.2	8.0	6.8	101	66	--
			9.1	46000	27.2	8.0	7.1	106	80	--
			10.7	45000	27.1	8.0	9.2	137	105	--
AUG 22, 72	1625	4	.3	26000	31.4	8.3	12.0	174	15	86
			1.5	38000	30.6	8.2	11.0	169	10	--
			3.0	44000	30.4	8.2	8.3	132	2	--
			6.1	52000	30.3	8.1	7.4	121	0	--
			9.1	52000	30.4	8.1	5.3	87	0	--
			11.0	52000	30.7	8.1	6.0	100	2	--
SEP 22, 72	0810	4	.3	35000	27.0	8.0	4.3	61	17	--
			3.0	44000	27.0	8.0	4.0	60	95	--
			6.1	48000	27.3	8.0	3.1	46	32	--
			9.1	48000	27.6	8.0	3.1	47	70	--
			10.7	49000	27.6	8.0	3.0	46	145	--
SEP 22, 72	0915	4	.3	35000	26.8	8.1	10.1	142	15	--
			10.7	48000	27.1	8.0	6.8	101	50	--
OCT 12, 72	0900	4	.3	31000	22.6	8.3	7.1	91	20	89
			1.5	32000	22.7	8.3	6.5	83	30	--
			3.0	33000	22.8	8.3	6.4	83	40	--
			6.1	37000	22.9	8.2	5.0	66	50	--
			9.1	37000	23.0	8.2	4.9	64	30	--
			12.2	39000	22.8	8.2	6.9	92	45	--
JAN 16, 73	0935	4	.3	38000	7.1	8.3	12.4	119	0	147
			1.5	38000	6.7	8.2	12.3	117	0	--
			3.0	38000	6.6	8.2	12.0	114	8	--
			4.6	38000	6.5	8.2	11.9	113	8	--
			6.1	38000	6.3	8.2	10.5	108	15	--
			9.1	38000	6.2	8.2	10.6	104	30	--
			11.3	40000	6.3	8.1	10.4	104	40	--
JUN 06, 73	1425	4	.3	20000	29.3	8.0	8.5	118	--	46
			1.5	24000	27.5	7.9	6.7	91	--	--
			3.0	30000	27.5	7.9	6.1	86	--	--
			4.6	35000	27.6	7.9	5.4	77	--	--
			6.1	42000	27.9	7.8	4.8	72	--	--
			9.1	43000	27.9	7.8	4.3	64	--	--
			11.0	43000	27.9	7.8	4.3	64	--	--
					LINE 169					
JAN 17, 73	1100	2	.3	32000	14.4	7.9	9.3	102	--	61
			.6	36000	14.2	7.9	9.1	101	--	--
APR 11, 73	0924	2	.3	25000	16.1	7.6	6.0	68	--	58
			.6	25000	16.1	7.6	6.2	90	--	--
JUN 06, 73	1334	2	.3	22000	29.1	8.1	8.0	111	--	56
			.9	22000	28.4	8.1	8.2	112	--	--
					LINE 175					
FEB 23, 72	1450	1	.3	27000	20.7	8.2	10.4	127	--	58
			1.2	27000	20.7	8.2	10.8	132	--	--
FEB 23, 72	1512	1	.3	27000	20.5	8.2	11.5	140	--	51
			1.5	27000	20.7	8.2	13.0	159	--	--
APR 19, 72	1050	1	.3	37000	25.8	8.1	6.5	118	--	94

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

WATER YEARS 1972 AND 1973--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					
APR 19, 72	1050	1	1.8	37000	25.9	8.2	9.6	133	--	--
JUN 13, 72	1028	1	.3	21000	27.9	8.2	10.6	145	40	38
			1.5	21000	28.1	8.2	12.2	167	48	--
AUG 22, 72	1445	1	.3	30000	31.2	8.4	10.8	161	2	97
			1.2	30000	31.4	8.4	11.0	164	10	--
JAN 17, 73	1035	1	.3	38000	11.5	7.9	10.4	111	--	122
			1.2	37000	11.5	7.9	10.2	107	--	--
APR 11, 73	0903	1	.3	26000	16.0	7.7	8.5	93	--	94
			1.2	26000	16.0	7.7	8.7	96	--	--
JUN 06, 73	1312	1	.3	22000	28.7	8.1	8.2	114	--	56
			1.2	24000	27.6	8.1	8.1	109	--	--
FEB 23, 72	1502	2	.3	27000	20.6	8.2	12.0	146	--	46
			1.2	28000	20.8	8.2	11.5	142	--	--
APR 19, 72	1056	2	.3	37000	25.7	8.1	8.2	112	--	61
			1.8	37000	25.7	8.1	9.0	123	--	--
APR 19, 72	1105	2	.3	37000	25.7	8.0	8.0	110	--	58
			1.8	37000	25.7	8.1	9.1	125	--	--
JUN 13, 72	1038	2	.3	22000	26.8	8.2	10.8	144	42	46
			1.5	21000	26.7	8.2	10.9	145	41	--
AUG 22, 72	1450	2	.3	30000	30.8	8.3	10.4	155	10	104
			1.5	30000	30.7	8.3	9.6	143	10	--
JAN 17, 73	1043	2	.3	38000	12.2	7.9	10.1	109	--	122
			1.2	38000	12.0	7.9	9.8	105	--	--
APR 11, 73	0909	2	.3	26000	16.1	7.7	8.6	95	--	86
			1.5	26000	16.1	7.7	8.9	98	--	--
JUN 06, 73	1319	2	.3	22000	29.0	8.1	8.6	119	--	53
			1.2	24000	27.5	8.1	7.5	101	--	--
JUN 13, 72	1045	3	.3	21000	26.8	8.2	11.2	149	--	56
			1.5	21000	26.8	8.2	11.6	155	41	--
AUG 22, 72	1455	3	.3	28000	30.5	8.4	10.4	153	5	71
			1.5	30000	31.0	8.3	9.8	146	18	--
JAN 17, 73	1050	3	.3	32000	12.8	7.9	9.9	105	--	122
			1.2	32000	12.7	7.9	12.2	128	--	--
APR 11, 73	0915	3	.3	26000	16.1	7.7	8.2	90	--	42
			1.2	26000	16.1	7.7	8.4	92	--	--
JUN 06, 73	1326	3	.3	21000	28.7	8.1	8.0	111	--	58
			1.2	22000	28.0	8.1	8.1	111	--	--
					LINE 180					
FEB 23, 72	1440	2	.5	27000	20.6	8.2	10.3	126	--	36
			1.5	26000	20.6	8.2	11.4	137	--	--
APR 19, 72	1032	2	.3	37000	25.6	8.1	8.0	110	--	69
			1.8	37000	25.6	8.1	9.3	127	--	--
JUN 13, 72	1054	2	.3	22000	27.0	8.2	11.0	147	70	46
			1.5	22000	27.0	8.2	12.5	167	55	--
AUG 22, 72	1430	2	.3	31000	30.9	8.3	10.6	158	5	97

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

WATER YEARS 1972 AND 1973--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 180 CONTINUED					
AUG 22, 72	1430	2	1.5	33000	30.5	8.4	11.2	170	12	--
JAN 17, 73	1021	2	.3	38000	11.4	7.9	11.0	117	--	127
			1.2	38000	11.1	8.0	10.9	114	--	--
APR 11, 73	0850	2	.3	26000	16.1	7.7	8.5	93	--	72
			1.5	26000	16.0	7.7	8.6	95	--	--
JUN 06, 73	1255	2	.3	27000	28.8	8.1	7.9	113	--	48
			1.5	28000	28.2	8.1	8.1	114	--	--
					LINE 190					
JAN 15, 73	1635	2	.3	37000	7.8	8.4	11.5	112	30	25
			.9	38000	7.4	8.3	10.4	101	39	--
			1.5	37000	7.8	8.4	11.5	112	30	--
			3.0	37000	7.7	8.4	11.3	110	30	--
			4.6	37000	7.6	8.3	11.1	108	35	--
			6.1	38000	7.4	8.3	10.8	105	35	--
			9.1	38000	7.4	8.3	10.4	101	95	--
			11.9	38000	7.3	8.3	10.2	99	130	--
JUN 05, 73	1840	2	.3	27000	28.9	8.5	8.2	117	40	46
			1.5	28000	28.8	8.5	7.6	109	60	--
FEB 23, 72	1000	4	.5	28000	18.8	8.3	8.0	94	--	36
			1.5	28000	18.7	8.3	9.3	109	--	--
			3.0	28000	18.6	8.3	9.5	112	--	--
			6.1	32000	18.1	8.2	8.1	95	--	--
			10.7	40000	17.7	8.1	7.4	90	--	--
APR 19, 72	1129	4	.5	38000	25.8	8.0	5.9	83	--	30
			1.5	38000	25.7	8.0	5.7	79	--	--
			3.0	39000	25.6	8.0	5.9	82	--	--
			4.6	39000	25.6	8.0	6.3	88	--	--
			6.1	39000	25.6	8.0	6.9	96	--	--
			7.6	39000	25.7	8.0	6.7	93	--	--
			9.1	39000	25.6	8.0	6.9	96	--	--
			10.7	43000	25.6	8.0	6.9	99	--	--
			11.6	43000	25.6	8.0	7.3	104	--	--
JUN 12, 72	1730	4	.5	26000	28.0	8.2	9.1	126	35	69
			1.5	26000	27.9	8.3	9.9	138	32	--
			3.0	34000	27.4	8.2	8.8	126	32	--
			4.6	40000	27.3	8.2	8.2	119	39	--
			6.1	47000	27.4	8.2	10.3	154	--	--
			10.4	44000	27.6	8.2	13.4	203	27	--
JUN 13, 72	0934	4	.5	26000	27.1	8.0	11.3	153	70	20
			1.5	26000	27.0	8.0	9.8	132	68	--
			3.0	26000	27.0	8.0	10.2	138	70	--
			4.6	26000	27.0	8.0	9.3	126	60	--
			6.1	26000	27.0	8.0	9.3	126	55	--
			9.8	39000	27.1	7.9	7.2	103	70	--
JUN 14, 72	0853	4	.3	25000	26.9	8.0	6.7	90	75	41
			1.5	25000	26.9	8.0	6.0	81	71	--
			3.0	26000	26.9	8.0	6.0	81	71	--
			6.1	28000	26.9	8.0	6.0	82	--	--
			9.1	35000	27.0	7.9	5.4	76	61	--
			12.2	42000	26.8	7.8	5.5	81	91	--
AUG 21, 72	1605	4	.3	35000	30.5	8.4	12.7	192	--	97
			1.5	49000	30.3	8.4	11.6	187	0	--
			3.0	52000	29.7	8.3	10.5	169	5	--
			6.1	50000	29.7	8.3	10.2	165	10	--
			9.1	50000	29.8	8.2	10.6	171	130	--
			12.2	50000	30.0	8.2	10.8	174	90	--

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

WATER YEARS 1972 AND 1973--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 190 CONTINUED						
AUG 22, 72	0845	4	.3	33000	29.5	8.2	6.0	88	20	69
			1.5	35000	29.8	8.2	5.5	83	15	--
			3.0	35000	29.8	8.2	5.1	77	25	--
			6.1	49000	29.8	8.1	4.2	68	20	--
			9.1	46000	29.6	8.1	4.5	71	20	--
			11.6	45000	29.5	8.0	5.6	88	95	--
AUG 22, 72	1405	4	.3	34000	31.0	8.3	10.8	164	10	109
			1.5	34000	30.7	8.3	9.1	138	15	--
			3.0	41000	30.5	8.2	7.2	112	18	--
			6.1	50000	30.5	8.2	6.6	106	48	--
			9.1	50000	30.6	8.2	7.0	115	25	--
			11.9	50000	30.9	8.2	7.3	120	33	--
SEP 22, 72	0930	4	.3	39000	28.3	8.1	9.9	146	20	--
			3.0	44000	28.4	8.1	8.6	132	30	--
			6.1	49000	28.5	8.1	8.3	130	50	--
			9.1	49000	28.4	8.0	8.0	125	50	--
			11.0	49000	28.1	8.0	8.2	114	50	--
OCT 11, 72	1650	4	.3	38000	24.8	8.3	12.1	166	15	71
			1.5	38000	24.8	8.3	11.3	155	15	--
			3.0	38000	24.7	8.2	10.1	138	15	--
			6.1	44000	24.7	8.2	8.6	123	25	--
			9.1	44000	24.8	8.2	8.2	117	40	--
			10.7	44000	24.8	8.2	11.0	157	75	--
OCT 12, 72	0930	4	.3	39000	23.3	8.3	6.9	92	15	86
			1.5	39000	23.3	8.3	6.2	83	15	--
			3.0	40000	23.3	8.3	5.9	80	15	--
			6.1	43000	23.6	8.3	5.3	74	25	--
			9.1	44000	23.7	8.2	5.7	79	25	--
			11.6	44000	23.7	8.2	7.1	99	40	--
JAN 16, 73	0955	4	.3	38000	7.2	8.3	12.4	120	9	66
			1.5	38000	7.0	8.3	12.0	115	9	--
			3.0	38000	6.9	8.2	12.2	117	10	--
			4.6	38000	6.9	8.3	12.2	117	7	--
			6.1	38000	6.9	8.3	12.0	115	7	--
			9.1	38000	6.9	8.3	12.0	115	9	--
			11.6	40000	6.9	8.2	11.1	109	20	--
APR 10, 73	1430	4	.3	23000	15.8	8.1	10.1	110	45	76
			1.5	24000	15.2	8.1	9.8	105	50	--
			3.0	25000	15.3	8.1	9.9	108	50	--
			6.1	26000	15.4	8.0	9.8	107	50	--
			9.1	36000	15.9	8.0	8.4	97	70	--
			12.2	39000	16.1	8.0	8.3	97	170	--
APR 11, 73	0810	4	.3	20000	15.8	8.1	9.1	98	20	84
			1.5	22000	15.9	8.1	9.1	98	20	--
			3.0	23000	16.1	8.1	8.4	91	25	--
			6.1	28000	16.6	8.1	7.3	82	25	--
			9.1	36000	16.8	8.1	6.6	78	20	--
			12.2	37000	16.7	8.1	6.8	79	25	--
JUN 05, 73	1815	4	.3	28000	29.0	8.5	8.2	117	30	56
			1.5	28000	28.9	8.5	8.3	119	30	--
			3.0	34000	28.4	8.4	8.1	117	40	--
			5.5	42000	28.5	8.4	5.5	83	30	--
			8.5	42000	28.5	8.4	5.4	82	35	--
			11.6	26000	28.5	8.3	5.9	82	40	--
				LINE 200						
FEB 24, 72	1110	2	.5	40000	19.2	8.1	8.5	106	--	104
			1.5	40000	19.1	8.1	9.3	116	--	--
			3.0	40000	19.1	8.1	9.6	120	--	--

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

WATER YEARS 1972 AND 1973--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 200 CONTINUED					
FEB 24, 72	1110	2	6.1	41000	18.8	8.1	10.0	125	--	--
			9.1	46000	17.8	8.1	11.8	148	--	--
			10.7	44000	17.9	8.1	13.5	169	--	--
JUN 14, 72	1038	2	.5	40000	27.5	8.2	8.0	114	20	89
			1.5	40000	27.5	8.2	7.8	111	20	--
			3.0	42000	27.5	8.2	7.0	100	25	--
			6.1	48000	27.5	8.2	6.6	97	25	--
			9.1	49000	27.4	8.2	6.7	98	55	--
			12.2	47000	27.4	8.1	6.6	96	500	--
AUG 22, 72	1320	2	.3	34000	31.0	8.3	10.7	162	13	104
			1.5	50000	30.7	8.3	9.4	154	20	--
			3.0	50000	30.4	8.2	7.2	116	32	--
			6.1	50000	30.3	8.2	8.8	142	18	--
			9.1	50000	30.5	8.2	8.9	144	35	--
			11.9	50000	30.8	8.2	6.2	134	95	--
OCT 12, 72	0945	2	.3	42000	24.2	8.3	6.8	94	15	86
			1.5	42000	24.2	8.3	6.0	83	20	--
			3.0	42000	24.3	8.3	5.5	76	30	--
			6.1	44000	24.5	8.3	6.0	84	15	--
			9.1	44000	24.6	8.3	6.8	97	20	--
			11.6	44000	24.5	8.3	8.2	116	30	--
JAN 16, 73	1055	2	.3	38000	8.0	8.2	11.7	116	5	81
			1.5	38000	7.7	8.2	11.5	113	10	--
			3.0	38000	7.5	8.1	11.4	112	20	--
			4.6	38000	7.5	8.1	11.7	115	23	--
			6.1	38000	7.2	8.1	11.6	113	30	--
			9.1	38000	6.9	8.1	11.4	110	31	--
			11.6	40000	6.7	8.1	7.0	68	32	--
APR 11, 73	0915	2	.6	30000	16.0	8.1	9.7	109	10	122
			1.5	30000	16.4	8.1	9.1	103	10	--
			3.0	36000	16.8	8.1	8.6	101	15	--
			6.1	40000	17.1	8.1	8.8	106	10	--
			9.1	40000	17.2	8.1	8.1	98	10	--
			12.2	40000	17.2	8.1	7.8	94	15	--
JUN 06, 73	1510	2	.3	30000	29.0	8.1	8.5	123	--	66
			1.5	35000	28.6	8.0	7.4	109	--	--
			3.0	40000	27.8	8.0	6.6	97	--	--
			4.6	42000	27.6	7.9	5.8	87	--	--
			6.1	42000	27.6	7.9	5.7	85	--	--
			9.1	46000	27.8	7.9	5.5	83	--	--
			12.2	48000	27.8	7.9	5.7	86	--	--
FEB 24, 72	1100	5	.6	38000	20.1	8.3	10.9	138	--	61
JUN 14, 72	1028	5	.3	43000	27.5	8.2	7.0	103	18	89
			1.5	43000	27.5	8.2	7.0	103	20	--
			2.1	42000	27.6	8.2	7.1	106	30	--
AUG 22, 72	1335	5	.3	35000	31.4	8.3	9.1	140	5	--
			1.5	44000	29.9	8.2	8.5	135	12	--
			2.1	44000	31.1	8.1	6.7	108	29	--
OCT 12, 72	1000	5	.3	41000	24.3	8.3	8.2	112	20	91
			1.5	41000	24.3	8.3	8.5	116	20	--
			3.0	41000	24.4	8.3	9.1	125	30	--
JAN 16, 73	1110	5	.3	38000	8.3	8.2	12.4	123	6	97
			1.5	37000	8.0	8.2	12.8	125	8	--
			2.1	36000	7.9	8.2	12.1	119	5	--
APR 11, 73	0935	5	.6	29000	16.1	8.1	8.9	99	15	122
			1.2	29000	16.1	8.1	9.0	100	10	--
			2.4	30000	16.1	8.1	9.3	104	15	--

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

WATER YEARS 1972 AND 1973--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 200 CONTINUED					
JUN 06, 73	1524	5	.3	30000	29.8	8.1	8.7	128	--	76
			1.5	34000	27.5	8.0	6.3	128	--	--
			2.7	42000	28.0	7.8	4.9	66	--	--
					LINE 210					
FEB 24, 72	1130	2	.5	36000	19.2	8.1	9.4	115	--	140
			1.5	36000	19.1	8.1	10.0	122	--	--
			3.0	36000	19.1	8.1	10.5	128	--	--
			6.1	42000	18.8	8.1	11.4	142	--	--
			10.1	44000	18.3	8.1	13.3	166	--	--
JUN 14, 72	1107	2	.5	50000	27.5	8.2	8.6	130	50	74
			1.5	50000	27.4	8.2	9.0	136	40	--
			3.0	50000	27.4	8.2	9.0	136	50	--
			6.1	50000	27.5	8.2	9.0	136	50	--
			9.1	49000	27.7	8.2	8.5	131	70	--
AUG 22, 72	1250	2	.3	45000	31.0	8.3	10.3	166	20	119
			1.5	48000	30.6	8.3	11.1	182	28	--
			3.0	53000	30.4	8.3	11.0	180	30	--
			6.1	53000	30.4	8.2	10.9	179	5	--
			9.1	53000	30.5	8.2	10.1	168	21	--
			11.6	50000	31.0	8.2	10.3	169	22	--
OCT 12, 72	1015	2	.3	46000	24.7	8.4	8.2	117	15	104
			1.5	46000	24.7	8.4	7.6	108	10	--
			3.0	46000	24.6	8.4	8.0	114	10	--
			6.1	46000	24.6	8.4	8.2	117	10	--
			9.1	46000	24.5	8.4	8.4	118	10	--
			11.6	46000	24.5	8.4	11.2	158	20	--
JAN 16, 73	1135	2	.3	39000	8.0	8.1	11.9	118	8	89
			1.5	39000	7.6	8.1	11.8	116	10	--
			3.0	39000	7.3	8.1	11.9	116	12	--
			4.6	39000	7.2	8.1	12.4	120	15	--
			6.1	38000	7.1	8.1	12.0	115	15	--
			9.1	38000	7.0	8.1	11.8	113	15	--
			11.3	40000	7.2	8.1	11.9	117	44	--
APR 11, 73	0950	2	.6	36000	16.8	8.2	9.6	113	10	135
			1.5	36000	16.8	8.2	9.6	113	15	--
			3.0	36000	17.0	8.2	9.4	111	15	--
			6.1	40000	17.4	8.1	6.9	107	10	--
			9.1	40000	17.5	8.1	9.0	110	15	--
			11.3	40000	17.6	8.1	8.6	105	20	--
JUN 06, 73	1540	2	.3	43000	29.5	8.0	6.9	108	--	86
			1.5	44000	28.1	8.0	6.7	102	--	--
			3.0	46000	28.0	8.0	6.7	102	--	--
			4.6	46000	27.8	8.0	6.4	97	--	--
			6.1	48000	27.7	7.9	6.1	92	--	--
			9.1	48000	27.6	7.9	6.0	91	--	--
			11.6	48000	27.6	7.9	6.4	97	--	--
					LINE 224					
FEB 23, 72	0830	2	.6	6500	19.3	8.4	8.8	97	--	30
JUN 13, 72	1400	2	.3	4300	29.0	8.2	7.8	101	--	36
			1.2	4300	29.0	8.2	7.8	101	--	--
AUG 23, 72	0930	2	.3	410	28.3	8.2	7.0	89	--	33
			.9	410	27.7	8.3	7.4	92	--	--
OCT 11, 72	1800	2	.3	11000	27.6	8.5	9.1	117	45	41
			.9	11000	27.6	8.5	9.2	118	110	--

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

WATER YEARS 1972 AND 1973--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 224 CONTINUED					
JUN 05, 73	1445	2	.3	5400	29.9	8.7	8.1	109	--	29
			.9	5200	29.8	8.8	8.3	112	--	--
JUN 15, 73	1410	2	.3	180	27.9	--	5.4	68	--	14
			1.2	180	28.1	--	5.4	68	--	--
					LINE 235					
FEB 23, 72	0920	2	.3	26000	19.7	8.2	8.6	101	--	36
			1.2	26000	19.7	8.2	8.4	99	--	--
JUN 13, 72	1420	2	.3	16000	28.7	8.0	7.2	97	--	38
			.9	16000	28.7	7.9	7.4	100	--	--
AUG 23, 72	1000	2	.3	18000	28.4	8.2	8.1	109	--	53
			1.5	17000	28.1	8.5	8.5	115	--	--
JUN 05, 73	1510	2	.3	15000	29.2	8.3	7.2	97	--	24
			1.5	16000	29.1	8.7	7.6	103	--	--
JUN 15, 73	1440	2	.3	300	27.5	--	8.4	105	--	10
			1.8	300	27.4	--	8.4	105	--	--
					LINE 249					
FEB 23, 72	0906	2	.3	34000	19.4	8.1	8.7	106	--	89
			1.5	34000	19.6	8.0	9.1	111	--	--
JUN 12, 72	1640	2	.5	31000	28.6	8.4	13.3	193	31	71
			1.5	32000	28.4	8.4	14.2	203	20	--
			2.4	32000	28.4	8.4	14.3	204	38	--
AUG 21, 72	1520	2	.3	33000	30.5	8.4	11.6	176	0	107
			1.5	34000	30.4	8.4	12.5	187	15	--
			2.1	33000	30.3	8.4	12.5	187	5	--
OCT 11, 72	1400	2	.3	41000	24.7	8.3	10.4	144	30	56
			1.8	40000	24.7	8.3	11.2	156	40	--
JAN 15, 73	1555	2	.3	38000	9.4	8.4	10.9	111	10	97
			1.5	42000	9.4	8.4	10.5	109	12	--
APR 10, 73	1345	2	.3	32000	16.2	8.0	9.7	109	70	36
			1.5	32000	16.4	8.0	9.4	107	75	--
JUN 05, 73	1705	2	.6	26000	30.4	8.6	7.9	113	30	56
			1.8	26000	30.4	8.6	7.4	106	35	--
					LINE 254					
FEB 22, 72	1645	2	.3	3400	20.7	8.2	9.6	107	--	23
			1.5	3600	20.5	8.2	9.3	103	--	--
			3.4	4000	20.6	8.2	8.3	92	--	--
APR 17, 72	1830	2	.3	6100	24.5	8.6	8.7	106	--	51
			1.5	8000	24.4	8.4	6.4	77	--	--
			3.4	11000	24.0	8.1	3.4	41	--	--
JUN 12, 72	1215	2	.3	350	28.5	7.3	5.4	69	--	13
			1.5	350	27.7	7.2	4.8	60	--	--
			3.4	340	27.6	7.1	4.8	60	--	--
AUG 23, 72	1700	2	.3	930	31.4	7.8	8.6	115	--	41
			1.5	930	30.7	8.0	7.8	104	--	--
			3.0	930	30.5	8.1	6.2	82	--	--
OCT 11, 72	1600	2	.3	10000	28.2	8.1	11.2	145	--	76

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

WATER YEARS 1972 AND 1973--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 254 CONTINUED					
OCT 11, 72	1600	2	.9	11000	28.1	8.0	10.8	140	--	--
			1.8	15000	27.8	7.5	4.8	64	32	--
JAN 16, 73	1552	2	.3	3500	15.5	7.8	9.5	95	--	30
			1.5	14000	14.6	7.9	9.5	96	--	--
			3.4	15000	14.7	7.9	9.4	96	--	--
APR 10, 73	1607	2	.3	480	17.7	7.6	7.9	82	--	15
			1.5	500	17.0	7.6	7.8	80	--	--
			3.0	530	17.0	7.7	7.8	80	--	--
JUN 05, 73	1215	2	.3	2200	28.8	7.8	7.6	99	--	--
			1.5	2400	28.2	7.7	6.7	86	--	--
			3.4	2500	28.4	7.9	6.1	78	--	--
JUN 15, 73	1555	2	.3	160	26.5	--	6.4	78	--	10
			1.5	160	26.5	--	6.5	79	--	--
			3.7	160	26.6	--	6.6	81	--	--
JUN 18, 73	1540	2	.3	190	30.9	--	4.6	61	--	36
			1.5	190	30.4	--	4.2	55	--	--
			3.7	190	30.3	--	4.0	53	--	--
JUN 22, 73	1755	2	.3	160	25.8	7.3	5.0	61	--	5
			1.5	170	25.5	7.3	5.0	60	--	--
			3.7	170	25.6	7.3	5.6	67	--	--
					LINE 255					
JUN 12, 72	1235	2	.3	1100	28.5	7.9	8.4	108	--	28
			1.5	1200	28.3	7.9	7.8	99	--	--
			2.4	1300	28.2	7.7	6.5	82	--	--
AUG 23, 72	1715	2	.3	1800	28.7	7.9	8.6	110	--	33
			2.1	3700	30.0	8.1	6.4	85	--	--
JAN 16, 73	1607	2	.3	10000	17.1	8.5	12.4	132	--	46
			1.5	15000	17.0	8.5	11.6	125	--	--
			2.6	20000	16.5	8.2	10.7	116	--	--
APR 10, 73	1620	2	.3	2000	20.4	7.6	8.6	96	--	9
			1.5	2300	19.6	7.6	8.9	97	--	--
			2.4	2400	19.3	7.6	9.3	101	--	--
JUN 05, 73	1232	2	.3	7000	28.6	8.0	7.0	92	--	28
			1.2	7500	28.4	8.1	6.9	90	--	--
			2.1	7500	28.3	8.3	6.6	86	--	--
JUN 22, 73	1735	2	.3	190	26.5	7.5	5.2	63	--	8
			2.7	190	26.2	7.6	6.8	83	--	--
					LINE 258					
FEB 22, 72	1710	2	.3	23000	21.5	8.5	8.9	109	--	10
			.6	27000	21.6	8.4	8.3	104	--	--
APR 17, 72	1825	2	.3	26000	25.2	8.5	6.9	89	--	23
			.9	27000	25.1	8.5	6.5	86	--	--
APR 17, 72	1345	2	.3	28000	26.9	8.2	--	--	--	22
			.9	28000	26.9	8.2	--	--	--	--
JUN 12, 72	1245	2	.3	9000	29.2	8.6	8.9	117	--	43
			.9	9000	29.2	8.6	8.8	115	--	--
AUG 23, 72	1730	2	.3	13000	30.9	8.0	8.7	121	--	31
			.9	13000	30.9	8.2	8.9	124	--	--

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

WATER YEARS 1972 AND 1973--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 258 CONTINUED					
JAN 16, 73	1619	2	.3	22000	16.9	8.4	11.7	130	--	48
			.8	22000	17.0	8.4	12.3	137	--	--
APR 10, 73	1630	2	.3	19000	18.2	8.0	11.1	123	--	28
			.6	19000	18.2	8.0	11.1	123	--	--
JUN 05, 73	1243	2	.3	14000	28.6	8.2	7.1	95	--	14
			.9	14000	28.5	8.3	6.9	91	--	--
JUN 15, 73	1620	2	.3	180	27.2	7.3	7.6	94	--	13
			1.2	190	27.2	7.1	8.0	99	--	--
JUN 18, 73	1600	2	.3	380	30.4	7.4	6.7	88	--	22
			.9	380	30.4	7.4	6.8	89	--	--
JUN 22, 73	1730	2	.3	500	28.7	7.9	6.2	79	--	19
			.9	520	28.7	7.9	6.6	85	--	--
					LINE 264					
APR 17, 72	1815	2	.3	30000	25.2	8.4	6.6	91	--	23
			1.5	31000	25.1	8.4	6.7	89	--	--
JUN 12, 72	1300	2	.3	24000	29.2	8.2	7.8	108	--	50
			1.5	24000	29.2	8.1	8.0	111	--	--
AUG 23, 72	1740	2	.3	29000	29.2	8.1	8.5	120	--	33
			1.2	29000	29.2	8.4	8.7	123	--	--
OCT 11, 72	1635	2	.3	34000	27.5	8.2	8.2	117	--	--
			.9	34000	27.5	8.2	9.3	133	--	--
JAN 16, 73	1630	2	.3	32000	15.2	8.2	11.7	131	--	89
			1.1	34000	15.4	8.2	12.6	142	--	--
APR 10, 73	1637	2	.3	22000	17.1	8.0	11.0	122	--	42
			.6	22000	17.1	8.0	10.8	120	--	--
			1.2	25000	16.1	7.7	9.5	104	--	--
JUN 05, 73	1255	2	.3	18000	28.7	8.0	6.5	89	--	20
			1.5	18000	28.4	8.2	6.5	88	--	--
JUN 15, 73	1635	2	.3	530	28.0	7.5	8.4	106	--	8
			1.2	590	28.0	7.4	8.6	109	--	--
JUN 18, 73	1610	2	.3	450	30.1	7.6	7.0	92	--	13
			1.2	450	30.1	7.6	7.2	95	--	--
JUN 22, 73	1715	2	.3	1600	27.5	8.4	6.8	85	--	15
			1.4	8500	26.6	7.9	5.3	67	--	--
					LINE 270					
FEB 22, 72	1118	2	.3	30000	18.8	8.3	7.9	93	--	99
			1.5	30000	19.4	8.3	8.3	99	--	--
			3.0	27000	19.4	8.1	8.9	106	--	--
APR 17, 72	1605	2	.3	34000	26.1	8.2	7.4	103	--	65
			1.5	34000	26.5	8.3	8.0	111	--	--
			3.0	35000	26.1	8.4	7.0	97	--	--
			3.7	35000	25.8	8.0	5.6	78	--	--
			4.6	36000	26.1	7.8	3.0	42	--	--
JUN 12, 72	1135	2	.3	24000	27.1	7.9	7.2	96	--	89
			1.5	26000	27.0	7.8	5.3	72	--	--
			3.0	26000	27.0	7.8	4.8	65	--	--
			4.0	30000	27.2	7.8	5.0	69	--	--

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

WATER YEARS 1972 AND 1973--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 270 CONTINUED						
AUG 21, 72	1015	2	.3	35000	30.2	8.3	7.0	106	10	64
			1.5	37000	30.0	8.2	5.2	79	--	--
			3.0	38000	30.6	8.0	1.0	15	--	--
JAN 15, 73	1140	2	.3	32000	9.0	8.4	11.5	112	15	81
			1.5	33000	7.0	8.4	10.9	103	--	--
			3.4	35000	6.8	8.4	9.8	93	15	--
APR 10, 73	0820	2	.3	30000	13.8	7.8	7.3	79	15	71
			.6	30000	14.1	7.7	7.3	79	--	--
			.9	30000	14.2	7.7	7.4	80	--	--
			1.5	30000	14.2	7.7	7.3	79	--	--
			3.0	30000	14.2	7.7	7.3	79	--	--
JUN 05, 73	0650	2	.3	18000	27.7	8.0	5.0	67	30	48
			1.5	18000	27.5	8.1	5.7	76	20	--
			2.4	18000	27.6	8.1	5.5	73	30	--
			3.7	18000	27.4	8.0	4.7	63	65	--
				LINE 284						
FEB 22, 72	1140	1	.3	32000	19.9	8.4	8.5	104	--	69
			1.2	32000	20.0	8.4	9.2	112	--	--
APR 17, 72	1755	1	.3	36000	25.5	8.4	7.1	97	--	39
			1.5	36000	25.5	8.5	7.0	96	--	--
JUN 12, 72	1157	1	.3	27000	27.1	8.2	8.4	115	35	56
			1.5	28000	27.1	8.2	8.2	112	60	--
AUG 21, 72	1108	1	.3	41000	30.1	8.3	10.7	165	75	56
			1.2	41000	30.3	8.3	12.1	186	90	--
JAN 15, 73	1202	1	.3	36000	9.3	8.4	13.0	131	9	117
			.8	40000	9.7	8.5	11.6	120	9	--
APR 10, 73	0850	1	.6	31000	13.6	7.8	9.9	106	125	25
			1.2	31000	13.5	7.9	9.5	102	--	--
JUN 05, 73	1345	1	.3	23000	29.7	8.5	8.3	117	55	53
			1.5	23000	29.6	8.4	8.4	118	80	--
			2.7	23000	29.8	8.3	7.4	106	82	--
JUN 22, 73	1655	1	.3	8000	27.4	8.3	6.8	87	--	33
			1.5	8500	27.3	8.3	7.1	91	--	--
FEB 22, 72	1153	2	.3	34000	19.7	8.4	9.1	111	--	94
			1.5	35000	19.4	8.4	9.0	111	--	--
			3.0	35000	19.4	8.4	9.1	112	--	--
			4.0	34000	19.5	8.4	9.4	115	--	--
JUN 12, 72	1235	2	.3	26000	27.7	8.2	9.3	127	35	71
			1.5	27000	27.8	8.2	9.5	134	32	--
			2.1	27000	28.2	8.2	10.6	149	35	--
AUG 21, 72	1055	2	.3	39000	29.5	8.3	13.8	206	35	56
			2.1	37000	30.9	8.2	9.4	145	35	--
JAN 15, 73	1215	2	.3	38000	8.4	8.5	12.1	121	12	173
			1.5	38000	7.2	8.5	11.8	115	30	--
			3.4	40000	7.5	8.6	11.7	116	11	--
APR 10, 73	0900	2	.6	31000	13.6	7.9	9.7	104	70	38
			1.5	31000	13.6	7.9	9.6	103	--	--
			3.0	30000	13.6	7.9	9.3	100	--	--
JUN 05, 73	1355	2	.3	23000	29.5	8.4	9.2	130	30	48
			1.8	26000	29.1	8.3	8.1	114	45	--

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

WATER YEARS 1972 AND 1973--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 284 CONTINUED					
JUN 05, 73	1355	2	3.7	26000	29.3	8.2	6.3	89	90	--
JUN 22, 73	1645	2	.3	9500	27.0	8.3	6.7	85	--	25
			1.5	10000	26.6	8.3	6.6	84	--	--
			3.7	11000	26.8	8.4	7.6	96	--	--
FEB 22, 72	1206	3	.3	32000	19.9	8.4	9.0	110	--	96
			1.8	32000	19.5	8.3	9.2	111	--	--
APR 17, 72	1630	3	.3	36000	26.1	8.2	7.0	97	--	18
			1.5	36000	26.0	8.2	6.9	96	--	--
			2.4	36000	25.8	8.4	6.8	94	--	--
JUN 12, 72	1247	3	.3	26000	27.7	8.2	9.5	130	20	89
			2.1	26000	27.8	8.2	9.9	138	30	--
AUG 21, 72	1043	3	.3	39000	30.4	8.3	7.2	109	18	53
			1.8	37000	30.3	8.2	6.5	97	12	--
JAN 15, 73	1225	3	.3	37000	8.2	8.5	12.5	123	5	168
			1.5	40000	8.2	8.5	12.1	121	30	--
APR 10, 73	0915	3	.3	32000	13.9	8.1	9.4	102	40	64
			1.5	32000	13.9	8.1	9.5	103	--	--
JUN 05, 73	1405	3	.3	22000	29.4	8.5	8.8	124	40	48
			1.8	23000	29.4	8.4	7.8	110	45	--
JUN 22, 73	1630	3	.3	12000	27.5	8.6	7.7	100	--	33
			2.1	12000	27.3	8.4	7.9	103	--	--
					LINE 299					
FEB 22, 72	1232	2	.3	35000	20.7	8.4	8.4	106	--	66
			.9	33000	21.0	8.4	9.3	118	--	--
APR 17, 72	1650	2	.3	35000	25.9	8.2	6.9	96	--	18
			1.8	35000	25.9	8.2	7.0	97	--	--
JUN 01, 72	1110	2	.3	43000	27.4	8.2	6.1	90	--	48
			1.8	43000	27.3	8.2	5.6	82	--	--
JUN 12, 72	1307	2	.3	26000	28.4	8.3	10.7	149	22	66
			.9	27000	28.7	8.2	11.6	166	38	--
AUG 21, 72	1145	2	.3	37000	30.7	8.3	11.2	172	8	69
			1.1	39000	30.9	8.3	9.4	145	12	--
JAN 15, 73	1245	2	.3	36000	9.0	8.5	11.4	114	10	112
			.9	36000	9.2	8.4	11.1	112	15	--
APR 10, 73	0925	2	.6	31000	14.2	8.1	9.3	101	40	53
			1.5	32000	14.3	8.1	9.2	101	--	--
JUN 05, 73	1420	2	.6	22000	30.3	8.5	8.2	117	40	51
			1.2	22000	30.3	8.5	8.6	123	85	--
					LINE 300					
FEB 22, 72	1303	1	.3	35000	19.5	8.5	9.4	116	--	124
			1.7	33000	19.7	8.5	10.2	124	--	--
APR 17, 72	1740	1	.3	37000	25.6	8.3	6.8	93	--	36
			1.5	37000	25.6	8.3	6.7	92	--	--
			3.0	37000	25.6	8.3	6.6	90	--	--
JUN 12, 72	1345	1	.3	34000	27.7	8.4	13.6	194	35	69

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

WATER YEARS 1972 AND 1973--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						
JUN 12, 72	1345	1	1.5	34000	27.6	8.4	13.6	194	45	--
			2.1	30000	27.5	8.3	12.3	176	90	--
AUG 21, 72	1210	1	.3	42000	30.5	8.3	9.8	153	0	76
			2.1	41000	30.4	8.3	9.1	140	15	--
OCT 11, 72	1125	1	.3	42000	24.5	8.3	9.1	126	10	104
			1.5	42000	24.5	8.3	9.5	132	10	--
			2.4	42000	24.7	8.3	11.5	162	15	--
JAN 15, 73	1325	1	.3	34000	9.5	8.4	12.4	124	3	175
			1.5	36000	8.1	8.4	12.3	121	6	--
			2.1	37000	8.4	8.7	14.9	148	7	--
APR 10, 73	1005	1	.6	32000	13.9	8.1	10.3	112	125	30
			1.8	32000	14.0	8.1	10.3	112	--	--
JUN 05, 73	1450	1	.6	26000	29.6	8.5	8.1	116	75	38
			1.8	28000	29.2	8.4	8.2	117	75	--
FEB 22, 72	1250	2	.3	36000	18.8	8.4	9.3	113	--	102
			1.5	37000	18.7	8.4	9.6	117	--	--
			3.4	34000	18.2	8.4	8.8	105	--	--
APR 17, 72	1730	2	.3	36000	25.3	8.2	6.4	88	--	25
			1.5	36000	25.3	8.2	6.4	88	--	--
			3.0	36000	25.3	8.2	6.3	86	--	--
			4.6	36000	25.4	8.2	6.4	88	--	--
JUN 12, 72	1330	2	.5	34000	27.6	8.4	10.6	151	14	99
			1.5	34000	27.5	8.4	10.0	143	20	--
			3.0	34000	27.4	8.4	11.1	159	30	--
			4.6	34000	27.4	8.3	10.0	143	--	--
AUG 21, 72	1200	2	.3	41000	30.5	8.3	10.1	155	3	86
			1.5	41000	30.2	8.3	9.5	146	5	--
			3.0	38000	30.8	8.2	9.4	145	25	--
OCT 11, 72	1115	2	.3	44000	24.3	8.3	9.4	132	5	124
			1.5	44000	24.3	8.3	8.8	124	10	--
			3.0	44000	24.3	8.3	9.4	132	10	--
			4.0	44000	24.3	8.3	10.6	149	15	--
JAN 15, 73	1315	2	.3	34000	8.8	8.5	12.5	123	9	152
			1.5	38000	7.9	8.5	11.1	110	10	--
			3.0	39000	7.5	8.5	10.4	102	5	--
			3.7	40000	7.7	8.3	9.6	95	35	--
APR 10, 73	0945	2	.6	32000	14.3	8.1	9.6	106	45	56
			1.8	32000	14.3	8.1	9.7	107	--	--
			3.7	32000	14.3	8.1	9.7	107	--	--
JUN 05, 73	1440	2	.6	28000	29.4	8.5	8.0	114	40	51
			1.5	28000	29.5	8.5	8.3	119	40	--
			2.7	28000	29.5	8.4	8.7	124	50	--
FEB 22, 72	1242	3	.3	33000	19.5	8.5	9.5	116	--	86
			1.5	33000	20.1	8.5	9.7	120	--	--
APR 17, 72	1700	3	.3	36000	26.0	8.2	6.6	92	--	20
			2.1	36000	26.0	8.2	6.6	92	--	--
JUN 12, 72	1318	3	.5	28000	27.8	8.3	10.2	144	35	71
			1.5	28000	27.8	8.3	10.6	149	32	--
			2.1	28000	27.9	8.3	11.2	158	40	--
JUN 18, 72	1640	3	.3	27000	29.6	8.3	6.6	96	--	63
			1.5	27000	28.3	8.3	6.6	93	--	--
AUG 21, 72	1130	3	.3	39000	30.7	8.3	10.2	157	10	64

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

WATER YEARS 1972 AND 1973--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					
AUG 21, 72	1130	3	1.8	41000	31.1	8.2	9.9	155	10	--
OCT 11, 72	1105	3	.3	44000	24.2	8.3	9.0	127	15	91
			.9	44000	24.1	8.3	8.4	118	15	--
			1.8	46000	24.7	8.2	8.9	127	15	--
JAN 15, 73	1300	3	.3	37000	8.5	8.5	11.6	115	10	152
			1.5	37000	8.2	8.5	11.2	110	19	--
APR 10, 73	0935	3	.6	32000	14.1	8.1	9.4	102	40	61
			1.2	32000	14.3	8.1	9.4	102	--	--
JUN 05, 73	1430	3	.6	28000	29.6	8.5	8.4	122	50	58
			1.5	28000	29.8	8.4	8.1	117	40	--
					LINE 310					
FEB 22, 72	1210	2	.3	19000	20.3	8.1	10.4	121	--	36
			1.5	19000	20.2	8.1	10.4	120	--	--
			3.0	19000	20.6	8.2	9.6	112	--	--
			4.9	19000	21.7	8.0	10.9	130	--	--
APR 19, 72	1340	2	.3	32000	26.4	8.0	6.7	92	--	23
			1.5	32000	26.4	7.9	6.4	88	--	--
			3.0	32000	26.3	7.9	6.3	86	--	--
			5.2	33000	26.2	8.0	6.2	86	--	--
JUN 12, 72	1430	2	.3	31000	29.9	8.0	6.8	100	--	39
			1.5	31000	29.6	8.0	5.9	87	--	--
			3.0	31000	29.2	7.9	5.2	75	--	--
			5.2	31000	29.8	7.9	4.8	71	--	--
AUG 23, 72	1230	2	.3	35000	28.6	7.7	7.0	103	--	38
			1.5	26000	28.1	7.9	7.2	100	--	--
			3.0	26000	27.8	8.0	7.0	96	--	--
			4.9	33000	27.9	8.2	6.4	93	--	--
JAN 15, 73	1625	2	.3	19000	10.7	--	10.1	96	--	43
			1.5	22000	10.5	--	9.8	96	--	--
			3.0	22000	10.5	--	10.2	100	--	--
			4.9	22000	10.3	--	9.9	96	--	--
APR 10, 73	0935	2	.3	4600	15.7	7.8	9.3	93	--	10
			1.5	5200	15.7	7.8	9.2	93	--	--
			3.7	5200	15.5	7.7	9.4	95	--	--
JUN 05, 73	1050	2	.3	20000	28.6	--	6.1	85	--	29
			1.5	20000	28.5	--	6.0	83	--	--
			2.7	20000	28.4	--	6.2	85	--	--
			3.7	20000	28.4	--	6.0	82	--	--
					LINE 320					
FEB 22, 72	1245	2	.3	25000	21.1	8.3	10.7	130	--	30
			1.5	25000	20.6	8.2	10.6	128	--	--
			4.0	24000	21.3	8.2	11.5	139	--	--
JUN 12, 72	1500	2	.3	33000	28.9	8.2	6.7	99	--	28
			1.5	35000	28.7	8.2	6.7	99	--	--
			3.0	35000	28.6	8.2	6.4	94	--	--
			5.2	35000	28.6	8.2	6.0	88	--	--
AUG 23, 72	1315	2	.3	34000	29.8	7.8	7.7	115	--	--
			1.5	34000	29.3	8.0	7.3	107	--	--
			3.0	36000	29.5	8.1	7.3	109	--	--
			4.9	35000	29.2	8.3	7.7	113	--	--
JAN 15, 73	1555	2	.3	30000	10.3	--	10.5	106	--	41

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

WATER YEARS 1972 AND 1973--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 320 CONTINUED										
JAN 15, 73	1555	2	1.5	32000	10.1	--	9.8	98	--	--
			3.0	34000	10.0	--	9.6	97	--	--
			4.9	32000	10.0	--	10.6	106	--	--
APR 10, 73	1220	2	.3	14000	16.3	7.8	8.9	94	--	15
			1.5	15000	15.8	7.8	8.8	93	--	--
			3.7	16000	15.6	7.8	9.0	94	--	--
JUN 05, 73	1015	2	.3	20000	28.0	--	6.2	85	--	15
			1.5	20000	27.9	--	6.0	82	--	--
			3.4	24000	27.8	--	5.6	77	--	--
LINE 330										
AUG 23, 72	1530	2	.3	43000	31.7	7.5	8.8	142	--	38
			1.5	49000	31.7	8.0	10.6	177	--	--
			2.1	47000	30.1	7.6	6.0	97	--	--
			3.0	53000	29.9	8.1	3.4	56	--	--
OCT 11, 72	1240	2	.3	20000	28.3	8.1	7.5	103	25	102
			1.5	32000	28.3	8.1	6.5	93	--	--
			3.4	44000	28.1	8.2	5.1	80	30	--
JAN 15, 73	1345	2	.3	5500	15.2	--	11.5	115	--	38
			1.5	26000	13.8	--	10.7	113	--	--
			3.4	32000	14.7	--	10.0	110	--	--
APR 10, 73	0835	2	.3	3000	15.0	7.8	9.2	91	--	44
			1.5	3400	14.9	7.8	8.9	88	--	--
			3.0	9800	15.4	7.7	8.5	87	--	--
JUN 05, 73	0815	2	.3	18000	27.7	8.5	6.7	89	--	51
			1.5	28000	27.6	8.6	6.6	92	--	--
			3.4	43000	27.4	8.7	7.2	106	--	--
LINE 332										
FEB 22, 72	1430	2	.3	31000	20.6	8.6	9.7	120	--	76
			1.5	30000	21.0	8.6	9.8	123	--	--
LINE 333										
FEB 22, 72	1405	1	.3	28000	21.3	8.5	10.2	126	--	66
			1.2	27000	21.0	8.6	10.5	130	--	--
APR 19, 72	1130	1	.3	40000	26.0	8.2	7.3	104	--	46
			1.7	40000	25.9	8.2	7.4	106	--	--
JUN 12, 72	1550	1	.3	39000	29.1	8.3	7.1	106	--	20
			1.4	39000	29.1	8.3	7.5	112	--	--
AUG 23, 72	1410	1	.3	45000	30.9	7.3	9.4	152	--	--
			1.2	46000	30.5	7.3	6.0	97	--	--
			1.4	46000	30.1	7.3	2.9	46	--	--
			1.5	46000	30.1	7.4	2.6	41	--	--
OCT 11, 72	1305	1	.3	37000	27.5	8.2	6.8	97	60	23
			1.5	38000	27.6	8.2	6.3	91	70	--
JAN 15, 73	1425	1	.3	34000	10.6	--	12.4	126	--	140
			1.2	36000	10.2	--	12.1	125	--	--
APR 10, 73	1320	1	.3	19000	16.3	7.9	9.7	104	--	36
			1.2	19000	16.0	7.8	9.6	102	--	--
JUN 05, 73	0845	1	.3	32000	27.9	8.5	5.9	84	--	37

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

WATER YEARS 1972 AND 1973--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					
JUN 05, 73	0845	1	1.5	32000	27.8	8.6	6.0	86	--	--
FEB 22, 72	1530	2	.3	10000	20.6	8.3	9.7	110	--	56
			.9	47000	19.8	8.3	8.8	116	--	--
			1.5	47000	19.8	8.3	8.6	113	--	--
			3.4	47000	20.0	8.3	8.8	116	--	--
APR 19, 72	1310	2	.3	40000	26.7	8.1	7.0	101	--	22
			1.8	40000	26.6	8.1	6.8	99	--	--
JUN 12, 72	1600	2	.3	40000	29.0	8.3	7.0	106	--	20
			1.5	40000	29.0	8.3	7.0	106	--	--
AUG 23, 72	1430	2	.3	35000	30.6	7.7	8.1	125	--	33
			1.8	35000	30.6	7.9	8.1	125	--	--
OCT 11, 72	1355	2	.3	40000	27.5	8.2	8.9	131	40	23
			1.5	38000	27.7	8.2	8.4	122	40	--
JAN 15, 73	1437	2	.3	30000	11.2	--	11.6	118	--	155
			1.5	36000	9.6	--	12.2	124	--	--
APR 10, 73	1335	2	.3	20000	16.1	7.9	9.5	102	--	25
			1.5	19000	16.2	7.9	10.3	110	--	--
JUN 05, 73	0858	2	.3	29000	27.8	--	6.5	92	--	18
			1.5	29000	27.9	--	6.6	93	--	--
FEB 22, 72	1435	3	.3	17000	20.9	8.6	11.1	131	--	28
			.9	17000	20.9	8.6	11.1	131	--	--
APR 19, 72	1320	3	.3	32000	27.0	8.0	7.3	101	--	25
			1.2	32000	27.0	8.0	7.3	101	--	--
JUN 12, 72	1605	3	.3	34000	29.5	8.1	7.6	112	--	18
			.9	34000	29.4	8.1	7.5	110	--	--
AUG 23, 72	1445	3	.3	31000	30.7	7.4	8.5	127	--	28
			1.5	35000	30.8	7.3	8.9	137	--	--
OCT 11, 72	1400	3	.3	40000	27.4	8.2	8.0	116	115	15
			1.2	34000	27.4	8.2	8.2	117	115	--
JAN 15, 73	1446	3	.3	30000	11.1	--	11.1	113	--	147
			1.4	32000	10.2	--	12.2	122	--	--
APR 10, 73	1340	3	.3	20000	16.5	8.0	10.1	110	--	38
			1.2	20000	16.4	8.0	10.3	112	--	--
JUN 05, 73	0903	3	.3	24000	27.9	--	6.7	92	--	18
			1.5	29000	27.8	--	6.6	93	--	--
					LINE 340					
FEB 22, 72	1355	1	.3	32000	20.9	8.5	10.7	134	--	95
			1.5	32000	21.4	8.5	10.7	134	--	--
APR 19, 72	1115	1	.3	40000	26.1	8.1	7.4	106	--	53
			2.1	40000	26.0	8.1	7.0	100	--	--
JUN 12, 72	1535	1	.3	41000	29.1	8.3	7.2	109	--	55
			1.8	41000	29.1	8.3	6.8	103	--	--
APR 10, 73	1305	1	.3	20000	16.2	7.9	10.6	114	--	25
			.6	20000	16.2	7.9	10.8	116	--	--
FEB 22, 72	1340	2	.3	26000	21.1	8.6	10.8	132	--	94
			1.8	28000	21.2	8.6	11.0	136	--	--

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

WATER YEARS 1972 AND 1973--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 340 CONTINUED					
APR 19, 72	1100	2	.3	40000	26.1	8.0	7.0	100	--	22
			2.1	40000	26.1	8.0	7.2	103	--	--
JUN 12, 72	1525	2	.3	41000	28.9	8.2	6.7	102	--	38
			1.8	41000	29.0	8.2	6.8	103	--	--
APR 10, 73	1256	2	.3	20000	15.9	8.0	9.7	104	--	46
			1.8	20000	15.6	8.0	10.1	107	--	--
FEB 22, 72	1325	3	.3	19000	21.1	8.7	11.3	133	--	30
			.9	19000	21.2	8.7	11.6	136	--	--
APR 19, 72	1050	3	.3	33000	26.0	7.9	7.2	100	--	13
			1.1	32000	26.1	7.9	7.3	100	--	--
JUN 12, 72	1515	3	.3	33000	29.3	8.1	7.5	110	--	15
			1.2	34000	29.5	8.2	7.5	110	--	--
APR 10, 73	1250	3	.3	18000	16.5	7.9	9.8	105	--	14
			.8	19000	16.0	7.9	9.9	105	--	--
					LINE 343					
AUG 23, 72	1400	1	.3	45000	30.5	8.0	5.7	92	--	71
			.9	45000	30.5	8.3	6.2	100	--	--
JAN 15, 73	1500	1	.3	32000	11.0	--	11.7	120	--	189
			1.8	38000	10.0	--	11.1	116	--	--
JUN 05, 73	0925	1	.3	40000	27.7	--	5.8	85	--	38
			1.5	38000	27.6	--	6.0	87	--	--
AUG 23, 72	1350	2	.3	43000	30.3	8.3	7.5	117	--	30
			1.8	41000	30.2	8.4	7.3	112	--	--
JAN 15, 73	1512	2	.3	30000	11.1	--	11.3	115	--	168
			2.1	37000	9.6	--	10.5	107	--	--
JUN 05, 73	0935	2	.3	38000	27.9	--	5.7	84	--	34
			1.5	38000	27.9	--	5.8	85	--	--
			2.4	38000	27.9	--	5.7	84	--	--
AUG 23, 72	1340	3	.3	42000	27.6	8.2	7.4	110	--	20
			1.2	42000	27.5	8.5	7.5	110	--	--
JAN 15, 73	1520	3	.3	25000	11.8	--	11.1	112	--	112
			.6	32000	10.8	--	11.1	113	--	--
			1.2	34000	10.2	--	13.6	137	--	--
JUN 05, 73	0948	3	.3	20000	27.8	--	6.9	95	--	18
			1.2	20000	27.8	--	6.8	93	--	--
					LINE 350					
FEB 22, 72	1358	1	.5	33000	19.3	8.5	9.4	115	--	150
			1.5	35000	19.0	8.5	9.8	120	--	--
			2.1	35000	19.1	8.5	10.4	127	--	--
JUN 12, 72	1438	1	.3	45000	28.0	8.2	9.6	145	30	71
			1.5	45000	28.0	8.2	11.9	180	30	--
AUG 21, 72	1317	1	.3	44000	30.7	8.3	10.8	174	11	145
			1.5	45000	31.2	8.3	10.7	173	9	--
OCT 11, 72	1205	1	.3	42000	24.7	8.3	10.3	145	10	99
			1.5	43000	24.7	8.3	8.7	123	10	--
			3.0	42000	24.8	8.3	10.9	154	20	--

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

WATER YEARS 1972 AND 1973--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 350 CONTINUED						
JAN 15, 73	1415	1	.3	37000	8.4	8.5	11.4	113	10	160
			1.8	40000	8.1	8.4	10.5	105	10	--
APR 10, 73	1100	1	.6	30000	15.0	8.1	8.3	92	65	53
			1.5	30000	15.0	8.1	8.9	99	65	--
			3.0	31000	15.1	8.1	11.5	128	75	--
JUN 05, 73	1530	1	.6	40000	29.3	8.5	10.9	165	15	109
			2.1	37000	29.1	8.5	10.2	150	20	--
FEB 22, 72	1415	2	.5	37000	18.3	8.4	9.2	111	--	119
			1.5	37000	18.2	8.9	10.0	120	--	--
			3.0	37000	18.2	8.4	10.2	123	--	--
			4.0	36000	18.5	8.4	10.0	122	--	--
JUN 12, 72	1422	2	.5	42000	27.7	8.1	8.2	121	--	69
			1.5	42000	27.5	8.1	8.6	126	41	--
			3.0	42000	27.4	8.1	8.0	118	62	--
			4.6	44000	27.2	8.1	8.0	119	71	--
			5.8	42000	27.4	8.1	11.3	166	72	--
AUG 21, 72	1305	2	.3	46000	31.3	8.2	9.3	150	2	71
			1.5	49000	30.7	8.2	9.0	148	0	--
			3.0	49000	30.0	8.1	4.6	74	8	--
			6.1	44000	30.4	8.1	3.5	56	35	--
OCT 11, 72	1150	2	.3	42000	25.0	8.3	10.1	142	20	66
			1.5	42000	25.0	8.3	8.4	118	15	--
			3.0	42000	25.0	8.3	8.5	120	20	--
			4.6	42000	25.2	8.2	9.3	131	25	--
			5.2	42000	25.2	8.3	10.1	142	20	--
JAN 15, 73	1400	2	.3	34000	9.2	8.4	12.0	119	2	147
			1.5	38000	7.3	8.4	11.0	107	15	--
			3.0	40000	7.1	8.4	10.0	98	20	--
			4.9	40000	7.4	8.4	9.2	91	30	--
APR 10, 73	1040	2	.6	30000	15.0	8.1	11.3	126	50	58
			1.5	30000	14.9	8.1	11.5	128	55	--
			3.4	30000	14.9	8.1	11.9	132	80	--
JUN 05, 73	1515	2	.6	34000	29.4	8.5	9.9	146	30	69
			1.5	49000	29.2	8.4	8.5	135	35	--
			2.4	34000	29.3	8.4	8.9	131	35	--
			3.4	49000	28.8	8.2	5.3	84	70	--
FEB 22, 72	1430	3	.3	39000	18.5	8.4	9.4	115	--	122
			1.5	38000	18.7	8.4	10.0	123	--	--
JUN 12, 72	1407	3	.3	39000	28.2	8.2	11.1	163	48	71
			1.5	40000	28.1	8.2	12.6	185	38	--
			2.6	40000	28.2	8.2	12.5	184	72	--
AUG 21, 72	1255	3	.3	40000	31.0	8.2	9.8	153	5	84
			1.5	40000	30.5	8.2	7.5	117	11	--
			2.4	46000	30.9	8.1	5.6	90	21	--
OCT 11, 72	1145	3	.3	41000	25.2	8.2	9.4	130	40	--
			1.5	41000	25.2	8.2	9.0	125	40	--
			2.1	41000	25.3	8.3	11.2	158	40	--
JAN 15, 73	1345	3	.3	31000	10.1	8.4	12.7	127	5	155
			1.5	36000	7.2	8.5	11.2	108	10	--
			2.1	40000	7.5	8.5	10.7	106	9	--
APR 10, 73	1025	3	.6	28000	14.4	8.1	9.6	104	75	38
			1.8	28000	14.4	8.1	10.2	111	80	--
JUN 05, 73	1505	3	.6	31000	29.8	8.5	9.8	144	30	48

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

WATER YEARS 1972 AND 1973--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 350 CONTINUED					
JUN 05, 73	1505	3	1.8	31000	29.8	8.5	10.0	147	30	--
					LINE 363					
FEB 22, 72	1453	1	.3	39000	18.6	8.5	9.5	117	--	213
			1.5	44000	17.9	8.4	9.8	122	--	--
			2.1	42000	18.0	8.4	10.2	126	--	--
JUN 12, 72	1504	1	.3	47000	28.1	8.2	10.9	165	32	71
			1.2	47000	28.3	8.2	12.6	191	32	--
AUG 21, 72	1345	1	.3	40000	31.2	8.3	11.1	173	5	135
			1.5	49000	30.5	8.3	10.7	173	5	--
			2.7	48000	30.2	8.3	10.3	166	30	--
OCT 11, 72	1230	1	.3	44000	24.6	8.3	10.8	154	10	102
			1.5	44000	24.6	8.3	10.6	151	10	--
			2.4	45000	24.7	8.3	12.0	171	15	--
JAN 15, 73	1435	1	.3	38000	8.8	8.5	12.3	124	13	142
			1.4	40000	8.7	8.5	11.2	113	10	--
APR 10, 73	1125	1	.6	32000	15.0	8.0	8.9	99	70	51
			1.2	32000	15.0	8.0	8.9	99	70	--
			2.7	32000	15.1	8.0	9.3	103	90	--
JUN 05, 73	1550	1	.3	49000	30.1	8.5	10.4	168	15	152
			2.1	49000	30.2	8.5	10.6	171	15	--
FEB 22, 72	1522	2	.3	40000	18.5	8.5	8.9	110	--	170
			1.5	40000	18.5	8.5	9.5	117	--	--
			3.0	44000	18.0	8.5	9.0	112	--	--
			3.7	44000	18.3	8.4	9.1	114	--	--
JUN 12, 72	1523	2	.3	46000	28.1	8.3	12.5	189	20	127
			1.5	47000	27.9	8.3	14.3	217	15	--
			3.0	47000	27.9	8.2	13.5	205	30	--
			4.3	47000	27.8	8.2	14.5	220	78	--
AUG 21, 72	1400	2	.3	49000	31.5	8.3	10.0	167	3	117
			1.5	50000	30.5	8.3	10.4	168	3	--
			3.0	44000	30.5	8.4	10.8	174	3	--
			4.0	42000	30.7	8.3	8.3	132	25	--
OCT 11, 72	1245	2	.3	44000	24.8	8.3	9.0	129	25	99
			1.5	44000	24.9	8.3	8.6	123	15	--
			3.0	44000	24.8	8.3	8.6	123	15	--
			4.0	44000	24.7	8.3	9.0	129	20	--
JAN 15, 73	1450	2	.3	38000	9.5	8.5	13.3	137	0	56
			1.5	38000	7.4	8.5	11.2	109	8	--
			3.0	38000	7.3	8.5	10.8	105	10	--
			3.7	40000	7.7	8.5	10.5	104	20	--
APR 10, 73	1150	2	.6	33000	15.4	8.1	8.9	100	45	71
			1.8	33000	15.5	8.1	7.8	89	40	--
			3.7	39000	15.9	8.1	6.7	78	175	--
JUN 05, 73	1600	2	.3	34000	30.2	8.6	9.1	136	15	101
			1.5	42000	29.1	8.4	10.6	163	20	--
			3.4	37000	29.2	8.4	9.9	146	25	--
FEB 22, 72	1535	3	.3	37000	18.2	8.5	8.9	107	--	--
			1.5	37000	18.1	8.5	9.8	118	--	--
			2.7	37000	18.6	8.5	9.7	118	--	--
JUN 12, 72	1535	3	.5	35000	28.0	8.3	9.9	143	20	109
			1.5	35000	27.8	8.3	9.9	143	30	--

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

WATER YEARS 1972 AND 1973--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										
JUN 12, 72	1535	3	3.4	43000	27.5	8.1	10.4	153	92	--
AUG 21, 72	1415	3	.3	43000	31.9	8.4	11.3	182	0	185
			1.5	50000	30.7	8.3	11.0	180	0	--
			3.0	49000	29.9	8.1	6.3	102	20	--
OCT 11, 72	1300	3	.3	42000	23.6	8.3	6.3	115	10	104
			1.5	42000	23.5	8.3	9.1	126	10	--
			3.4	42000	23.8	8.3	14.1	196	10	--
JAN 15, 73	1500	3	.3	37000	9.8	8.4	13.2	135	8	147
			1.5	37000	7.7	8.4	11.2	109	5	--
			3.0	40000	7.8	8.5	10.8	108	10	--
APR 10, 73	1205	3	.6	34000	15.6	8.1	10.0	114	60	51
			1.5	34000	15.5	8.1	9.8	111	65	--
			3.0	34000	15.3	8.1	9.9	111	90	--
JUN 05, 73	1610	3	.6	30000	29.8	8.5	8.2	121	40	43
			1.5	37000	29.5	8.5	10.0	149	40	--
			3.0	36000	29.6	8.3	6.9	103	45	--
FEB 22, 72	1552	4	.5	37000	18.3	8.4	9.0	108	--	109
			1.5	37000	18.3	8.5	9.4	113	--	--
			3.4	36000	18.4	8.4	9.8	118	--	--
JUN 12, 72	1553	4	.5	40000	28.0	8.3	11.2	166	20	109
			1.5	40000	27.9	8.3	12.3	181	23	--
			3.0	40000	27.8	8.3	13.3	196	25	--
			4.0	40000	27.6	8.2	12.7	187	28	--
AUG 21, 72	1430	4	.3	44000	31.9	8.4	11.1	182	3	150
			1.5	46000	30.6	8.4	10.5	169	10	--
			3.0	48000	30.5	8.3	9.2	148	30	--
			4.3	44000	30.5	8.3	5.6	90	80	--
OCT 11, 72	1315	4	.3	44000	24.2	8.3	10.8	152	5	117
			1.5	44000	24.2	8.3	10.6	149	5	--
			3.0	44000	24.2	8.3	10.6	149	10	--
			3.7	44000	24.0	8.3	12.2	172	10	--
JAN 15, 73	1515	4	.3	37000	10.1	8.4	12.0	124	0	157
			1.5	37000	7.9	8.4	11.1	109	15	--
			3.4	40000	8.0	8.4	10.5	105	12	--
APR 10, 73	1220	4	.6	34000	15.7	8.1	9.8	111	60	53
			1.8	34000	15.5	8.1	9.8	111	70	--
			3.7	34000	15.5	8.1	10.0	114	90	--
JUN 05, 73	1625	4	.6	30000	29.7	8.5	12.2	179	35	44
			1.5	30000	29.7	8.5	11.9	175	50	--
			3.7	30000	29.8	8.5	12.0	176	60	--
FEB 22, 72	1603	5	.5	35000	18.5	8.5	9.0	110	--	168
			1.5	35000	18.4	8.5	9.0	108	--	--
			2.7	35000	18.5	8.5	9.3	113	--	--
JUN 12, 72	1607	5	.5	40000	28.1	8.3	10.6	156	15	86
			1.5	41000	28.0	8.3	10.0	149	20	--
			3.0	42000	27.8	8.3	11.6	173	--	--
			4.0	42000	27.8	8.3	12.8	191	20	--
AUG 21, 72	1445	5	.3	41000	31.9	8.4	11.1	176	0	124
			1.5	41000	30.5	8.4	10.7	167	20	--
			3.4	42000	30.8	8.4	11.2	178	20	--
OCT 11, 72	1330	5	.3	42000	24.7	8.3	11.1	156	10	99
			1.5	42000	24.7	8.3	10.7	151	10	--
			3.4	42000	24.7	8.3	10.7	151	20	--

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

WATER YEARS 1972 AND 1973--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						
JAN 15, 73	1530	5	.3	38000	10.2	8.4	11.8	123	10	168
			1.5	39000	8.1	8.5	11.0	109	15	--
			3.4	42000	8.3	8.5	10.7	109	15	--
APR 10, 73	1235	5	.6	33000	15.8	8.1	9.9	112	65	58
			1.8	33000	15.6	8.1	9.8	111	75	--
			3.4	33000	15.6	8.1	10.0	114	90	--
JUN 05, 73	1640	5	.6	30000	29.6	8.5	13.5	199	35	56
			1.5	30000	29.7	8.5	13.5	199	35	--
			2.7	30000	29.7	8.5	12.1	178	35	--
FEB 22, 72	1628	6	.5	35000	19.3	8.4	9.4	116	--	130
			1.5	35000	19.5	8.4	9.7	120	--	--
			2.4	35000	19.6	8.4	10.1	125	--	--
JUN 12, 72	1628	6	.5	34000	28.0	8.4	11.9	172	10	112
			1.5	34000	28.0	8.4	14.6	212	20	--
			3.0	34000	28.0	8.4	14.5	210	26	--
AUG 21, 72	1500	6	.3	38000	32.0	8.3	14.4	225	10	130
			1.5	40000	31.7	8.3	12.2	194	5	--
			3.0	40000	30.8	8.3	11.0	172	20	--
OCT 11, 72	1345	6	.3	44000	22.9	8.3	14.6	200	25	97
			1.5	44000	22.8	8.3	11.4	156	25	--
			3.4	44000	23.0	8.3	14.2	195	35	--
JAN 15, 73	1540	6	.3	38000	10.4	8.4	12.1	126	10	152
			1.5	38000	8.4	8.4	11.0	110	15	--
			3.0	42000	7.7	8.5	11.0	110	19	--
APR 10, 73	1255	6	.3	32000	15.6	8.1	9.9	111	55	56
			1.5	32000	15.4	8.1	9.6	107	55	--
			3.0	32000	15.2	8.1	9.5	106	90	--
JUN 05, 73	1655	6	.6	26000	30.1	8.6	11.8	169	25	63
			1.8	30000	30.1	8.6	10.6	156	35	--
				LINE 375						
FEB 24, 72	0950	1	.3	39000	18.5	8.2	8.7	106	--	183
			1.5	42000	18.2	8.2	9.1	112	--	--
			3.0	44000	17.9	8.2	9.3	116	--	--
			3.7	45000	18.2	8.2	12.5	156	--	--
JUN 14, 72	1145	1	.3	48000	28.0	8.2	8.6	130	--	41
			1.5	49000	27.8	8.2	8.2	126	80	--
			3.0	49000	27.8	8.2	7.8	120	100	--
			4.3	49000	28.0	8.2	8.4	129	110	--
AUG 22, 72	1005	1	.3	47000	29.9	8.2	6.8	110	0	142
			1.5	48000	29.8	8.2	7.1	115	5	--
			3.7	52000	29.5	8.2	6.9	111	30	--
SEP 22, 72	1035	1	.3	47000	28.2	8.1	12.3	186	12	--
			1.5	47000	28.1	8.1	11.9	180	25	--
			3.7	49000	28.0	8.0	11.8	182	30	--
OCT 11, 72	1525	1	.3	44000	24.2	8.3	10.4	146	15	117
			1.5	44000	24.2	8.3	9.2	130	20	--
			3.4	45000	24.5	8.3	13.0	183	20	--
JAN 16, 73	1210	1	.3	38000	8.1	8.2	12.3	122	3	112
			1.5	38000	7.5	8.2	12.8	125	5	--
			3.4	38000	7.6	8.2	11.6	114	4	--
APR 11, 73	1030	1	.6	34000	16.7	8.1	8.3	95	25	102

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

WATER YEARS 1972 AND 1973--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 375 CONTINUED					
APR 11, 73	1030	1	1.2	34000	16.7	8.1	8.5	98	20	--
			2.4	35000	17.2	8.1	8.6	101	20	--
			4.0	38000	17.4	8.1	8.7	105	30	--
JUN 06, 73	1800	1	.3	34000	29.1	8.2	8.0	118	--	94
			1.8	36000	27.7	8.1	7.1	101	--	--
			3.7	48000	27.7	7.9	5.7	86	--	--
FEB 24, 72	1007	2	.3	36000	18.7	8.2	9.5	114	--	127
			1.5	35000	18.7	8.2	10.6	128	--	--
			3.0	35000	18.7	8.2	11.0	133	--	--
JUN 14, 72	1126	2	.5	47000	27.9	8.2	8.5	129	55	69
			1.5	47000	27.8	8.2	8.5	129	50	--
			3.0	47000	27.7	8.2	8.6	130	90	--
			4.0	47000	27.7	8.2	8.8	133	90	--
AUG 22, 72	0950	2	.3	49000	29.8	8.2	6.7	108	28	142
			1.5	49000	29.8	8.2	6.7	108	30	--
			3.4	42000	29.0	8.2	7.7	118	40	--
SEP 22, 72	1023	2	.3	48000	28.2	8.1	12.1	183	15	--
			3.4	48000	28.2	8.1	9.1	137	15	--
OCT 11, 72	1505	2	.3	44000	24.3	8.3	11.4	161	10	117
			1.5	44000	24.3	8.3	--	--	10	--
			3.4	44000	24.4	8.3	12.4	175	15	--
JAN 16, 73	1155	2	.3	39000	8.4	8.2	12.4	124	1	150
			1.5	38000	7.9	8.2	12.7	126	1	--
			3.4	38000	7.5	8.2	12.5	123	4	--
APR 11, 73	1010	2	.6	34000	16.7	8.1	9.0	103	15	142
			1.8	34000	16.8	8.1	9.2	107	15	--
			3.4	36000	16.9	8.1	8.8	104	15	--
JUN 06, 73	1817	2	.3	34000	28.6	8.1	8.0	118	--	79
			1.8	38000	27.6	8.0	5.8	84	--	--
			3.7	38000	27.7	8.0	5.9	86	--	--
FEB 24, 72	1025	3	.5	34000	19.4	8.2	8.7	106	--	74
			1.5	34000	19.3	8.2	9.4	115	--	--
			2.4	34000	19.5	8.2	11.3	138	--	--
JUN 14, 72	0950	3	.5	34000	27.2	8.2	8.4	118	--	64
			1.5	34000	27.2	8.2	7.9	111	25	--
			3.0	35000	27.3	8.1	7.4	106	32	--
			4.0	41000	27.2	8.0	6.0	87	40	--
AUG 22, 72	0925	3	.3	38000	29.9	8.3	6.5	98	22	140
			1.5	39000	29.8	8.2	6.2	94	30	--
			3.4	43000	29.2	8.2	7.1	109	40	--
SEP 22, 72	1005	3	.3	45000	28.5	8.2	10.2	157	9	--
			3.7	48000	28.6	8.1	8.3	128	52	--
OCT 11, 72	1445	3	.3	41000	24.7	8.3	11.2	153	15	104
			1.5	41000	24.6	8.3	12.8	178	15	--
			3.4	41000	24.7	8.4	11.0	153	20	--
JAN 16, 73	1030	3	.3	38000	7.5	8.2	12.2	120	2	152
			1.5	39000	7.4	8.2	12.6	122	5	--
			3.4	38000	6.8	8.2	12.0	115	35	--
APR 11, 73	0900	3	.6	30000	16.3	8.1	8.7	99	20	91
			1.8	30000	16.4	8.1	8.8	100	20	--
			3.4	33000	16.8	8.1	8.3	97	50	--
JUN 06, 73	1835	3	.3	31000	29.0	8.1	8.7	126	--	79

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

WATER YEARS 1972 AND 1973--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 375 CONTINUED						
JUN 06, 73	1835	3	1.8	34000	28.0	8.1	7.3	106	--	--
			3.7	39000	27.6	8.0	5.8	78	--	--
FEB 24, 72	1045	4	.5	36000	19.3	8.2	9.8	121	--	61
			1.5	36000	19.2	8.2	10.7	130	--	--
			2.1	35000	19.4	8.2	12.0	148	--	--
JUN 14, 72	0933	4	.5	27000	27.1	8.1	8.2	112	50	41
			1.5	27000	27.1	8.1	8.8	121	50	--
			2.7	27000	27.0	8.1	11.3	155	145	--
AUG 22, 72	0905	4	.3	37000	29.8	8.3	6.4	97	42	69
			1.5	35000	29.8	8.2	6.8	103	20	--
			2.1	33000	29.3	8.2	7.8	115	42	--
SEP 22, 72	0950	4	.3	41000	28.7	8.1	10.6	158	20	--
			2.4	40000	28.4	8.1	10.3	154	30	--
OCT 11, 72	1430	4	.3	41000	25.0	8.2	11.2	156	25	89
			1.5	41000	25.2	8.3	11.0	153	25	--
			2.4	41000	25.4	8.3	10.8	152	30	--
JAN 16, 73	1015	4	.3	38000	9.5	8.2	12.4	128	0	145
			1.5	38000	9.2	8.2	12.7	130	0	--
			2.1	38000	9.3	8.2	12.6	129	0	--
APR 11, 73	0840	4	.6	28000	16.5	8.1	8.6	97	30	58
			1.2	28000	16.5	8.1	8.7	98	30	--
			2.4	28000	16.5	8.1	9.0	101	35	--
				LINE 382						
JUN 14, 72	1258	1	.3	50000	28.3	8.2	11.2	175	70	61
			1.8	50000	28.4	8.2	10.3	161	90	--
AUG 22, 72	1120	1	.3	52000	30.3	8.3	10.0	164	11	122
			1.2	52000	30.5	8.3	11.4	190	8	--
OCT 12, 72	1115	1	.3	47000	25.2	8.4	9.7	140	5	152
			1.5	47000	25.8	8.4	11.0	162	5	--
JAN 16, 73	1310	1	.3	39000	12.4	8.3	11.9	129	10	94
			1.8	38000	12.4	8.3	12.5	136	6	--
APR 11, 73	1115	1	.3	40000	17.5	8.2	8.0	98	15	124
			1.5	40000	17.6	8.1	8.6	105	20	--
JUN 06, 73	1715	1	.3	44000	28.9	8.0	7.8	122	--	76
			1.5	46000	28.2	8.0	7.2	109	--	--
			2.4	46000	28.2	8.0	7.5	114	--	--
FEB 24, 72	1025	2	.3	46000	19.4	8.2	10.0	128	--	165
			1.5	46000	19.4	8.2	9.8	126	--	--
			4.3	46000	19.3	8.2	10.7	137	--	--
OCT 12, 72	1130	2	.3	47000	25.0	8.4	8.3	120	10	163
			1.5	47000	25.0	8.4	8.9	129	10	--
			3.0	47000	25.0	8.4	9.1	132	10	--
			4.6	47000	25.6	8.4	11.4	168	15	--
JAN 16, 73	1330	2	.3	40000	11.2	8.3	11.9	127	10	71
			1.5	39000	10.9	8.3	12.3	129	12	--
			3.0	39000	11.0	8.3	12.1	127	15	--
			4.6	38000	10.9	8.3	11.7	123	15	--
			6.1	38000	10.9	8.3	12.0	126	15	--
			7.0	38000	11.0	8.2	11.9	125	15	--
JAN 16, 73	1350	2	.3	40000	11.2	8.3	11.2	119	12	74

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

WATER YEARS 1972 AND 1973--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					
JAN 16, 73	1350	2	1.5	39000	11.2	8.3	11.3	119	12	--
			3.0	39000	11.5	8.3	11.3	120	15	--
APR 11, 73	1125	2	.3	39000	17.6	8.1	9.1	110	30	99
			2.4	39000	17.6	8.1	9.1	110	30	--
JUN 06, 73	1649	2	.3	47000	28.7	8.0	6.5	100	--	119
			1.5	47000	28.6	8.0	6.9	106	--	--
			4.6	47000	28.1	8.0	6.3	105	--	--
			7.0	46000	28.1	8.0	6.7	101	--	--
JUN 14, 72	1326	3	.3	50000	28.3	8.2	10.4	162	105	48
			1.5	50000	28.2	8.2	10.5	164	90	--
			3.0	50000	28.4	8.2	11.8	184	90	--
AUG 22, 72	1220	3	.3	50000	30.8	8.3	11.3	185	--	178
			1.5	53000	30.5	8.3	11.1	185	10	--
			3.0	53000	30.8	8.3	11.4	190	10	--
OCT 12, 72	1140	3	.3	47000	24.9	8.4	9.7	140	15	107
			1.5	41000	25.0	8.3	9.8	136	20	--
			3.0	41000	25.5	8.3	10.8	152	15	--
JAN 16, 73	1355	3	.3	40000	10.5	8.3	11.7	123	12	74
			1.5	40000	10.5	8.3	12.3	129	12	--
			3.4	39000	10.5	8.3	12.1	126	18	--
APR 11, 73	1140	3	.3	38000	17.5	8.1	8.7	105	30	91
			1.2	38000	17.5	8.1	9.1	110	30	--
JUN 06, 73	1639	3	.3	43000	29.7	8.0	7.4	115	--	127
			1.5	46000	28.7	8.0	7.4	114	--	--
			2.4	46000	28.1	8.0	7.4	112	--	--
APR 11, 72	1150	4	.3	33000	17.1	8.0	8.5	99	20	89
			1.8	33000	17.1	8.0	8.7	101	25	--
			3.7	33000	17.1	8.0	8.9	103	40	--
JUN 14, 72	1335	4	.3	49000	28.2	8.2	10.9	168	75	61
			1.5	49000	28.1	8.2	11.4	175	85	--
			3.0	49000	28.1	8.2	11.2	172	85	--
			3.7	49000	28.2	8.2	11.5	177	80	--
AUG 22, 72	1235	4	.3	41000	30.7	8.3	10.3	161	5	124
			1.5	51000	30.5	8.3	11.4	184	8	--
			3.0	51000	30.5	8.3	11.3	182	15	--
			4.0	51000	30.6	8.3	11.2	184	30	--
OCT 12, 72	1150	4	.3	47000	24.7	8.3	8.9	129	20	97
			1.5	47000	24.7	8.3	8.5	123	10	--
			3.0	47000	24.8	8.3	10.3	148	10	--
			3.7	47000	25.2	8.3	11.7	170	0	--
JAN 16, 73	1410	4	.3	40000	10.8	8.2	11.9	127	10	91
			1.5	40000	10.7	8.2	11.9	125	12	--
			3.0	39000	10.5	8.2	12.0	125	12	--
APR 11, 73	1150	4	.3	33000	17.1	8.0	8.5	99	20	89
			1.8	33000	17.1	8.0	8.7	101	25	--
			3.7	33000	17.1	8.0	8.9	103	40	--
JUN 06, 73	1630	4	.3	36000	28.9	8.2	7.7	113	--	66
			1.5	43000	28.3	8.1	6.8	103	--	--
			3.2	43000	28.2	8.0	6.8	101	--	--
					LINE 397					
FEB 24, 72	0920	2	.5	40000	18.2	8.2	8.6	104	--	173

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

WATER YEARS 1972 AND 1973--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 397 CONTINUED					
FEB 24, 72	0920	2	1.5	40000	18.2	8.1	8.7	105	--	--
			3.0	40000	18.1	8.1	8.8	106	--	--
			6.1	41000	18.0	8.1	9.3	112	--	--
			9.1	42000	17.9	8.1	9.4	116	--	--
			12.2	42000	17.8	8.1	10.2	126	--	--
			15.2	42000	17.8	8.1	12.6	156	--	--
JUN 14, 72	1215	2	.3	49000	27.5	8.2	8.6	130	100	28
			1.5	49000	27.4	8.2	9.1	138	100	--
			3.0	49000	27.4	8.2	9.8	148	110	--
			6.1	49000	27.4	8.2	9.1	138	100	--
			9.1	49000	27.4	8.2	9.0	136	95	--
			11.6	49000	27.4	8.2	9.4	142	105	--
AUG 22, 72	1035	2	.3	52000	30.1	8.2	9.2	151	0	234
			1.5	52000	30.0	8.2	10.3	169	0	--
			3.0	52000	30.0	8.2	9.8	161	0	--
			6.1	52000	30.0	8.2	9.6	157	0	--
			9.1	52000	30.0	8.2	10.0	169	0	--
			13.1	52000	29.6	8.2	9.7	156	0	--
SEP 21, 72	1815	2	.3	52000	29.0	8.2	8.9	141	0	--
			3.0	52000	28.9	8.2	8.5	135	0	--
			6.1	52000	28.6	8.2	8.0	127	0	--
			9.1	52000	28.7	8.2	7.7	122	0	--
			13.1	52000	28.6	8.2	7.9	125	0	--
OCT 12, 72	1050	2	1.5	47000	24.5	8.4	7.2	101	10	--
			3.0	47000	24.5	8.4	7.6	107	10	--
			6.1	47000	24.4	8.4	8.8	124	10	--
			12.2	47000	24.5	8.2	10.0	141	15	--
JAN 16, 73	1245	2	.3	40000	11.1	8.3	10.5	112	8	81
			1.5	40000	11.1	8.3	11.6	123	5	--
			3.0	40000	11.1	8.3	11.8	126	5	--
			4.6	40000	11.1	8.3	11.5	122	8	--
			6.1	40000	11.0	8.3	13.5	144	5	--
			9.1	40000	11.0	8.3	13.5	144	5	--
			12.5	40000	11.2	8.3	11.9	127	2	--
APR 11, 73	1055	2	.3	40000	17.6	8.1	9.0	110	20	145
			1.5	40000	17.6	8.1	9.0	110	20	--
			3.0	40000	17.6	8.1	8.6	105	20	--
			6.1	40000	17.6	8.1	8.6	105	20	--
			9.1	40000	17.7	8.1	8.2	100	20	--
			11.6	40000	17.7	8.1	8.4	102	20	--
JUN 06, 73	1735	2	.3	44000	28.6	8.0	7.2	111	--	99
			1.5	45000	28.4	8.0	6.9	106	--	--
			3.0	46000	27.8	8.0	6.5	98	--	--
			4.6	48000	27.7	8.0	5.9	89	--	--
			6.1	50000	27.7	8.0	5.9	91	--	--
			9.1	50000	27.5	8.0	6.1	92	--	--
			12.2	50000	27.5	8.0	6.2	94	--	--
			14.3	50000	27.5	8.0	6.5	98	--	--
					LINE 400					
FEB 24, 72	1010	3	.3	46000	20.0	8.0	8.6	112	--	104
			3.0	46000	20.0	8.0	8.6	112	--	--
			5.8	46000	20.0	8.0	8.5	110	--	--
JUN 06, 73	1700	3	.3	46000	28.7	8.0	6.8	105	--	89
			1.5	45000	28.5	8.0	6.9	106	--	--
			3.0	46000	28.1	8.0	6.5	98	--	--
			4.6	46000	27.9	8.0	6.2	94	--	--
			5.9	46000	27.8	8.0	6.3	96	--	--
					LINE 600					
APR 18, 72	1450	2	.3	15000	26.1	8.0	7.7	99	--	30

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

WATER YEARS 1972 AND 1973--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 600 CONTINUED					
APR 18, 72	1450	2	1.2	14000	26.2	7.9	7.7	97	--	--
MAY 17, 72	1030	2	.3	1000	26.1	6.8	--	--	--	41
			1.2	1400	25.9	6.8	--	--	--	--
MAY 22, 72	1555	2	.3	3000	28.2	8.0	8.2	105	--	--
			1.2	2800	28.2	7.9	8.6	110	--	--
JUN 13, 72	1145	2	.3	3300	28.4	7.9	7.1	91	--	51
			.9	3300	28.4	7.9	7.0	90	--	--
JUL 19, 72	1150	2	.3	--	29.9	8.1	--	--	--	57
			1.2	--	30.0	8.2	--	--	--	--
AUG 22, 72	1323	2	.3	3200	30.8	--	7.4	100	--	56
			.9	3200	30.7	--	7.1	96	--	--
JAN 16, 73	1051	2	.3	10000	13.8	8.0	11.5	114	--	64
			.6	10000	13.9	8.0	11.5	114	--	--
APR 09, 73	1451	2	.3	4100	16.7	7.7	8.7	90	--	13
			.9	4100	16.8	7.7	8.9	92	--	--
JUN 04, 73	1446	2	.3	14000	28.0	8.1	7.5	99	--	38
			1.5	14000	27.8	8.4	7.4	97	--	--
JUN 15, 73	1020	2	.3	120	24.2	8.3	5.4	64	--	--
			1.2	120	24.2	8.3	5.6	66	--	--
JUN 18, 73	1110	2	.3	150	28.2	--	5.8	73	--	30
			1.5	160	28.1	--	5.9	75	--	--
JUN 22, 73	1105	2	.8	320	25.8	7.2	3.0	37	--	18
JUL 03, 73	1015	2	.3	920	29.7	7.0	7.0	91	--	34
			1.2	1100	29.7	7.1	7.0	91	--	--
					LINE 606					
APR 18, 72	1320	2	.3	22000	26.1	7.9	7.3	96	--	39
			.9	23000	26.4	7.9	8.0	105	--	--
MAY 17, 72	1020	2	.3	1600	25.0	7.0	--	--	--	23
			.9	1800	24.9	7.0	--	--	--	--
			1.8	3400	24.9	7.2	--	--	--	--
MAY 22, 72	1605	2	.3	980	28.2	7.9	8.3	105	--	--
			.9	1300	28.2	8.0	8.6	109	--	--
JUN 13, 72	1137	2	.3	2900	28.0	7.9	7.0	90	--	28
			1.2	3200	28.0	7.9	7.0	90	--	--
JUL 19, 72	1130	2	.3	--	30.0	8.3	--	--	--	25
			.9	--	29.9	8.3	--	--	--	--
AUG 22, 72	1315	2	.3	750	31.0	--	7.8	104	--	36
			1.5	800	29.8	--	6.5	86	--	--
JAN 16, 73	1043	2	.3	10000	13.3	8.0	12.7	124	--	170
			2.0	12000	13.7	8.0	13.8	137	--	--
APR 09, 73	1459	2	.3	6800	18.2	8.0	9.3	100	--	33
			.6	6800	18.1	8.0	9.4	101	--	--
JUN 04, 73	1455	2	.3	7000	28.7	7.8	7.0	92	--	63
			1.2	8000	28.5	8.3	7.0	92	--	--
JUN 15, 73	1035	2	.3	120	24.7	8.0	5.1	61	--	11

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

WATER YEARS 1972 AND 1973--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 606 CONTINUED					
JUN 15, 73	1035	2	1.2	120	24.7	7.9	5.2	62	--	--
JUN 18, 73	1120	2	.3	130	28.4	--	5.0	63	--	32
			1.5	130	28.4	--	5.2	66	--	--
JUN 22, 73	1055	2	.3	450	25.5	7.3	3.7	45	--	30
			.9	450	25.5	7.2	3.9	47	--	--
JUL 03, 73	1030	2	.3	1100	29.7	7.0	6.2	81	--	53
			.9	1200	29.8	7.1	6.6	87	--	--
					LINE 610					
APR 18, 72	1350	2	.6	8100	26.7	8.2	8.6	109	--	48
MAY 17, 72	0955	2	.3	370	25.1	6.6	--	--	--	36
			1.2	370	24.8	6.5	--	--	--	--
MAY 22, 72	1500	2	.3	1300	28.2	7.4	7.5	95	--	--
			1.2	1300	28.1	7.5	7.2	91	--	--
JUN 13, 72	1100	2	.3	1500	28.2	7.9	7.1	90	--	--
			.9	1500	28.2	7.9	7.5	95	--	--
JUL 19, 72	1220	2	.3	--	30.3	8.2	--	--	--	76
			.9	--	30.1	8.1	--	--	--	--
AUG 22, 72	1247	2	.3	1400	30.8	--	7.2	96	--	56
			.9	1400	30.6	--	6.8	91	--	--
JAN 16, 73	1225	2	.3	16000	16.1	8.1	13.3	140	--	71
			.6	16000	16.2	8.1	14.2	149	--	--
APR 09, 73	1415	2	.3	2300	16.3	7.7	8.6	88	--	13
			.6	2300	16.3	7.7	9.1	93	--	--
JUN 04, 73	1406	2	.3	2100	28.2	8.2	7.5	96	--	53
			1.5	2000	28.0	8.6	7.7	99	--	--
JUN 18, 73	1150	2	.3	120	28.5	--	5.2	67	--	41
			2.1	120	28.4	--	5.4	68	--	--
JUN 22, 73	1145	2	.3	340	26.2	7.0	3.9	48	--	43
			1.1	340	26.2	7.0	3.9	48	--	--
JUL 03, 73	1125	2	.3	650	30.5	6.8	7.0	92	--	56
			1.2	650	30.5	6.9	7.1	93	--	--
					LINE 617					
APR 18, 72	1425	2	.3	12000	26.4	8.0	7.5	95	--	56
			.9	12000	26.5	8.0	7.2	92	--	--
MAY 17, 72	0940	2	.3	680	25.3	6.9	--	--	--	38
			1.2	630	24.9	6.7	--	--	--	--
			2.1	700	24.7	6.6	--	--	--	--
MAY 22, 72	1515	2	.3	1000	28.6	7.4	7.5	96	--	--
			.9	1100	28.5	7.5	7.5	96	--	--
JUN 13, 72	1055	2	.3	860	27.9	7.8	7.4	94	--	48
			2.1	860	27.9	7.8	7.4	94	--	--
JUL 19, 72	1210	2	.3	--	30.0	8.0	--	--	--	38
			1.5	--	29.8	8.1	--	--	--	--
AUG 22, 72	1240	2	.3	1500	30.5	--	6.4	84	--	43

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

WATER YEARS 1972 AND 1973--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 617 CONTINUED					
AUG 22, 72	1240	2	1.2	1500	30.5	--	6.6	87	--	--
JAN 16, 73	1147	2	.3	22000	15.5	8.1	14.2	153	--	74
			1.2	24000	15.6	8.1	14.2	153	--	--
APR 09, 73	1424	2	.3	4100	17.9	8.0	10.0	106	--	43
			.6	3900	17.9	8.0	10.1	107	--	--
JUN 04, 73	1411	2	.3	1800	28.1	7.8	7.2	91	--	43
			1.2	1700	28.0	8.0	7.2	91	--	--
JUN 18, 73	1155	2	.3	120	28.6	--	4.7	60	--	41
			1.8	120	28.6	--	5.0	64	--	--
JUN 22, 73	1135	2	.3	240	26.4	7.0	3.6	44	--	46
			1.1	240	26.3	7.0	3.6	44	--	--
JUL 03, 73	1135	2	.3	600	30.4	6.7	6.2	82	--	47
			.9	600	30.4	6.7	6.2	82	--	--
					LINE 902					
SEP 21, 72	1800	49	.3	50000	29.3	8.2	8.8	140	0	--
			3.0	51000	29.1	8.2	8.1	128	0	--
			6.1	51000	28.9	8.2	8.1	128	0	--
			9.1	51000	28.9	8.2	8.3	131	0	--
			12.2	51000	29.0	8.1	7.5	119	10	--
					LINE 910					
SEP 21, 72	1725	49	.3	50000	29.0	8.2	8.3	132	10	--
			3.0	51000	28.8	8.2	8.7	138	10	--
			6.1	52000	28.8	8.2	8.3	132	10	--
			9.1	52000	28.8	8.2	7.8	124	10	--
			12.2	52000	28.7	8.2	7.7	122	10	--
			15.2	52000	28.8	8.1	6.5	103	10	--
			19.8	52000	28.8	8.1	6.7	106	10	--

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

WATER YEARS 1972 AND 1973

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)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 17						
FEB 23, 72	1510	2	.3	18.0	.1	.00	.00	.00	.14	8.3	--	--
			4.6	19.0	.2	.02	.00	.00	.08	3.0	--	--
APR 18, 72	1100	2	.3	20.0	.1	.03	.03	.02	.08	4.7	--	--
			5.0	20.0	.1	.11	.04	.03	.10	3.3	--	--
JUN 13, 72	1015	2	.3	25.0	.3	.00	.01	.06	.09	2.2	--	--
			4.0	26.0	.4	.07	.02	.12	.20	4.5	--	--
AUG 22, 72	1150	2	.3	23.0	.0	.01	.00	.03	.07	.2	--	--
			3.0	25.0	.0	.02	.00	.07	.11	.2	--	--
SEP 22, 72	0925	2	.3	27.0	.0	.00	.00	.17	.17	2.2	3.0	--
			3.4	28.0	.0	.00	.00	.10	.14	2.2	9.0	--
OCT 12, 72	1235	2	.3	23.0	.0	.00	.00	.00	.07	2.3	20.0	--
			3.4	20.0	.0	.39	.00	.11	.11	1.6	--	--
JAN 16, 73	1000	2	.3	15.0	1.1	.17	.01	.16	.16	1.4	--	--
			3.4	8.4	.1	.64	.03	.12	.13	3.9	--	--
APR 09, 73	1340	2	.3	13.0	.2	.13	.03	.10	.16	2.3	--	--
			3.7	13.0	.5	.14	.03	.10	.18	2.7	--	--
JUN 04, 73	1330	2	.3	22.0	.0	.04	.00	.04	.07	3.0	3.0	8.0
			3.5	22.0	.0	.09	.00	.05	.08	1.0	--	--
JUN 22, 73	1330	2	4.0	9.4	.2	.06	.00	.05	.20	1.6	--	--
JUL 03, 73	1315	2	.3	23.0	.0	.01	.00	.01	.06	2.5	--	--
						LINE 22						
FEB 23, 72	1450	2	.3	12.0	.1	.00	.00	.00	.11	6.6	--	--
			3.4	13.0	.1	.02	.00	.00	.07	2.9	--	--
APR 18, 72	1010	2	.3	18.0	.3	.09	.05	.13	.15	3.1	--	--
			3.4	19.0	.3	.12	.05	.19	.19	2.8	--	--
JUN 13, 72	0955	2	.3	18.0	.4	.14	.08	.14	.17	2.9	--	--
			3.7	20.0	.5	.19	.11	.18	.25	3.4	--	--
AUG 22, 72	1130	2	.3	22.0	.1	.04	.02	.18	.21	.1	--	--
			2.7	22.0	.1	.19	.02	.18	.20	.4	--	--
SEP 22, 72	0845	2	.3	44.0	.1	.12	.00	.14	.17	2.1	23.0	10.0
			2.4	44.0	.1	.09	.00	.15	.15	1.9	--	--
OCT 12, 72	1150	2	.3	30.0	.0	.00	.00	.09	.11	2.2	33.0	--
			2.7	28.0	.0	.37	.01	.13	.13	1.6	--	--
JAN 16, 73	0930	2	.3	13.0	1.5	.16	.01	.12	.18	2.8	--	--
			2.7	13.0	1.5	.16	.01	.12	.18	1.5	--	--
APR 09, 73	1315	2	.3	12.0	.8	.20	.03	.10	.23	3.9	--	--
			3.4	11.0	.8	.20	.04	.10	.24	4.3	--	--
JUN 04, 73	1305	2	.3	21.0	.0	.05	.00	.07	.12	2.0	3.0	14.0
			3.0	20.0	.0	.06	.01	.07	.16	2.1	--	--
JUN 22, 73	1315	2	3.7	7.5	.2	.10	.01	.05	.20	1.1	--	--
JUL 03, 73	1215	2	.3	19.0	.1	.12	.01	.03	.06	2.7	--	--
						LINE 55						
JUN 15, 73	1125	2	.3	5.1	.2	.04	.03	.06	.10	1.3	--	--

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

WATER YEARS 1972 AND 1973--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)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 55 CONTINUED						
JUN 18, 73	1235	2	.3	7.8	.2	.04	.02	.07	.08	.9	--	--
						LINE 65						
FEB 23, 72	1400	2	.3	9.5	.4	.14	.00	.00	.09	4.1	--	--
			3.7	9.4	.1	.14	.00	.00	.10	3.6	--	--
APR 18, 72	1150	2	.3	11.0	.0	.02	.00	.02	.05	2.7	30.0	--
			4.0	5.2	.1	--	--	--	--	2.3	36.0	--
MAY 08, 72	1415	2	.3	5.2	.4	--	--	--	--	--	--	--
MAY 08, 72	1500	2	.3	5.1	.5	--	--	--	--	--	--	--
MAY 17, 72	0915	2	.3	11.0	.4	.13	.01	.14	.14	2.6	--	--
MAY 22, 72	1530	2	.3	15.0	.1	.06	.00	.06	.13	2.5	--	--
JUN 13, 72	1120	2	.3	3.4	.0	.04	.00	.09	.16	2.9	17.0	--
			4.6	23.0	.0	.03	.00	.05	.10	2.6	18.0	--
AUG 22, 72	1300	2	.3	20.0	.0	.00	.00	.06	.09	1.0	23.0	--
			3.0	20.0	.0	.00	.08	.07	.09	.2	22.0	--
SEP 22, 72	1010	2	.3	35.0	.0	.00	.00	.10	.10	2.7	18.0	--
			3.4	21.0	.0	.17	.00	.10	.10	2.0	11.0	--
OCT 12, 72	1325	2	.3	23.0	.0	.00	.00	.00	.00	2.1	38.0	--
			2.7	13.0	.0	.00	.00	.00	.06	2.1	33.0	--
JAN 16, 73	1107	2	.3	11.0	.8	.17	.01	.13	.14	2.3	--	--
			3.4	4.2	.1	.12	.00	.00	.06	2.7	--	--
APR 09, 73	1435	2	.3	11.0	.4	.12	.05	.10	.13	2.2	--	--
			3.0	12.0	.3	.11	.05	.10	.13	2.0	--	--
JUN 04, 73	1425	2	.3	13.0	.0	.05	.00	.05	.07	1.0	6.0	12.0
			4.0	12.0	.0	.04	.00	.06	.06	1.0	4.0	15.0
JUL 03, 73	1115	2	.3	17.0	.0	.07	.01	.04	.06	1.9	--	--
						LINE 85						
JUN 15, 73	0940	1	.3	5.1	.5	.11	.01	.02	.20	1.3	--	--
JUN 18, 73	1030	1	.3	6.2	.2	.10	.02	.06	.06	1.4	--	--
JUL 03, 73	0945	1	.3	13.0	.1	.04	.01	.07	.11	2.3	--	--
FEB 23, 72	1245	3	.3	6.0	.4	.06	.00	.00	.13	4.2	--	--
			1.5	7.6	.5	.10	.00	.00	.17	4.4	--	--
APR 18, 72	1535	3	.3	5.0	.0	.09	.00	.02	.08	2.6	--	--
			1.8	5.3	.0	.04	.00	.02	.10	3.2	45.0	--
JUN 13, 72	0855	3	.3	10.0	.1	.00	.00	.08	.10	2.3	--	--
			1.5	10.0	.1	.06	.00	.07	.12	2.2	--	--
AUG 22, 72	1025	3	.3	15.0	.0	.03	.00	.09	.10	1.2	--	--
			1.5	15.0	.0	.03	.00	.10	.11	1.0	--	--
SEP 22, 72	1055	3	.3	14.0	.0	.00	.00	.06	.06	2.7	--	--
			1.5	14.0	.0	.00	.00	.06	.06	2.8	--	--
OCT 12, 72	1055	3	.3	13.0	.0	.00	.00	.07	.07	1.8	--	--
			1.2	14.0	.0	.00	.00	.00	.00	2.5	--	--
JAN 16, 73	1322	3	.3	3.5	.0	.00	.00	.00	.02	2.4	--	--

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

WATER YEARS 1972 AND 1973--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)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 85 CONTINUED						
JAN 16, 73	1322	3	1.2	3.1	.0	.02	.00	.00	.03	2.1	--	--
APR 09, 73	1535	3	.3	8.4	.2	.00	.03	.00	.07	1.7	--	--
			1.5	7.1	.1	.02	.02	.00	.11	1.1	--	--
JUN 15, 73	0855	4	.3	5.4	.2	.06	.02	.01	.06	1.5	--	--
JUN 18, 73	0955	4	.3	7.8	.2	.09	.02	.07	.10	1.9	--	--
JUL 03, 73	0925	4	.3	14.0	.1	.08	.00	.09	.15	1.4	--	--
						LINE 90						
FEB 23, 72	1225	3	.3	4.2	.3	.03	.00	.00	.09	4.6	43.0	--
			2.4	4.5	.3	.09	.00	.00	.09	4.8	41.0	--
APR 18, 72	1730	3	.5	1.2	.0	.21	.00	.03	.05	2.3	32.0	--
			3.2	1.2	.0	.19	.00	.02	.05	2.2	43.0	--
JUN 13, 72	0825	3	.3	11.0	.0	.00	.00	.09	.11	2.7	30.0	--
			3.4	11.0	.1	.02	.00	.09	.11	2.2	30.0	--
AUG 22, 72	0925	3	.3	12.0	.0	.03	.00	.06	.07	.5	34.0	--
			2.7	12.0	.1	.00	.00	.08	.10	.2	37.0	--
JAN 16, 73	1400	3	.3	2.6	.0	.06	.00	.00	.02	2.6	--	--
			2.6	2.1	.0	.00	.00	.00	.04	1.6	--	--
APR 09, 73	1610	3	.3	7.6	.0	.00	.03	.00	.04	2.3	--	--
			2.7	4.7	.1	.03	.01	.00	.08	1.9	--	--
JUN 22, 73	0940	3	.3	12.0	.1	.13	.01	.10	.11	.8	--	--
			3.0	12.0	.2	.08	.01	.10	.25	1.2	--	--
						LINE 108						
MAR 27, 72	1235	2	.3	3.1	.0	.17	.01	.19	.19	2.7	--	--
			12.2	2.3	.0	.46	.01	.12	.12	2.0	--	--
						LINE 129						
FEB 23, 72	1315	2	.3	.7	.1	.02	.00	.00	.05	4.0	--	--
			2.4	.9	.1	.00	.00	.00	.05	3.9	--	--
APR 18, 72	1115	2	.3	2.0	.0	.25	.00	.01	.01	2.9	--	--
			2.1	1.9	.0	.26	.00	.02	.03	2.5	--	--
JUN 13, 72	1430	2	.3	8.2	.3	.02	.00	.06	.08	2.6	--	--
			3.0	9.6	.1	.06	.00	.08	.09	2.4	--	--
AUG 23, 72	0000	2	.3	8.2	.0	.00	.00	.04	.05	.5	--	--
			2.4	7.6	.0	.00	.00	.03	.05	1.5	--	--
JAN 17, 73	1205	2	.3	1.2	.0	.03	.00	.00	.02	1.1	--	--
			2.4	1.2	.0	.04	.00	.00	.02	1.7	--	--
APR 11, 73	1030	2	.3	7.8	.4	.02	.03	.00	.06	2.8	--	--
			3.0	6.8	.0	.06	.02	.00	.06	2.3	--	--
						LINE 143						
OCT 12, 72	0935	1	.3	4.5	.0	.00	.00	.00	.00	1.8	--	--
JUN 06, 73	1220	1	.3	1.2	.0	.02	.00	.00	.01	1.4	--	--
FEB 23, 72	1408	3	.5	2.8	.1	.02	.00	.00	.21	4.4	45.0	--

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

WATER YEARS 1972 AND 1973--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)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	TOTAL ORGANIC CARBON (MG/L)
					LINE 143 CONTINUED							
FEB 23, 72	1408	3	1.2	2.8	.1	.00	.00	.00	.23	5.3	54.0	--
APR 18, 72	1651	3	.5	.9	.0	.19	.00	.01	.04	2.3	30.0	--
			2.3	1.1	.0	.17	.00	.02	.15	3.7	40.0	--
APR 19, 72	1000	3	.5	1.9	.0	.22	.00	.01	.03	2.1	--	--
			1.8	1.5	.0	.16	.00	.01	.04	2.2	--	--
JUN 13, 72	1130	3	.3	7.1	.1	.00	.00	.06	.09	2.9	28.0	--
			1.8	6.8	.1	.02	.00	.06	.08	2.8	26.0	--
AUG 22, 72	1535	3	.3	7.7	.0	.00	.00	.02	.04	1.2	22.0	--
			1.5	7.5	.0	.03	.00	.03	.04	1.3	23.0	--
OCT 12, 72	0955	3	.3	4.8	.0	.00	.00	.00	.00	1.7	--	--
JAN 17, 73	1130	3	.3	.1	.0	.00	.00	.00	.01	.8	--	--
			1.5	.1	.0	.00	.00	.00	.01	1.1	--	--
APR 11, 73	0950	3	.3	5.6	.0	.00	.01	.00	.04	2.3	--	--
			1.5	5.7	.0	.00	.01	.00	.03	2.1	--	--
JUN 06, 73	1200	3	.3	1.2	.0	.01	.00	.00	.02	2.7	--	--
					LINE 150							
FEB 23, 72	1338	4	.5	.8	.1	.00	.00	.00	.05	4.4	37.0	--
			10.1	1.1	.1	.03	.00	.00	.10	3.9	69.0	--
APR 18, 72	1625	4	.5	.8	.0	.16	.00	.01	.03	2.4	32.0	--
			11.3	1.0	.0	.20	.00	.02	.02	1.7	29.0	--
JUN 13, 72	1220	4	.5	6.0	.1	.06	.00	.04	.06	2.3	18.0	--
			10.7	2.5	.1	.06	.02	.05	.06	1.6	20.0	--
AUG 22, 72	1625	4	.3	7.6	.0	.00	.00	.02	.05	1.8	22.0	--
			11.0	1.2	.0	.03	.00	.03	.04	3.0	25.0	--
SEP 22, 72	0810	4	.3	2.1	.0	.07	.00	.00	.04	3.0	16.0	14.0
			10.7	.0	.0	.15	.00	.00	.07	2.4	13.0	8.0
JAN 16, 73	0935	4	.3	2.7	.0	.01	.00	.00	.02	1.5	--	--
			11.3	1.9	.0	.00	.00	.00	.04	1.6	--	--
JUN 06, 73	1425	4	.3	2.0	.0	.02	.01	.01	.04	1.6	21.0	12.0
			11.0	.7	.0	.06	.01	.00	.13	1.3	--	7.5
					LINE 175							
FEB 23, 72	1502	2	.3	.4	.0	.00	.00	.00	.03	2.9	--	--
			1.2	.8	.0	.00	.00	.00	.03	2.8	--	--
					LINE 180							
APR 19, 72	1032	2	.3	1.4	.0	.16	.00	.01	.02	1.8	--	--
			1.8	1.2	.0	.20	.00	.01	.05	1.6	--	--
JUN 13, 72	1054	2	.3	6.2	.1	.29	.00	.04	.07	3.2	--	--
			1.5	6.4	.1	.33	.00	.06	.06	3.2	--	--
AUG 22, 72	1430	2	.3	6.5	.0	.01	.00	.02	.03	1.6	--	--
			1.5	6.0	.0	.00	.00	.03	.04	2.8	--	--
JAN 17, 73	1021	2	.3	.2	.0	.01	.00	.00	.01	1.4	--	--
			1.2	.3	.0	.00	.00	.00	.01	1.8	--	--
APR 11, 73	0850	2	.3	3.5	.0	.04	.00	.00	.02	1.3	--	--

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

WATER YEARS 1972 AND 1973--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)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 180 CONTINUED						
APR 11, 73	0850	2	1.5	4.5	.0	.03	.01	.00	.04	1.2	--	--
						LINE 200						
FEB 24, 72	1100	5	.6	.2	.0	.00	.00	.00	.02	2.3	30.0	--
JUN 14, 72	1028	5	.3	2.5	.1	.01	.00	.02	.03	2.2	--	--
AUG 22, 72	1335	5	.3	4.4	.0	.00	.00	.01	.03	1.1	--	--
JAN 16, 73	1110	5	.3	.5	.0	.00	.00	.00	.02	2.1	--	--
			2.1	.3	.0	.00	.00	.00	.02	1.9	--	--
APR 11, 73	0935	5	.6	3.5	.0	.00	.00	.00	.01	1.1	--	--
						LINE 210						
OCT 12, 72	1015	2	.3	.0	.0	.00	.00	.00	.00	1.9	--	--
			11.6	.0	.0	.00	.00	.00	.00	2.1	--	--
JUN 06, 73	1540	2	.3	.9	.0	.01	.00	.00	.00	.8	--	--
			11.6	.7	.0	.04	.01	.00	.07	.8	--	--
						LINE 224						
FEB 23, 72	0830	2	.6	4.1	.2	.00	.00	.00	.08	4.7	35.0	--
JUN 13, 72	1400	2	.3	13.0	.1	.06	.00	.08	.09	3.3	28.0	--
AUG 23, 72	0930	2	.3	15.0	.0	.00	.00	.06	.07	2.1	24.0	--
OCT 11, 72	1800	2	.3	19.0	.0	.00	.00	.00	.00	3.8	52.0	--
JUN 05, 73	1445	2	.3	6.9	.1	.01	.00	.01	.07	2.5	15.0	12.0
						LINE 235						
JUN 15, 73	1440	2	.3	8.1	.5	.11	.03	.09	.18	1.9	--	--
						LINE 249						
FEB 23, 72	0906	2	.3	.2	.0	.04	.00	.00	.02	2.1	--	--
			1.5	.1	.0	.03	.00	.00	.02	2.0	37.0	--
JUN 12, 72	1640	2	.5	5.1	.0	.13	.00	.03	.06	3.2	--	--
			2.4	4.7	.0	.21	.00	.03	.05	2.8	--	--
AUG 21, 72	1520	2	.3	4.9	.1	.00	.00	.01	.03	.3	--	--
			2.1	4.4	.0	.00	.00	.01	.02	.2	--	--
OCT 11, 72	1400	2	.3	2.8	.0	.00	.00	.00	.00	2.2	--	--
			1.8	3.4	.0	.00	.00	.00	.00	2.0	--	--
JAN 15, 73	1555	2	.3	1.1	.0	.00	.00	.00	.01	1.8	--	--
			1.5	1.2	.0	.00	.00	.00	.01	1.6	--	--
APR 10, 73	1345	2	.3	3.8	.0	.05	.00	.00	.04	1.5	--	--
			1.5	3.3	.0	.00	.00	.00	.03	1.3	--	--
JUN 05, 73	1705	2	.6	1.3	.0	.00	.00	.00	.03	1.3	--	--
			1.8	.3	.0	.00	.00	.00	.03	1.2	--	--
						LINE 254						
OCT 11, 72	1600	2	.3	21.0	.0	.02	.01	.08	.11	3.3	44.0	--

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

WATER YEARS 1972 AND 1973--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)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 254 CONTINUED						
OCT 11, 72	1600	2	1.8	18.0	.0	.23	.01	.00	.07	2.1	49.0	--
JUN 05, 73	1215	2	.3	9.0	.3	.05	.02	.02	.10	2.0	11.0	14.0
			3.4	9.1	.2	.07	.01	.02	.11	.5	10.0	14.0
JUN 15, 73	1555	2	.3	8.2	.5	.08	.04	.10	.15	1.5	--	--
JUN 18, 73	1540	2	.3	13.0	.2	.08	.03	.10	.15	1.4	--	--
JUN 22, 73	1755	2	.3	7.5	.4	.17	.01	.11	.16	1.3	--	--
			3.7	7.6	.5	.14	.01	.11	.24	1.9	--	--
						LINE 258						
FEB 22, 72	1710	2	.6	1.8	.2	.00	.00	.00	.08	3.3	41.0	--
APR 17, 72	1825	2	.9	4.3	.0	.03	.00	.03	.03	3.6	38.0	--
JUN 12, 72	1245	2	.3	12.0	.1	.03	.00	.06	.10	4.0	40.0	--
AUG 23, 72	1730	2	.3	14.0	.0	.01	.00	.09	.11	3.4	32.0	--
JAN 16, 73	1619	2	.3	4.9	.3	.18	.01	.06	.10	3.0	--	--
APR 10, 73	1630	2	.3	6.7	.0	.00	.02	.00	.06	4.3	--	--
JUN 15, 73	1620	2	.3	8.4	.9	.11	.03	.10	.15	1.7	--	--
JUN 18, 73	1600	2	.3	12.0	.3	.06	.03	.14	.15	1.5	--	--
						LINE 264						
OCT 11, 72	1635	2	.3	6.3	.0	.00	.00	.00	.00	2.7	30.0	--
			.9	6.6	.0	.00	.00	.00	.00	2.0	--	--
JUN 05, 73	1255	2	.3	2.1	.1	.11	.02	.02	.08	.9	13.0	26.0
			1.5	2.8	.2	.11	.02	.01	.09	1.3	--	--
JUN 15, 73	1635	2	.3	8.1	1.0	.14	.01	.08	.18	1.9	--	--
JUN 18, 73	1610	2	.3	9.2	.4	.08	.01	.12	.13	1.7	--	--
JUN 22, 73	1715	2	.3	11.0	.3	.05	.00	.17	.19	1.2	--	--
			1.4	5.7	.3	.26	.02	.07	.11	.7	--	--
						LINE 284						
FEB 22, 72	1140	1	.3	1.2	.0	.09	.00	.00	.03	2.5	--	--
			1.2	2.5	.0	.06	.00	.00	.03	2.5	--	--
APR 17, 72	1755	1	.3	1.8	.0	.03	.00	.01	.04	2.9	--	--
			1.5	2.0	.0	.07	.00	.01	.05	3.0	--	--
JUN 12, 72	1157	1	.3	6.8	.0	.28	.00	.04	.06	2.6	--	--
			1.5	7.7	.0	.28	.00	.05	.06	2.2	--	--
AUG 21, 72	1108	1	.3	4.7	.0	.01	.00	.05	.06	1.6	--	--
			1.2	4.5	.0	.00	.00	.05	.07	2.9	--	--
JAN 15, 73	1202	1	.3	2.0	.0	.06	.00	.00	.02	1.0	--	--
			.8	.7	.0	.02	.00	.00	.02	1.0	--	--
APR 10, 73	0850	1	.6	4.1	.0	.06	.00	.00	.07	.9	--	--
			1.2	3.2	.0	.03	.00	.00	.06	1.1	--	--
FEB 22, 72	1206	3	.3	.2	.0	.04	.00	.00	.03	1.8	--	--

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

WATER YEARS 1972 AND 1973--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)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 284 CONTINUED						
FEB 22, 72	1206	3	1.8	.7	.0	.01	.00	.00	.04	2.0	--	--
APR 17, 72	1630	3	.3	1.4	.0	.10	.00	.02	.06	2.3	--	--
			2.4	1.6	.0	.04	.00	.02	.07	2.4	--	--
JUN 12, 72	1247	3	.3	5.8	.1	.26	.00	.04	.06	2.6	--	--
			2.1	6.5	.1	.21	.00	.04	.06	2.5	--	--
AUG 21, 72	1043	3	.3	4.1	.0	.03	.00	.03	.04	1.2	--	--
			1.8	4.0	.0	.15	.00	.03	.04	1.4	--	--
JAN 15, 73	1225	3	.3	1.5	.0	.04	.00	.00	.02	1.1	--	--
			1.5	1.1	.0	.00	.00	.00	.01	.6	--	--
APR 10, 73	0915	3	.3	2.4	.0	.03	.00	.00	.04	1.4	--	--
			1.5	3.4	.0	.06	.00	.00	.04	1.5	--	--
						LINE 300						
JUN 18, 72	1640	3	.3	3.7	.0	.00	.00	.02	.05	2.9	--	--
			1.5	3.7	.0	.00	.00	.02	.05	2.6	--	--
						LINE 333						
FEB 22, 72	1405	1	.3	.1	.0	.00	.00	.00	.04	3.4	--	--
			1.2	.1	.0	.00	.00	.00	.03	3.4	--	--
APR 19, 72	1130	1	.3	1.2	.0	.10	.00	.02	.04	2.6	--	--
			1.7	1.5	.0	.08	.00	.02	.09	3.2	--	--
JUN 12, 72	1550	1	.3	3.6	.0	.04	.00	.05	.09	2.8	--	--
			1.4	3.6	.0	.00	.00	.05	.09	3.2	--	--
AUG 23, 72	1410	1	.3	5.1	.0	.04	.00	.08	.12	8.6	--	--
			1.5	5.9	.0	.04	.00	.33	.44	9.0	--	--
OCT 11, 72	1305	1	.3	4.0	.0	.00	.00	.00	.06	1.9	27.0	14.0
			1.5	6.4	.0	.15	.00	.00	.07	1.7	26.0	16.0
JAN 15, 73	1425	1	.3	1.1	.0	.04	.00	.00	.03	1.4	--	--
			1.2	1.1	.0	.00	.00	.00	.03	1.2	--	--
APR 10, 73	1320	1	.3	7.7	.1	.00	.02	.02	.12	2.1	--	--
			1.2	7.5	.3	.02	.02	.04	.14	2.4	--	--
JUN 05, 73	0845	1	.3	1.6	.0	.07	.00	.00	.06	1.2	--	7.5
			1.5	1.7	.1	.06	.00	.05	.07	.7	2.0	7.5
						LINE 350						
JUN 12, 72	1438	1	.3	3.8	.0	.12	.01	.03	.05	2.2	--	--
			1.5	3.8	.0	.20	.00	.07	.07	3.2	--	--
AUG 21, 72	1317	1	.3	3.8	.0	.04	.00	.01	.04	2.6	--	--
			1.5	3.5	.0	.00	.00	.03	.05	8.2	--	--
JAN 15, 73	1415	1	.3	.7	.0	.00	.00	.00	.02	1.2	--	--
			1.8	.8	.0	.00	.00	.00	.01	1.0	--	--
APR 10, 73	1100	1	.6	4.1	.0	.06	.00	.00	.04	1.1	--	--
			3.0	4.4	.0	.02	.00	.00	.05	1.4	--	--
FEB 22, 72	1430	3	.3	.4	.0	.02	.00	.00	.03	2.5	--	--
			1.5	.5	.0	.03	.00	.00	.03	2.3	--	--
JUN 12, 72	1407	3	.3	3.6	.0	.17	.00	.04	.06	2.1	--	--

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

WATER YEARS 1972 AND 1973--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)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 350 CONTINUED						
JUN 12, 72	1407	3	2.6	3.5	.0	.25	.00	.05	.06	2.4	--	--
AUG 21, 72	1255	3	.3	4.1	.0	.01	.00	.02	.04	1.4	--	--
			2.4	4.5	.0	.02	.00	.04	.05	.6	--	--
JAN 15, 73	1345	3	.3	2.2	.0	.07	.00	.03	.04	1.4	--	--
			2.1	1.2	.0	.13	.00	.00	.02	1.1	--	--
APR 10, 73	1025	3	.6	4.0	.0	.06	.00	.00	.05	.9	--	--
			1.8	2.8	.0	.07	.00	.00	.06	.8	--	--
						LINE 363						
FEB 22, 72	1453	1	.3	.1	.0	.05	.00	.00	.02	1.3	--	--
			2.1	.0	.0	.05	.00	.00	.02	2.3	--	--
JUN 12, 72	1504	1	.3	2.2	.0	.21	.01	.02	.04	2.1	--	--
			1.2	2.2	.2	.25	.01	.02	.03	2.3	--	--
AUG 21, 72	1345	1	.3	3.4	.0	.01	.00	.01	.02	.3	--	--
			2.7	2.1	.0	.00	.00	.04	.05	.6	--	--
OCT 11, 72	1230	1	.3	.0	.0	.00	.00	.00	.00	1.8	--	--
			2.4	.0	.0	.00	.00	.00	.00	1.8	--	--
JAN 15, 73	1435	1	.3	1.2	.0	.00	.00	.00	.01	1.1	--	--
			1.4	.8	.0	.00	.00	.00	.02	1.1	--	--
APR 10, 73	1125	1	.6	2.5	.0	.00	.00	.00	.04	1.7	--	--
			2.7	4.9	.0	.05	.00	.00	.05	1.1	--	--
JUN 05, 73	1550	1	.3	.3	.0	.01	.00	.00	.02	.8	--	--
			2.1	.6	.0	.05	.00	.00	.02	.5	--	--
FEB 22, 72	1535	3	.3	.1	.0	.05	.00	.00	.02	1.0	--	--
			2.7	.0	.0	.00	.00	.00	.03	1.6	--	--
JUN 12, 72	1535	3	.5	3.6	.0	.19	.01	.02	.04	2.5	--	--
			3.4	3.1	.1	.23	.02	.07	.08	1.9	--	--
AUG 21, 72	1415	3	.3	2.6	.0	.00	.00	.00	.02	.1	--	--
			3.0	1.9	.0	.00	.00	.03	.04	1.1	--	--
OCT 11, 72	1300	3	.3	1.8	.0	.00	.00	.00	.00	1.6	--	--
			3.4	1.5	.0	.00	.00	.00	.00	1.2	--	--
JAN 15, 73	1500	3	.3	1.4	.0	.08	.00	.00	.02	1.2	--	--
			3.0	.9	.0	.00	.00	.00	.02	2.0	--	--
APR 10, 73	1205	3	.6	1.9	.0	.04	.00	.00	.03	1.1	--	--
			3.0	1.8	.0	.04	.00	.00	.05	1.0	--	--
JUN 05, 73	1610	3	.6	1.0	.0	.01	.00	.00	.04	.9	--	--
			3.0	1.2	.0	.03	.01	.00	.04	.5	--	--
FEB 22, 72	1603	5	.5	.4	.0	.05	.00	.00	.02	2.4	--	--
			2.7	.1	.0	.00	.00	.00	.02	2.5	41.0	--
JUN 12, 72	1607	5	.5	3.2	.0	.29	.00	.02	.03	2.2	18.0	--
			4.0	2.9	.0	.16	.00	.04	.04	1.8	14.0	--
AUG 21, 72	1445	5	.3	3.5	.0	.00	.00	.01	.02	.6	17.0	--
			3.4	3.0	.0	.02	.00	.02	.03	.4	8.0	--
OCT 11, 72	1330	5	.3	1.6	.0	.00	.00	.00	.00	1.6	21.0	--
			3.4	2.0	.0	.00	.00	.00	.00	1.4	24.0	--
JAN 15, 73	1530	5	.3	.9	.0	.00	.00	.00	.01	.8	--	--

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

WATER YEARS 1972 AND 1973--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)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 363 CONTINUED						
JAN 15, 73	1530	5	3.4	.3	.0	.02	.00	.00	.02	2.1	--	--
APR 10, 73	1235	5	.6	2.4	.0	.03	.00	.00	.03	1.1	--	--
			3.4	2.5	.0	.05	.00	.00	.04	1.1	--	--
JUN 05, 73	1640	5	.6	.7	.0	.08	.00	.00	.04	1.0	7.0	7.0
			2.7	.9	.0	.05	.00	.00	.04	.8	11.0	9.0
						LINE 375						
FEB 24, 72	0950	1	.3	.2	.0	.00	.00	.00	.01	1.7	--	--
			3.7	.2	.0	.00	.00	.00	.02	2.2	--	--
JUN 14, 72	1145	1	.3	.8	.1	.20	.01	.02	.03	1.2	--	--
			4.3	1.0	.0	.07	.01	.02	.05	1.2	--	--
AUG 22, 72	1005	1	.3	.8	.0	.00	.00	.01	.02	.2	--	--
			3.7	.5	.0	.00	.00	.01	.02	.1	--	--
OCT 11, 72	1525	1	.3	.3	.0	.00	.00	.00	.00	2.1	17.0	--
			3.4	.0	.0	.00	.00	.00	.00	2.1	19.0	--
JAN 16, 73	1210	1	.3	.3	.0	.00	.00	.00	.02	2.0	--	--
			3.4	.4	.0	.00	.00	.00	.02	1.7	--	--
APR 11, 73	1030	1	.6	2.2	.0	.00	.00	.00	.01	.8	--	--
			4.0	1.9	.0	.00	.00	.00	.02	1.0	--	--
JUN 06, 73	1800	1	.3	.7	.0	.00	.00	.00	.02	.9	--	8.0
			3.7	.6	.0	.01	.01	.00	.04	.5	31.0	13.0
FEB 24, 72	1025	3	.5	.2	.0	.00	.00	.00	.02	2.0	--	--
			2.4	.4	.0	.00	.00	.00	.02	2.1	--	--
JUN 14, 72	0950	3	.5	4.4	.0	.00	.00	.04	.04	1.9	--	--
			4.0	3.2	.1	.04	.01	.05	.06	1.6	--	--
AUG 22, 72	0925	3	.3	3.3	.0	.00	.00	.01	.03	1.1	--	--
			3.4	2.4	.0	.00	.00	.01	.02	.2	--	--
OCT 11, 72	1445	3	.3	2.1	.0	.00	.00	.00	.00	1.9	--	--
			3.4	1.5	.0	.00	.00	.00	.00	1.6	--	--
JAN 16, 73	1030	3	.3	.4	.0	.00	.00	.00	.01	1.1	--	--
			3.4	.9	.0	.00	.00	.00	.02	1.2	--	--
APR 11, 73	0900	3	.6	3.1	.0	.00	.00	.00	.02	.9	--	--
			3.4	2.1	.0	.00	.00	.00	.01	1.1	--	--
JUN 06, 73	1835	3	.3	.5	.0	.05	.00	.00	.02	.7	--	--
			3.7	.8	.0	.01	.00	.00	.04	.6	--	--
						LINE 382						
JUN 14, 72	1258	1	.3	.6	.0	.01	.01	.02	.03	1.3	14.0	--
			1.8	.6	.0	.07	.01	.02	.04	1.3	14.0	--
AUG 22, 72	1120	1	.3	.0	.0	.00	.00	.00	.01	.6	18.0	--
			1.2	.1	.0	.00	.00	.00	.01	.9	12.0	--
JAN 16, 73	1310	1	.3	1.0	.0	.00	.00	.00	.02	1.1	--	--
			1.8	.7	.0	.00	.00	.00	.02	1.1	--	--
FEB 24, 72	1025	2	4.3	.1	.0	.00	.00	.00	.02	1.7	35.0	--
JUN 14, 72	1335	4	.3	.6	.0	.02	.01	.02	.04	1.4	13.0	--
			3.7	.6	.0	.11	.01	.02	.04	1.1	18.0	--

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

WATER YEARS 1972 AND 1973--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)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 382 CONTINUED						
AUG 22, 72	1235	4	.3	2.5	.0	.00	.00	.02	.03	1.4	22.0	--
			4.0	.6	.0	.00	.00	.01	.02	.7	18.0	--
JAN 16, 73	1410	4	.3	.2	.0	.00	.00	.00	.02	1.4	--	--
			3.0	1.0	.0	.00	.00	.00	.02	1.5	--	--
						LINE 397						
FEB 24, 72	0920	2	.5	.0	.0	.05	.00	.00	.01	2.0	47.0	--
			15.2	.0	.0	.01	.00	.00	.01	1.9	40.0	--
JUN 14, 72	1215	2	.3	1.0	.1	.18	.02	.02	.05	1.1	14.0	--
			11.6	.9	.1	.22	.01	.02	.04	1.1	11.0	--
AUG 22, 72	1035	2	.3	.2	.0	.00	.00	.00	.01	.2	--	--
			13.1	.2	.0	.00	.00	.00	.01	.2	--	--
JAN 16, 73	1245	2	.3	1.0	.0	.04	.00	.00	.02	1.2	--	--
			12.5	1.0	.1	.01	.00	.00	.02	.7	--	--
APR 11, 73	1055	2	.3	1.1	.0	.00	.00	.00	.01	2.1	--	--
			11.6	1.6	.0	.00	.00	.00	.01	1.6	--	--
						LINE 600						
APR 18, 72	1450	2	1.2	9.2	.0	.10	.00	.01	.11	2.8	--	--
MAY 08, 72	1520	2	.3	6.2	.2	--	--	--	--	--	--	--
MAY 17, 72	1030	2	.3	10.0	.2	.19	.01	.07	.07	3.5	--	--
MAY 22, 72	1555	2	1.2	10.0	.2	.05	.00	.05	.10	2.1	--	--
JUN 15, 73	1020	2	.3	4.8	.0	.07	.03	.06	.10	1.2	--	--
JUN 18, 73	1110	2	.3	5.2	.2	.07	.02	.07	.07	.8	--	--
JUN 22, 73	1105	2	.8	13.0	.3	.10	.00	.08	.13	.9	--	--
JUL 03, 73	1015	2	.3	16.0	.1	.04	.00	.05	.08	2.0	--	--
						LINE 606						
MAY 08, 72	1515	2	.3	6.0	.5	--	--	--	--	--	--	--
MAY 17, 72	1020	2	.3	11.0	.3	.18	.02	.10	.10	3.6	--	--
MAY 22, 72	1605	2	.9	13.0	.2	.04	.00	.08	.16	2.8	--	--
JUN 22, 73	1055	2	.3	7.6	.1	.17	.00	.10	.10	1.0	--	--
						LINE 610						
APR 18, 72	1350	2	.6	11.0	.0	.06	.00	.02	.05	2.3	--	--
MAY 08, 72	1440	2	.3	4.7	.2	--	--	--	--	--	--	--
MAY 17, 72	0955	2	.3	9.0	.2	.14	.01	.10	.10	3.1	--	--
MAY 22, 72	1500	2	1.2	12.0	.2	.25	.00	.09	.14	1.9	--	--
JUN 18, 73	1150	2	.3	5.9	.1	.08	.02	.07	.08	.8	--	--
JUN 22, 73	1145	2	.3	9.8	.1	.37	.01	.13	.13	.7	--	--
JUL 03, 73	1125	2	.3	17.0	.0	.06	.01	.04	.07	1.3	--	--

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

WATER YEARS 1972 AND 1973--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)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 610 CONTINUED						
MAY 08, 72	1430	2	.3	7.8	.0	--	--	--	--	--	--	--
						LINE 617						
MAY 17, 72	0940	2	.3	10.0	.2	.16	.01	.10	.10	2.8	--	--
MAY 22, 72	1515	2	.9	13.0	.2	.16	.00	.08	.11	1.7	--	--
JUN 22, 73	1135	2	.3	8.6	.1	.20	.01	.11	.11	.8	--	--
						LINE 902						
SEP 21, 72	1800	49	.3	.0	.0	.06	.00	.00	.01	1.0	--	--
			12.2	.0	.0	.19	.00	.00	.03	2.2	--	--
						LINE 910						
SEP 21, 72	1725	49	.3	.0	.0	.04	.00	.00	.00	2.1	--	7.0
			19.8	.0	.0	.13	.01	.00	.02	1.9	4.0	--

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

WATER YEARS 1972 AND 1973

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM + POTASSIUM (NA+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 23, 72	1510	2	.3	830	--	--	--	--	--	--	--
			1.5	830	--	--	--	--	--	--	--
			3.0	870	--	--	--	--	--	--	--
			4.6	870	110.0	8.8	61	328	25	100	487
APR 18, 72	1100	2	.3	938	--	--	--	--	--	--	--
			5.0	1020	--	--	--	--	--	--	--
JUN 13, 72	1015	2	.3	750	97.0	7.0	58	330	21	72	444
			4.0	760	--	--	--	--	--	--	--
AUG 22, 72	1150	2	.3	740	97.0	7.3	52	316	19	74	428
			1.5	760	--	--	--	--	--	--	--
			3.0	760	--	--	--	--	--	--	--
SEP 22, 72	0925	2	.3	903	98.0	12.0	84	360	20	110	531
			3.4	1180	--	--	--	--	--	--	--
OCT 12, 72	1235	2	.3	1800	--	--	--	--	--	--	--
			1.5	1800	--	--	--	--	--	--	--
			2.1	7400	--	--	--	--	--	--	--
			3.4	10000	--	--	--	--	--	--	--
JAN 16, 73	1000	2	.3	1540	78.0	23.0	200	210	58	350	833
			3.4	18700	--	--	--	--	--	--	--
APR 09, 73	1340	2	.3	520	53.0	3.6	48	157	25	67	288
			1.5	520	--	--	--	--	--	--	--
			3.7	520	--	--	--	--	--	--	--
JUN 04, 73	1330	2	.3	813	98.0	5.0	64	322	27	79	454
			3.5	825	--	--	--	--	--	--	--
JUN 22, 73	1330	2	.3	220	--	--	--	--	--	--	--
			4.0	220	--	--	--	--	--	--	--
JUL 03, 73	1315	2	.3	780	--	--	--	--	--	--	--
			.9	780	--	--	--	--	--	--	--
			1.8	780	--	--	--	--	--	--	--
			3.4	800	--	--	--	--	--	--	--
						LINE 22					
FEB 23, 72	1450	2	.3	505	--	--	--	--	--	--	--
			3.4	513	58.0	6.2	37	188	15	56	278
APR 18, 72	1010	2	.3	942	--	--	--	--	--	--	--
			3.4	903	--	--	--	--	--	--	--
JUN 13, 72	0955	2	.3	585	68.0	6.9	48	226	20	66	341
			3.7	600	--	--	--	--	--	--	--
AUG 22, 72	1130	2	.3	531	56.0	6.0	53	184	31	66	325
			2.7	802	--	--	--	--	--	--	--
SEP 22, 72	0845	2	.3	639	--	--	--	--	--	--	--
			2.4	641	--	--	--	--	--	--	--
OCT 12, 72	1150	2	.3	633	--	--	--	--	--	--	--
			2.7	5910	--	--	--	--	--	--	--
JAN 16, 73	0930	2	.3	301	26.0	3.7	25	69	16	40	165
			2.7	1230	--	--	--	--	--	--	--
APR 09, 73	1315	2	.3	293	35.0	3.6	21	107	14	30	173

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

WATER YEARS 1972 AND 1973--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM + POTASSIUM (NA+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 22 CONTINUED					
APR 09, 73	1315	2	3.4	291	--	--	--	--	--	--	--
JUN 04, 73	1305	2	.3	828	--	--	--	--	--	--	--
			3.0	828	--	--	--	--	--	--	--
JUN 22, 73	1315	2	3.7	130	--	--	--	--	--	--	--
JUL 03, 73	1215	2	.3	573	--	--	--	--	--	--	--
						LINE 55					
JUN 15, 73	1125	2	.3	126	--	--	--	--	--	--	--
JUN 18, 73	1235	2	.3	130	--	--	--	--	--	--	--
						LINE 65					
FEB 23, 72	1400	2	.3	1010	--	--	--	--	--	--	--
			3.7	995	--	--	--	--	--	--	--
APR 18, 72	1150	2	.3	11100	130.0	240.0	1800	214	460	3300	6100
			4.0	17700	170.0	410.0	3200	174	790	5700	10300
MAY 08, 72	1415	2	.3	728	24.0	11.0	110	70	21	190	396
MAY 08, 72	1500	2	.3	792	27.0	10.0	120	70	23	200	413
MAY 17, 72	0915	2	.3	368	18.0	6.1	45	62	12	73	198
MAY 22, 72	1530	2	.3	543	--	--	--	--	--	--	--
JUN 13, 72	1120	2	4.6	902	--	--	--	--	--	--	--
AUG 22, 72	1300	2	.3	1890	--	--	--	--	--	--	--
			3.0	1890	--	--	--	--	--	--	--
SEP 22, 72	1010	2	.3	3070	--	--	--	--	--	--	--
			3.4	13500	--	--	--	--	--	--	--
OCT 12, 72	1325	2	.3	6740	--	--	--	--	--	--	--
			2.7	19900	--	--	--	--	--	--	--
JAN 16, 73	1107	2	.3	6400	--	--	--	--	--	--	--
			3.4	27000	--	--	--	--	--	--	--
APR 09, 73	1435	2	.3	718	--	--	--	--	--	--	--
			3.0	963	--	--	--	--	--	--	--
JUN 04, 73	1425	2	.3	3820	--	--	--	--	--	--	--
			4.0	7260	--	--	--	--	--	--	--
JUL 03, 73	1115	2	.3	674	--	--	--	--	--	--	--
						LINE 85					
JUN 15, 73	0940	1	.3	141	--	--	--	--	--	--	--
JUN 18, 73	1030	1	.3	140	--	--	--	--	--	--	--
JUL 03, 73	0945	1	.3	1470	--	--	--	--	--	--	--
FEB 23, 72	1245	3	.3	10800	--	--	--	--	--	--	--
			1.5	10600	--	--	--	--	--	--	--
APR 18, 72	1535	3	.3	23100	--	--	--	--	--	--	--
			1.8	23000	--	--	--	--	--	--	--

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

WATER YEARS 1972 AND 1973--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM + POTAS-SIUM (NA+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 85 CONTINUED					
JUN 13, 72	0855	3	.3	9020	--	--	--	--	--	--	--
			1.5	9400	--	--	--	--	--	--	--
AUG 22, 72	1025	3	.3	6410	--	--	--	--	--	--	--
			1.5	6590	--	--	--	--	--	--	--
SEP 22, 72	1055	3	.3	18500	--	--	--	--	--	--	--
			1.5	19000	--	--	--	--	--	--	--
OCT 12, 72	1055	3	.3	16300	--	--	--	--	--	--	--
			1.2	16700	--	--	--	--	--	--	--
JAN 16, 73	1322	3	.3	27700	--	--	--	--	--	--	--
			1.2	27700	--	--	--	--	--	--	--
APR 09, 73	1535	3	.3	7210	--	--	--	--	--	--	--
			1.5	9180	--	--	--	--	--	--	--
JUN 15, 73	0855	4	.3	92	--	--	--	--	--	--	--
JUN 18, 73	0955	4	.3	343	--	--	--	--	--	--	--
JUL 03, 73	0925	4	.3	1020	--	--	--	--	--	--	--
						LINE 90					
FEB 23, 72	1225	3	.3	13200	--	--	--	--	--	--	--
			2.4	13100	110.0	350.0	2300	104	600	4300	7740
APR 18, 72	1730	3	.5	34400	--	--	--	--	--	--	--
			3.2	34500	--	--	--	--	--	--	--
JUN 13, 72	0825	3	.3	8550	90.0	120.0	1600	162	350	2600	4840
			3.4	8670	--	--	--	--	--	--	--
AUG 22, 72	0925	3	.3	13200	120.0	280.0	2700	139	570	4700	8460
			2.7	15100	--	--	--	--	--	--	--
JAN 16, 73	1400	3	.3	32300	260.0	780.0	6400	148	1500	11000	20500
			2.6	34100	--	--	--	--	--	--	--
APR 09, 73	1610	3	.3	10700	94.0	220.0	2000	101	470	3400	6220
			2.7	20600	--	--	--	--	--	--	--
JUN 22, 73	0940	3	.3	385	--	--	--	--	--	--	--
			3.0	392	--	--	--	--	--	--	--
						LINE 108					
MAR 27, 72	1235	2	.3	38900	--	--	--	--	--	--	--
			12.2	42300	--	--	--	--	--	--	--
						LINE 129					
FEB 23, 72	1315	2	.3	25100	--	--	--	--	--	--	--
			2.4	25100	--	--	--	--	--	--	--
APR 18, 72	1115	2	.3	31700	--	--	--	--	--	--	--
			2.1	32300	--	--	--	--	--	--	--
JUN 13, 72	1430	2	.3	15900	--	--	--	--	--	--	--
			3.0	16200	--	--	--	--	--	--	--
AUG 23, 72	0000	2	.3	25100	--	--	--	--	--	--	--
			2.4	25200	--	--	--	--	--	--	--
JAN 17, 73	1205	2	.3	33900	--	--	--	--	--	--	--

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

WATER YEARS 1972 AND 1973--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 + POTASSIUM (NA+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 129 CONTINUED							
APR 11, 73	1030	2	.3	14200	--	--	--	--	--	--	--
			3.0	22200	--	--	--	--	--	--	--
				LINE 143							
OCT 12, 72	0935	1	.3	33300	--	--	--	--	--	--	--
JUN 06, 73	1220	1	.3	27300	--	--	--	--	--	--	--
FEB 23, 72	1408	3	.5	23700	190.0	530.0	4900	118	1100	8600	15400
			1.2	23700	--	--	--	--	--	--	--
APR 18, 72	1651	3	.5	37000	--	--	--	--	--	--	--
			2.3	37200	290.0	900.0	7300	133	1700	13000	23200
APR 19, 72	1000	3	.5	35700	--	--	--	--	--	--	--
			1.8	35700	--	--	--	--	--	--	--
JUN 13, 72	1130	3	.3	20700	160.0	460.0	4000	126	940	7000	12600
			1.8	20500	--	--	--	--	--	--	--
AUG 22, 72	1535	3	.3	23900	220.0	560.0	5400	144	1200	9400	16800
			1.5	24500	--	--	--	--	--	--	--
OCT 12, 72	0955	3	.3	33500	--	--	--	--	--	--	--
JAN 17, 73	1130	3	.3	39000	300.0	880.0	7900	144	2000	14000	25000
			1.5	39100	--	--	--	--	--	--	--
APR 11, 73	0950	3	.3	23400	190.0	540.0	4700	120	1200	8200	14800
			1.5	23400	--	--	--	--	--	--	--
JUN 06, 73	1200	3	.3	25100	--	--	--	--	--	--	--
				LINE 150							
FEB 23, 72	1338	4	.5	24600	200.0	560.0	5000	114	1100	8800	15800
			10.1	36800	--	--	--	--	--	--	--
APR 18, 72	1625	4	.5	39500	--	--	--	--	--	--	--
			11.3	40200	300.0	900.0	8000	135	2000	14000	25300
JUN 13, 72	1220	4	.5	24400	180.0	550.0	4900	128	1100	8500	15300
			10.7	45200	--	--	--	--	--	--	--
AUG 22, 72	1625	4	.3	25800	220.0	620.0	5700	142	1200	10000	17900
			11.0	49300	--	--	--	--	--	--	--
SEP 22, 72	0810	4	.3	34600	--	--	--	--	--	--	--
			10.7	48600	--	--	--	--	--	--	--
JAN 16, 73	0935	4	.3	37900	300.0	910.0	7400	146	1700	13000	23600
			11.3	39800	--	--	--	--	--	--	--
JUN 06, 73	1425	4	.3	18900	--	--	--	--	--	--	--
			11.0	44700	--	--	--	--	--	--	--
				LINE 175							
FEB 23, 72	1502	2	.3	28100	--	--	--	--	--	--	--
			1.2	28400	--	--	--	--	--	--	--
				LINE 180							
APR 19, 72	1032	2	.3	38200	--	--	--	--	--	--	--

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

WATER YEARS 1972 AND 1973--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 + POTASSIUM (NA+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 180 CONTINUED					
APR 19, 72	1032	2	1.8	38200	--	--	--	--	--	--	--
JUN 13, 72	1054	2	.3	22900	--	--	--	--	--	--	--
			1.5	22800	--	--	--	--	--	--	--
AUG 22, 72	1430	2	.3	30900	--	--	--	--	--	--	--
			1.5	32600	--	--	--	--	--	--	--
JAN 17, 73	1021	2	.3	37900	--	--	--	--	--	--	--
			1.2	38300	--	--	--	--	--	--	--
APR 11, 73	0850	2	.3	27700	--	--	--	--	--	--	--
			1.5	28100	--	--	--	--	--	--	--
						LINE 200					
FEB 24, 72	1100	5	.6	37700	300.0	1000.0	7600	135	1800	14000	24700
JUN 14, 72	1028	5	.3	42700	--	--	--	--	--	--	--
AUG 22, 72	1335	5	.3	37700	--	--	--	--	--	--	--
JAN 16, 73	1110	5	.3	39800	--	--	--	--	--	--	--
			2.1	40100	--	--	--	--	--	--	--
APR 11, 73	0935	5	.6	27800	--	--	--	--	--	--	--
						LINE 210					
OCT 12, 72	1015	2	.3	46000	--	--	--	--	--	--	--
			11.6	45900	--	--	--	--	--	--	--
JUN 06, 73	1540	2	.3	44400	--	--	--	--	--	--	--
			11.6	49800	--	--	--	--	--	--	--
						LINE 224					
FEB 23, 72	0830	2	.6	6440	63.0	140.0	1100	103	260	1900	3500
JUN 13, 72	1400	2	.3	4190	--	--	--	--	--	--	--
AUG 23, 72	0930	2	.3	411	--	--	--	--	--	--	--
OCT 11, 72	1800	2	.3	11000	110.0	220.0	1900	216	440	3400	6170
JUN 05, 73	1445	2	.3	5710	--	--	--	--	--	--	--
						LINE 235					
JUN 15, 73	1440	2	.3	293	--	--	--	--	--	--	--
						LINE 249					
FEB 23, 72	0906	2	.3	34200	--	--	--	--	--	--	--
			1.5	34200	--	--	--	--	--	--	--
JUN 12, 72	1640	2	.5	31200	--	--	--	--	--	--	--
			2.4	32300	--	--	--	--	--	--	--
AUG 21, 72	1520	2	.3	33800	--	--	--	--	--	--	--
			2.1	37100	--	--	--	--	--	--	--
OCT 11, 72	1400	2	.3	40500	--	--	--	--	--	--	--
			1.8	40600	--	--	--	--	--	--	--

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

WATER YEARS 1972 AND 1973--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM + POTAS-SIUM (NA+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 249 CONTINUED					
JAN 15, 73	1555	2	.3	40900	--	--	--	--	--	--	--
			1.5	41700	--	--	--	--	--	--	--
APR 10, 73	1345	2	.3	33700	--	--	--	--	--	--	--
			1.5	33900	--	--	--	--	--	--	--
JUN 05, 73	1705	2	.6	26000	--	--	--	--	--	--	--
			1.8	26600	--	--	--	--	--	--	--
						LINE 254					
OCT 11, 72	1600	2	.3	9950	110.0	240.0	1600	168	370	3000	5510
			1.8	15400	--	--	--	--	--	--	--
JUN 05, 73	1215	2	.3	2340	50.0	40.0	370	145	95	620	1260
			3.4	2600	--	--	--	--	--	--	--
JUN 15, 73	1555	2	.3	155	--	--	--	--	--	--	--
JUN 18, 73	1540	2	.3	189	--	--	--	--	--	--	--
JUN 22, 73	1755	2	.3	162	--	--	--	--	--	--	--
			3.7	168	--	--	--	--	--	--	--
						LINE 258					
FEB 22, 72	1710	2	.6	25800	200.0	620.0	5200	124	1200	9200	16500
APR 17, 72	1825	2	.9	26000	230.0	580.0	5200	167	1200	9100	16300
JUN 12, 72	1245	2	.3	8380	--	--	--	--	--	--	--
AUG 23, 72	1730	2	.3	12800	--	--	--	--	--	--	--
JAN 16, 73	1619	2	.3	22100	--	--	--	--	--	--	--
APR 10, 73	1630	2	.3	20000	--	--	--	--	--	--	--
JUN 15, 73	1620	2	.3	183	--	--	--	--	--	--	--
JUN 18, 73	1600	2	.3	386	--	--	--	--	--	--	--
						LINE 264					
OCT 11, 72	1635	2	.3	34000	--	--	--	--	--	--	--
			.9	34100	--	--	--	--	--	--	--
JUN 05, 73	1255	2	.3	16700	--	--	--	--	--	--	--
			1.5	16900	--	--	--	--	--	--	--
JUN 15, 73	1635	2	.3	528	--	--	--	--	--	--	--
JUN 18, 73	1610	2	.3	448	--	--	--	--	--	--	--
JUN 22, 73	1715	2	.3	1690	--	--	--	--	--	--	--
			1.4	8350	--	--	--	--	--	--	--
						LINE 284					
FEB 22, 72	1140	1	.3	32100	--	--	--	--	--	--	--
			1.2	31900	--	--	--	--	--	--	--
APR 17, 72	1755	1	.3	37000	--	--	--	--	--	--	--
			1.5	37900	--	--	--	--	--	--	--
JUN 12, 72	1157	1	.3	27500	--	--	--	--	--	--	--

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

WATER YEARS 1972 AND 1973--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 + POTASSIUM (NA+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 284 CONTINUED						
JUN 12, 72	1157	1	1.5	28300	--	--	--	--	--	--	--
AUG 21, 72	1108	1	.3	40600	--	--	--	--	--	--	--
			1.2	41100	--	--	--	--	--	--	--
JAN 15, 73	1202	1	.3	35600	--	--	--	--	--	--	--
			.8	39200	--	--	--	--	--	--	--
APR 10, 73	0650	1	.6	32400	--	--	--	--	--	--	--
			1.2	32300	--	--	--	--	--	--	--
FEB 22, 72	1206	3	.3	31500	--	--	--	--	--	--	--
			1.8	32200	--	--	--	--	--	--	--
APR 17, 72	1630	3	.3	37700	--	--	--	--	--	--	--
			2.4	37700	--	--	--	--	--	--	--
JUN 12, 72	1247	3	.3	27000	--	--	--	--	--	--	--
			2.1	27000	--	--	--	--	--	--	--
AUG 21, 72	1043	3	.3	37200	--	--	--	--	--	--	--
			1.8	39200	--	--	--	--	--	--	--
JAN 15, 73	1225	3	.3	38600	--	--	--	--	--	--	--
			1.5	40500	--	--	--	--	--	--	--
APR 10, 73	0915	3	.3	32400	--	--	--	--	--	--	--
			1.5	32400	--	--	--	--	--	--	--
					LINE 333						
FEB 22, 72	1405	1	.3	27500	--	--	--	--	--	--	--
			1.2	27300	--	--	--	--	--	--	--
APR 19, 72	1130	1	.3	40200	--	--	--	--	--	--	--
			1.7	40000	320.0	950.0	7800	155	1700	14000	24800
JUN 12, 72	1550	1	.3	41100	--	--	--	--	--	--	--
			1.4	41000	--	--	--	--	--	--	--
AUG 23, 72	1410	1	.3	44800	--	--	--	--	--	--	--
			1.5	46100	--	--	--	--	--	--	--
OCT 11, 72	1305	1	.3	36600	--	--	--	--	--	--	--
			1.5	38400	--	--	--	--	--	--	--
JAN 15, 73	1425	1	.3	33300	--	--	--	--	--	--	--
			1.2	36400	--	--	--	--	--	--	--
APR 10, 73	1320	1	.3	19300	--	--	--	--	--	--	--
			1.2	19200	--	--	--	--	--	--	--
JUN 05, 73	0845	1	.3	33600	--	--	--	--	--	--	--
			1.5	33500	--	--	--	--	--	--	--
					LINE 350						
JUN 12, 72	1438	1	.3	44900	--	--	--	--	--	--	--
			1.5	44600	--	--	--	--	--	--	--
AUG 21, 72	1317	1	.3	44500	--	--	--	--	--	--	--
			1.5	45200	--	--	--	--	--	--	--
JAN 15, 73	1415	1	.3	37800	--	--	--	--	--	--	--
			1.8	40100	--	--	--	--	--	--	--
APR 10, 73	1100	1	.6	31500	--	--	--	--	--	--	--

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

WATER YEARS 1972 AND 1973--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM + POTAS-SIUM (NA+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 350 CONTINUED							
APR 10, 73	1100	1	3.0	31400	--	--	--	--	--	--	--
FEB 22, 72	1430	3	.3	38600	--	--	--	--	--	--	--
			1.5	38400	--	--	--	--	--	--	--
JUN 12, 72	1407	3	.3	39400	--	--	--	--	--	--	--
			2.6	39600	--	--	--	--	--	--	--
AUG 21, 72	1255	3	.3	43200	--	--	--	--	--	--	--
			2.4	45600	--	--	--	--	--	--	--
JAN 15, 73	1345	3	.3	31900	--	--	--	--	--	--	--
			2.1	39600	--	--	--	--	--	--	--
APR 10, 73	1025	3	.6	27400	--	--	--	--	--	--	--
			1.8	27600	--	--	--	--	--	--	--
				LINE 363							
FEB 22, 72	1453	1	.3	39200	--	--	--	--	--	--	--
			2.1	42500	--	--	--	--	--	--	--
JUN 12, 72	1504	1	.3	46900	--	--	--	--	--	--	--
			1.2	46900	--	--	--	--	--	--	--
AUG 21, 72	1345	1	.3	41800	--	--	--	--	--	--	--
			2.7	47700	--	--	--	--	--	--	--
OCT 11, 72	1230	1	.3	44400	--	--	--	--	--	--	--
			2.4	44900	350.0	1200.0	8900	156	2100	16000	28500
JAN 15, 73	1435	1	.3	39300	--	--	--	--	--	--	--
			1.4	40400	--	--	--	--	--	--	--
APR 10, 73	1125	1	.6	33300	--	--	--	--	--	--	--
			2.7	33300	--	--	--	--	--	--	--
JUN 05, 73	1550	1	.3	41100	330.0	990.0	8000	142	2100	14000	25700
			2.1	41700	--	--	--	--	--	--	--
FEB 22, 72	1535	3	.3	36800	--	--	--	--	--	--	--
			2.7	37100	--	--	--	--	--	--	--
JUN 12, 72	1535	3	.5	38100	--	--	--	--	--	--	--
			3.4	42700	--	--	--	--	--	--	--
AUG 21, 72	1415	3	.3	42200	--	--	--	--	--	--	--
			3.0	49400	--	--	--	--	--	--	--
OCT 11, 72	1300	3	.3	42500	--	--	--	--	--	--	--
			3.4	42900	--	--	--	--	--	--	--
JAN 15, 73	1500	3	.3	39000	--	--	--	--	--	--	--
			3.0	40800	--	--	--	--	--	--	--
APR 10, 73	1205	3	.6	34900	--	--	--	--	--	--	--
			3.0	35300	--	--	--	--	--	--	--
JUN 05, 73	1610	3	.6	30400	--	--	--	--	--	--	--
			3.0	42200	--	--	--	--	--	--	--
FEB 22, 72	1603	5	.5	34900	--	--	--	--	--	--	--
			2.7	34900	--	--	--	--	--	--	--
JUN 12, 72	1607	5	.5	39700	280.0	860.0	7400	137	1800	13000	23400
			4.0	42200	--	--	--	--	--	--	--
AUG 21, 72	1445	5	.3	40700	--	--	--	--	--	--	--

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

WATER YEARS 1972 AND 1973--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (LAB)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM + POTASSIUM (NA+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 363 CONTINUED						
AUG 21, 72	1445	5	3.4	41800	--	--	--	--	--	--	--
OCT 11, 72	1330	5	.3	41900	--	--	--	--	--	--	--
			3.4	41900	--	--	--	--	--	--	--
JAN 15, 73	1530	5	.3	39300	300.0	910.0	7800	149	1600	14000	24700
			3.4	42300	--	--	--	--	--	--	--
APR 10, 73	1235	5	.6	34200	260.0	780.0	7200	141	1800	12000	22700
			3.4	34400	--	--	--	--	--	--	--
JUN 05, 73	1640	5	.6	32300	--	--	--	--	--	--	--
			2.7	32500	--	--	--	--	--	--	--
					LINE 375						
FEB 24, 72	0950	1	.3	39300	--	--	--	--	--	--	--
			3.7	45400	--	--	--	--	--	--	--
JUN 14, 72	1145	1	.3	48500	--	--	--	--	--	--	--
			4.3	48800	--	--	--	--	--	--	--
AUG 22, 72	1005	1	.3	50700	--	--	--	--	--	--	--
			3.7	52000	--	--	--	--	--	--	--
OCT 11, 72	1525	1	.3	44300	--	--	--	--	--	--	--
			3.4	44600	--	--	--	--	--	--	--
JAN 16, 73	1210	1	.3	41100	--	--	--	--	--	--	--
			3.4	41300	--	--	--	--	--	--	--
APR 11, 73	1030	1	.6	36800	--	--	--	--	--	--	--
			4.0	41400	--	--	--	--	--	--	--
JUN 06, 73	1800	1	.3	34300	--	--	--	--	--	--	--
			3.7	49800	--	--	--	--	--	--	--
FEB 24, 72	1025	3	.5	34000	--	--	--	--	--	--	--
			2.4	34300	--	--	--	--	--	--	--
JUN 14, 72	0950	3	.5	33900	--	--	--	--	--	--	--
			4.0	41000	--	--	--	--	--	--	--
AUG 22, 72	0925	3	.3	41000	--	--	--	--	--	--	--
			3.4	43200	--	--	--	--	--	--	--
OCT 11, 72	1445	3	.3	40900	--	--	--	--	--	--	--
			3.4	40800	--	--	--	--	--	--	--
JAN 16, 73	1030	3	.3	40700	--	--	--	--	--	--	--
			3.4	41600	--	--	--	--	--	--	--
APR 11, 73	0900	3	.6	31700	--	--	--	--	--	--	--
			3.4	35000	--	--	--	--	--	--	--
JUN 06, 73	1835	3	.3	30000	--	--	--	--	--	--	--
			3.7	39400	--	--	--	--	--	--	--
					LINE 382						
JUN 14, 72	1258	1	.3	49600	320.0	1100.0	9500	142	2200	17000	30100
			1.8	49800	--	--	--	--	--	--	--
AUG 22, 72	1120	1	.3	51600	400.0	1300.0	12000	142	2500	21000	37000
			1.2	51700	--	--	--	--	--	--	--
JAN 16, 73	1310	1	.3	41500	320.0	950.0	8300	142	2000	15000	26200

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

WATER YEARS 1972 AND 1973--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM + POTAS-SIUM (NA+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 382 CONTINUED						
JAN 16, 73	1310	1	1.8	41500	--	--	--	--	--	--	--
FEB 24, 72	1025	2	4.3	42800	--	--	--	--	--	--	--
JUN 14, 72	1335	4	.3	49200	--	--	--	--	--	--	--
			3.7	49300	--	--	--	--	--	--	--
AUG 22, 72	1235	4	.3	41200	--	--	--	--	--	--	--
			4.0	50500	--	--	--	--	--	--	--
JAN 16, 73	1410	4	.3	42300	--	--	--	--	--	--	--
			3.0	42200	--	--	--	--	--	--	--
						LINE 397					
FEB 24, 72	0920	2	.5	39900	300.0	980.0	7900	136	1800	14000	25300
			15.2	41600	--	--	--	--	--	--	--
JUN 14, 72	1215	2	.3	49100	350.0	1100.0	9500	144	2200	17000	29800
			11.6	48700	--	--	--	--	--	--	--
AUG 22, 72	1035	2	.3	52000	400.0	1200.0	12000	146	2600	21000	37200
			13.1	52300	--	--	--	--	--	--	--
JAN 16, 73	1245	2	.3	40400	310.0	980.0	7800	140	1900	14000	25100
			12.5	40500	--	--	--	--	--	--	--
APR 11, 73	1055	2	.3	43300	330.0	1100.0	9100	136	2200	16000	28900
			11.6	43600	--	--	--	--	--	--	--
						LINE 600					
APR 18, 72	1450	2	1.2	14200	--	--	--	--	--	--	--
MAY 08, 72	1520	2	.3	12800	120.0	320.0	2200	111	590	4000	7270
MAY 17, 72	1030	2	.3	1000	22.0	27.0	140	71	32	260	523
MAY 22, 72	1555	2	1.2	2890	--	--	--	--	--	--	--
JUN 15, 73	1020	2	.3	116	--	--	--	--	--	--	--
JUN 18, 73	1110	2	.3	151	--	--	--	--	--	--	--
JUN 22, 73	1105	2	.8	325	--	--	--	--	--	--	--
JUL 03, 73	1015	2	.3	923	--	--	--	--	--	--	--
						LINE 606					
MAY 08, 72	1515	2	.3	2610	40.0	49.0	460	76	98	800	1490
MAY 17, 72	1020	2	.3	1620	31.0	33.0	260	79	57	460	894
MAY 22, 72	1605	2	.9	1330	--	--	--	--	--	--	--
JUN 22, 73	1055	2	.3	452	--	--	--	--	--	--	--
						LINE 610					
APR 18, 72	1350	2	.6	7770	--	--	--	--	--	--	--
MAY 08, 72	1440	2	.3	6950	75.0	140.0	1200	119	300	2100	3810
MAY 17, 72	0955	2	.3	368	--	--	--	--	--	--	--

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

WATER YEARS 1972 AND 1973--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM + POTAS-SIUM (NA+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 610 CONTINUED					
MAY 22, 72	1500	2	1.2	1400	--	--	--	--	--	--	--
JUN 18, 73	1150	2	.3	118	--	--	--	--	--	--	--
JUN 22, 73	1145	2	.3	341	--	--	--	--	--	--	--
JUL 03, 73	1125	2	.3	650	--	--	--	--	--	--	--
						LINE 617					
MAY 08, 72	1430	2	.3	7440	82.0	150.0	1200	122	280	2200	4010
MAY 17, 72	0940	2	.3	728	22.0	12.0	110	62	24	180	391
MAY 22, 72	1515	2	.9	1080	--	--	--	--	--	--	--
JUN 22, 73	1135	2	.3	241	--	--	--	--	--	--	--
						LINE 902					
SEP 21, 72	1800	49	.3	49800	--	--	--	--	--	--	--
			12.2	51200	--	--	--	--	--	--	--
						LINE 910					
SEP 21, 72	1725	49	.3	50000	380.0	1200.0	10000	142	2500	18000	32600
			19.8	52200	--	--	--	--	--	--	--

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

WATER YEARS 1972 AND 1973

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMINUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)
						LINE 17				
SEP 22, 72	0925	2	.3	--	10	--	--	0	--	--
			3.4	--	--	--	1	--	--	0
OCT 12, 72	1235	2	.3	--	0	--	--	0	--	--
			3.4	--	--	--	2	--	--	0
						LINE 22				
SEP 22, 72	0845	2	.3	--	10	--	--	0	--	--
			2.4	--	--	--	0	--	--	0
OCT 12, 72	1150	2	.3	--	0	--	--	0	--	--
			2.7	--	--	--	0	--	--	0
						LINE 85				
APR 18, 72	1550	4	.3	--	0	10	--	0	0	--
			.9	--	--	--	0	--	--	0
						LINE 224				
OCT 11, 72	1800	2	.3	--	0	--	--	0	--	--
			.9	--	--	--	1	--	--	0
						LINE 258				
APR 17, 72	1345	2	.3	--	0	0	--	1	0	--
			.9	--	--	--	2	--	--	0
						LINE 264				
OCT 11, 72	1635	2	.3	--	0	--	--	1	--	--
			.9	--	--	--	3	--	--	0
						LINE 910				
SEP 21, 72	1725	49	.3	--	0	--	--	0	--	--

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

WATER YEARS 1972 AND 1973--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 17					
SEP 22, 72	0925	2	.3	0	--	--	--	--	7	--	--
			3.4	--	--	--	--	3	--	--	3
OCT 12, 72	1235	2	.3	0	--	--	--	--	5	--	--
			3.4	--	--	--	--	3	--	--	5
						LINE 22					
SEP 22, 72	0845	2	.3	0	--	--	--	--	5	--	--
			2.4	--	--	--	--	3	--	--	3
OCT 12, 72	1150	2	.3	0	--	--	--	--	6	--	--
			2.7	--	--	--	--	3	--	--	3
						LINE 85					
APR 18, 72	1550	4	.3	--	--	0	1	--	6	4	--
			.9	--	--	--	--	1	--	--	1
						LINE 224					
OCT 11, 72	1800	2	.3	0	--	--	--	--	8	--	--
			.9	--	--	--	--	2	--	--	5
						LINE 258					
APR 17, 72	1345	2	.3	--	--	1	0	--	10	4	--
			.9	--	--	--	--	1	--	--	6
						LINE 264					
OCT 11, 72	1635	2	.3	0	--	--	--	--	9	--	--
			.9	--	--	--	--	2	--	--	8
						LINE 910					
SEP 21, 72	1725	49	.3	0	--	--	--	--	6	--	--

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

WATER YEARS 1972 AND 1973--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 17					
SEP 22, 72	0925	2	.3	--	--	190	--	--	1	--	--
			3.4	--	--	--	--	6600	--	--	3
OCT 12, 72	1235	2	.3	--	--	0	--	--	0	--	--
			3.4	--	--	--	--	11000	--	--	2
						LINE 22					
SEP 22, 72	0845	2	.3	--	--	230	--	--	0	--	--
			2.4	--	--	--	--	6500	--	--	3
OCT 12, 72	1150	2	.3	--	--	10	--	--	0	--	--
			2.7	--	--	--	--	7100	--	--	3
						LINE 85					
APR 18, 72	1550	4	.3	--	--	160	5600	--	0	2	--
			.9	--	--	--	--	2600	--	--	2
						LINE 224					
OCT 11, 72	1800	2	.3	--	--	0	--	--	2	--	--
			.9	--	--	--	--	12000	--	--	2
						LINE 258					
APR 17, 72	1345	2	.3	--	--	180	4200	--	3	--	--
			.9	--	--	--	--	12000	--	--	2
						LINE 264					
OCT 11, 72	1635	2	.3	--	--	0	--	--	3	--	--
			.9	--	--	--	--	25000	--	--	3
						LINE 910					
SEP 21, 72	1725	49	.3	--	--	0	--	--	--	--	--

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

WATER YEARS 1972 AND 1973--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BOTTOM DEPOSIT MANGANESE (MN) (UG/GM)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	BOTTOM DEPOSIT MERCURY (HG) (UG/GM)	DIS-SOLVED NICKLE (NI) (UG/L)	DIS-SOLVED STRONTIUM (SR) (UG/L)
						LINE 17						
SEP 22, 72	0925	2	.3	0	0	--	--	--	--	--	--	830
			3.4	--	--	--	210	--	--	.0	--	--
OCT 12, 72	1235	2	.3	10	0	--	--	--	--	--	--	520
			3.4	--	--	--	260	--	--	.0	--	--
						LINE 22						
SEP 22, 72	0845	2	.3	0	0	--	--	--	--	--	--	680
			2.4	--	--	--	170	--	--	.0	--	--
OCT 12, 72	1150	2	.3	10	0	--	--	--	--	--	--	320
			2.7	--	--	--	160	--	--	.0	--	--
						LINE 85						
APR 18, 72	1550	4	.3	80	70	240	--	.2	.4	--	2	2800
			.9	--	--	--	50	--	--	.0	--	--
						LINE 224						
OCT 11, 72	1800	2	.3	40	0	--	--	--	--	--	--	1500
			.9	--	--	--	140	--	--	.0	--	--
						LINE 258						
APR 17, 72	1345	2	.3	90	50	150	-- <	.2	.2	--	11	3300
			.9	--	--	--	140	--	--	.0	--	--
						LINE 264						
OCT 11, 72	1635	2	.3	110	30	--	--	--	--	--	--	4500
			.9	--	--	--	170	--	--	.0	--	--
						LINE 910						
SEP 21, 72	1725	49	.3	140	40	--	--	--	--	--	--	--

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

WATER YEARS 1972 AND 1973--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 17
SEP 22, 72	0925	2	.3	21	--	--
			3.4	--	--	20
OCT 12, 72	1235	2	.3	20	--	--
			3.4	--	--	28
						LINE 22
SEP 22, 72	0845	2	.3	0	--	--
			2.4	--	--	15
OCT 12, 72	1150	2	.3	6	--	--
			2.7	--	--	20
						LINE 85
APR 18, 72	1550	4	.3	0	20	--
			.9	--	--	6
						LINE 224
OCT 11, 72	1800	2	.3	10	--	--
			.9	--	--	30
						LINE 258
APR 17, 72	1345	2	.3	20	--	--
			.9	--	--	18
						LINE 264
OCT 11, 72	1635	2	.3	16	--	--
			.9	--	--	55

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

WATER YEARS 1972 AND 1973

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL ALDRIN (UG/L)	BOTTOM DEPOSIT ALDRIN (UG/KG)	TOTAL CHLORDANE (UG/L)	BOTTOM DEPOSIT CHLORDANE (UG/KG)	TOTAL DDD (UG/L)	BOTTOM DEPOSIT DDD (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDE (UG/KG)
						LINE 17					
SEP 22, 72	0925	2	.3	.00	--	.0	--	.00	--	.00	--
			3.4	--	< .2	--	< 1.0	--	4.4	--	13.0
OCT 12, 72	1235	2	.3	.00	--	.0	--	.00	--	.00	--
			3.4	--	< .2	--	< 1.0	--	.8	--	2.3
						LINE 22					
SEP 22, 72	0845	2	.3	.00	--	.0	--	.00	--	.00	--
			2.4	--	< .2	--	< 1.0	--	.6	--	1.3
OCT 12, 72	1150	2	.3	.00	--	.0	--	.00	--	.00	--
			2.7	--	< .2	--	< 1.0	--	1.3	--	3.0
						LINE 85					
FEB 23, 72	1245	3	1.5	--	< .2	--	< 1.0	--	< .2	--	3.5
APR 18, 72	1550	4	.3	.00	--	.0	--	.00	--	.00	--
			.9	--	< .2	--	< 1.0	--	< .2	--	.6
						LINE 200					
FEB 24, 72	1100	5	.6	--	< .2	--	< 1.0	--	< .2	--	< .2
						LINE 224					
FEB 23, 72	0830	2	.6	--	< .2	--	< 1.0	--	< .2	--	3.7
OCT 11, 72	1800	2	.9	--	< .2	--	< 1.0	--	< .2	--	< .2
						LINE 258					
FEB 22, 72	1710	2	.6	--	< .2	--	< 1.0	--	2.9	--	13.0
APR 17, 72	1345	2	.3	.00	--	.0	--	.00	--	.00	--
			.9	--	< .2	--	< 1.0	--	4.0	--	26.0
						LINE 264					
OCT 11, 72	1635	2	.3	.00	--	.0	--	.00	--	.00	--
			.9	--	< .2	--	< 1.0	--	< .2	--	2.8
						LINE 333					
FEB 22, 72	1405	1	1.2	--	< .2	--	< 1.0	--	< .2	--	< .2
OCT 11, 72	1305	1	1.5	--	< .2	--	< 1.0	--	1.7	--	3.7
						LINE 363					
FEB 22, 72	1453	1	2.1	--	< .2	--	< 1.0	--	< .2	--	< .9
OCT 11, 72	1300	3	.3	.00	--	.0	--	.00	--	.00	--
FEB 22, 72	1603	5	2.7	--	< .2	--	< 1.0	--	< .2	--	< .2
OCT 11, 72	1330	5	.3	.00	--	.0	--	.00	--	.00	--

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

WATER YEARS 1972 AND 1973--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 17					
SEP 22, 72	0925	2	.3	.00	--	.00	--	.00	--	.00	--
			3.4	-- <	.2	-- <	.2	-- <	.2	-- <	.2
OCT 12, 72	1235	2	.3	.00	--	.00	--	.00	--	.00	--
			3.4	-- <	.2	-- <	.2	-- <	.2	-- <	.2
						LINE 22					
SEP 22, 72	0845	2	.3	.00	--	.01	--	.00	--	.00	--
			2.4	-- <	.2	-- <	.2	-- <	.2	-- <	.2
OCT 12, 72	1150	2	.3	.00	--	.00	--	.00	--	.00	--
			2.7	-- <	.2	-- <	.2	-- <	.2	-- <	.2
						LINE 85					
FEB 23, 72	1245	3	1.5	-- <	.2	-- <	.2	-- <	.2	-- <	.2
APR 18, 72	1550	4	.3	.00	--	.00	--	.00	--	.00	--
			.9	-- <	.2	-- <	.2	-- <	.2	-- <	.2
						LINE 200					
FEB 24, 72	1100	5	.6	-- <	.2	-- <	.2	-- <	.2	-- <	.2
						LINE 224					
FEB 23, 72	0830	2	.6	-- <	.2	-- <	.2	-- <	.2	-- <	.2
OCT 11, 72	1800	2	.9	-- <	.2	--	4.8	-- <	.2	-- <	.2
						LINE 258					
FEB 22, 72	1710	2	.6	--	1.7	-- <	.2	-- <	.2	-- <	.2
APR 17, 72	1345	2	.3	.00	--	.00	--	.00	--	.00	--
			.9	--	1.5	-- <	.2	-- <	.2	-- <	.2
						LINE 264					
OCT 11, 72	1635	2	.3	.00	--	.00	--	.00	--	.00	--
			.9	-- <	.2	-- <	.2	-- <	.2	-- <	.2
						LINE 333					
FEB 22, 72	1405	1	1.2	-- <	.2	-- <	.2	-- <	.2	-- <	.2
OCT 11, 72	1305	1	1.5	-- <	.2	-- <	.2	-- <	.2	-- <	.2
						LINE 363					
FEB 22, 72	1453	1	2.1	-- <	.2	-- <	.2	-- <	.2	-- <	.2
OCT 11, 72	1300	3	.3	.00	--	.00	--	.00	--	.00	--
FEB 22, 72	1603	5	2.7	-- <	.2	-- <	.2	-- <	.2	-- <	.2
OCT 11, 72	1330	5	.3	.00	--	.00	--	.00	--	.00	--

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

WATER YEARS 1972 AND 1973--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 17					
SEP 22, 72	0925	2	.3	.00	--	.00	--	.00	.00	.00	.00
			3.4	-- <	.2	-- <	.2	--	--	--	--
OCT 12, 72	1235	2	.3	.00	--	.00	--	.00	.00	.00	.00
			3.4	-- <	.2	-- <	.2	--	--	--	--
						LINE 22					
SEP 22, 72	0845	2	.3	.00	--	.00	--	.00	.00	.00	.02
			2.4	-- <	.2	-- <	.2	--	--	--	--
OCT 12, 72	1150	2	.3	.00	--	.00	--	.00	.00	.00	.00
			2.7	-- <	.2	-- <	.2	--	--	--	--
						LINE 85					
FEB 23, 72	1245	3	1.5	-- <	.2	--	--	--	--	--	--
APR 18, 72	1550	4	.3	.00	--	.00	--	.00	.00	.00	.00
			.9	-- <	.2	-- <	.2	--	--	--	--
						LINE 200					
FEB 24, 72	1100	5	.6	-- <	.2	--	--	--	--	--	--
						LINE 224					
FEB 23, 72	0830	2	.6	-- <	.2	--	--	--	--	--	--
OCT 11, 72	1800	2	.9	-- <	.2	-- <	.2	--	--	--	--
						LINE 258					
FEB 22, 72	1710	2	.6	-- <	.2	--	--	--	--	--	--
APR 17, 72	1345	2	.3	.00	--	.00	--	.00	.00	.00	.00
			.9	-- <	.2	-- <	.2	--	--	--	--
						LINE 264					
OCT 11, 72	1635	2	.3	.00	--	.00	--	.00	.00	.00	.00
			.9	-- <	.2	-- <	.2	--	--	--	--
						LINE 333					
FEB 22, 72	1405	1	1.2	-- <	.2	--	--	--	--	--	--
OCT 11, 72	1305	1	1.5	-- <	.2	-- <	.2	--	--	--	--
						LINE 363					
FEB 22, 72	1453	1	2.1	-- <	.2	-- <	.2	--	--	--	--
OCT 11, 72	1300	3	.3	.00	--	.00	--	.00	.00	.00	.00
FEB 22, 72	1603	5	2.7	-- <	.2	-- <	.2	--	--	--	--
OCT 11, 72	1330	5	.3	.00	--	.00	--	.00	.00	.00	.00

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

WATER YEARS 1972 AND 1973--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 17					
SEP 22, 72	0925	2	.3 <	.1	--	.00	--	.00	--	.00	--
OCT 12, 72	1235	2	.3 <	.1	--	.00	--	.00	--	.00	--
						LINE 22					
SEP 22, 72	0845	2	.3 <	.1	--	.09	--	.00	--	.00	--
OCT 12, 72	1150	2	.3 <	.1	--	.00	--	.00	--	.00	--
						LINE 85					
APR 18, 72	1550	4	.3 <	.5	--	.00	--	.00	--	.00	--
			.9	-- <	10.0	-- <	.9	-- <	.3	-- <	.3
						LINE 200					
FEB 29, 72	1100	5	.6	--	--	.00	--	.00	--	.00	--
						LINE 224					
FEB 23, 72	0830	2	.6	--	--	.00	--	.00	--	.00	--
OCT 11, 72	1800	2	.3	-- <	2.0	.02	--	.02	--	.00	--
						LINE 258					
FEB 22, 72	1710	2	.3	--	--	.00	--	.00	--	.00	--
APR 17, 72	1345	2	.3 <	.5	--	.04	--	.02	--	.00	--
			.9	-- <	10.0	-- <	1.2	-- <	.4	-- <	.4
						LINE 264					
OCT 11, 72	1635	2	.3 <	.1	--	.00	--	.00	--	.00	--
			.9	-- <	2.0	--	--	--	--	--	--
						LINE 333					
FEB 22, 72	1405	1	.3 <	.5	--	.00	--	.00	--	.00	--
OCT 11, 72	1305	1	.3	--	--	.00	--	.00	--	.00	--
			1.5	-- <	2.0	--	--	--	--	--	--
						LINE 363					
FEB 22, 72	1453	1	.3 <	.5	--	.00	--	.00	--	.00	--
OCT 11, 72	1300	3	.3 <	.1	--	.00	--	.00	--	.00	--
FEB 22, 72	1603	5	.5 <	.5	--	.00	--	.00	--	.00	--
OCT 11, 72	1330	5	.3 <	.1	--	.00	--	.00	--	.00	--

Guadalupe Estuary

The Guadalupe estuary covers an area of almost 210 square miles (540 square kilometers) 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 meters) deep; Mission Lake, Guadalupe Bay, and Hynes Bay are less than 3 feet (1.0 meter) deep; San Antonio Bay is less than 6 feet (1.8 meters) deep; Espiritu Santo Bay is about 8 feet (2.4 meters) deep; Mesquite Bay is about 4 feet (1.2 meters) deep; Victoria Channel is more than 8 feet (2.4 meters) deep; and the Intracoastal Waterway is about 15 feet (4.6 meters) deep.

Water-quality data (Table 6) were collected during March, April, May, June, July, September, and December 1972, and March, May, and August 1973.

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

Analyses for selected ions for water year 1971 are also shown in Table 6.

The changes in line numbers to facilitate storage in the Texas Water Oriented Data Bank and to provide opportunity to coordinate data-collection sites among all agencies are shown below. New line numbers are used in Table 6 and on Figure 7.

All data collected prior to the changes in line numbers are stored in the data bank under the new line numbers.

Guadalupe Estuary Change in Line Numbers

OLD	NEW	OLD	NEW
1	10	23	236
2	20	24	243
3	30	25	254
4	40	26	264
5	50	27	274
5a	52	28	287
6	60	29	294
6a	79	30	307
7	71	31	291
8	80	32	302
9	90	33	311
10	100	34	314
11	116	35	317
12	124	36	320
13	130	37	330
13a	144	37a	333
14	145	38	342
15	153	39	354
16	160	40	360
17	170	Lavaca-Tres Palacios 38-site 4	370
18	191		
19	197		
20	200		
21	214		
22	225		

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

WATER YEARS 1972 AND 1973

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 10					
DEC 06, 71	1555	2	.3	1000	15.2	7.6	9.4	92	--	36
			1.5	980	15.2	7.5	9.4	92	--	--
			4.0	980	15.2	7.5	8.8	86	--	--
MAR 14, 72	1650	2	.3	1000	20.9	7.7	10.0	111	--	30
			1.5	1000	20.4	7.6	9.2	101	--	--
			4.6	790	20.3	7.6	8.2	90	--	--
APR 26, 72	1045	2	.3	950	25.7	7.4	9.0	108	--	30
			1.5	950	25.6	7.4	8.6	104	--	--
			3.0	960	25.6	7.4	7.8	94	--	--
			4.3	960	25.7	7.4	7.2	87	--	--
MAY 15, 72	1525	2	.3	920	27.4	7.8	11.1	139	--	55
			1.5	920	26.5	7.7	10.4	127	--	--
			3.0	950	26.0	7.4	7.6	93	--	--
			4.3	950	25.9	7.2	2.6	32	--	--
JUL 17, 72	1705	2	.3	970	30.0	7.6	9.7	128	--	41
			2.1	970	29.6	7.4	8.0	104	--	--
			4.3	900	29.7	7.2	7.1	92	--	--
DEC 11, 72	1300	2	.3	900	10.2	7.8	11.8	104	--	--
			1.5	900	10.2	7.8	11.5	102	--	--
			3.0	1200	10.3	7.8	12.2	108	--	--
			4.0	1200	9.9	7.8	12.8	113	--	--
MAR 19, 73	1220	2	.3	900	19.8	7.6	9.6	104	--	25
			1.5	930	19.6	7.5	9.6	103	--	--
			3.0	930	19.5	7.5	9.3	100	--	--
			3.7	930	19.4	7.5	9.5	102	--	--
AUG 02, 73	1005	2	.3	870	29.7	6.9	12.0	156	--	--
			1.5	900	29.6	6.8	11.2	145	--	--
			3.7	930	29.3	6.9	9.0	115	--	--
AUG 10, 73	1150	2	.3	--	30.3	7.5	6.4	84	--	--
			1.5	--	29.6	7.4	6.1	79	--	--
			4.0	--	29.5	7.4	4.0	52	--	--
					LINE 20					
DEC 06, 71	1537	2	.3	1000	15.0	7.6	10.0	98	--	41
			1.5	1000	15.1	7.6	10.0	98	--	--
			4.0	1000	15.1	7.7	10.2	100	--	--
MAR 14, 72	1710	2	.3	1300	21.1	7.7	9.8	109	--	27
			1.5	1300	21.1	7.7	9.8	109	--	--
			3.0	1300	21.1	7.6	9.8	109	--	--
			3.7	1300	21.2	7.6	11.7	130	--	--
MAY 15, 72	1550	2	.3	930	28.2	8.1	14.8	187	--	51
			.9	940	27.5	7.8	12.4	155	--	--
			1.5	940	27.0	7.7	9.8	121	--	--
			3.0	1000	27.0	7.5	8.0	99	--	--
			4.0	1200	27.3	7.1	5.7	71	--	--
JUL 17, 72	1725	2	.3	1200	29.8	7.5	9.4	124	--	28
			1.5	1200	29.8	7.5	9.1	120	--	--
			3.4	1100	29.9	7.4	9.2	121	--	--
DEC 11, 72	1410	2	.3	1200	9.8	7.9	12.4	109	--	--
			1.5	1200	9.9	7.9	12.0	106	--	--
			3.0	1200	9.9	7.9	12.8	113	--	--
			4.3	1200	9.6	7.9	13.2	116	--	--

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

WATER YEARS 1972 AND 1973--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 20 CONTINUED					
MAR 19, 73	1300	2	.3	1000	19.0	7.5	9.8	104	--	18
			1.5	1000	18.9	7.5	9.5	101	--	--
			3.0	990	18.9	7.5	9.0	96	--	--
			3.7	1000	18.9	7.5	8.9	95	--	--
AUG 02, 73	1025	2	.3	800	29.8	7.3	11.2	144	--	--
			1.5	800	29.8	7.3	11.6	149	--	--
			3.7	800	29.6	7.2	10.8	140	--	--
AUG 10, 73	1135	2	.3	--	30.5	7.6	6.3	83	--	--
			1.5	--	29.5	7.5	6.1	79	--	--
			4.0	--	29.0	7.2	6.0	77	--	--
					LINE 30					
DEC 06, 71	1515	2	.3	1200	14.7	7.8	10.0	97	--	30
			1.5	1200	14.7	7.8	10.1	98	--	--
			4.0	1200	14.8	7.7	10.5	103	--	--
MAR 14, 72	1725	2	.3	1700	21.3	7.9	9.9	111	--	18
			1.5	1700	21.3	7.9	9.9	111	--	--
			4.0	1700	21.4	7.9	10.0	112	--	--
APR 26, 72	1006	2	.3	1600	25.4	7.9	8.8	106	--	23
			1.5	1600	25.4	7.9	8.7	105	--	--
			3.0	1600	25.4	7.9	8.6	104	--	--
			4.0	1600	25.7	7.9	8.4	101	--	--
MAY 15, 72	1610	2	.3	1200	27.2	8.2	10.2	126	--	41
			1.5	1200	26.1	8.1	9.6	117	--	--
			3.0	1200	25.8	7.9	7.9	96	--	--
			4.3	1300	26.1	7.9	7.4	90	--	--
JUL 17, 72	1745	2	.3	1400	29.6	7.8	9.2	119	--	25
			1.8	1400	29.7	7.7	9.0	117	--	--
			3.7	1400	29.7	7.7	9.4	122	--	--
DEC 11, 72	1440	2	.3	1600	8.2	8.1	13.5	114	--	--
			1.5	1600	8.5	8.1	13.4	114	--	--
			3.4	1600	8.4	8.1	13.3	113	--	--
MAR 19, 73	1319	2	.3	1800	18.5	7.7	9.7	103	--	15
			1.5	1800	18.5	7.7	9.3	99	--	--
			3.0	1800	18.5	7.7	9.0	96	--	--
AUG 02, 73	1040	2	.3	800	30.2	7.5	11.8	155	--	--
			1.5	800	30.2	7.5	10.5	138	--	--
			3.7	800	30.2	7.5	12.0	158	--	--
AUG 10, 73	1125	2	.3	--	30.3	7.8	6.4	84	--	--
			1.5	--	29.6	7.7	6.6	86	--	--
			3.4	--	29.6	7.7	6.2	81	--	--
					LINE 40					
DEC 06, 71	1500	2	.3	1200	14.8	8.0	9.9	96	--	30
			1.5	1300	14.7	8.0	10.2	99	--	--
			3.0	1300	14.6	8.0	10.8	105	--	--
MAR 14, 72	1735	2	.3	1500	22.1	7.6	8.9	101	150	18
			1.5	1500	22.1	7.6	8.9	101	160	--
			3.2	1500	22.5	7.6	10.1	111	200	--
APR 26, 72	0950	2	.3	2000	25.2	8.1	8.5	102	--	33
			1.5	2000	25.3	8.2	8.3	101	--	--
			3.4	2200	25.4	8.2	8.2	100	--	--
MAY 15, 72	1630	2	.3	610	26.3	7.4	4.8	59	--	23

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

WATER YEARS 1972 AND 1973--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						
MAY 15, 72	1630	2	1.5	650	25.9	7.4	4.6	56	--	--
			3.0	660	25.8	7.4	4.6	56	--	--
			4.0	620	26.1	7.4	4.8	59	--	--
JUL 17, 72	1800	2	.3	1500	29.8	8.1	10.0	132	--	23
			1.8	1500	29.5	8.0	9.1	118	--	--
			3.7	1400	29.6	8.0	8.8	114	--	--
DEC 11, 72	1510	2	.3	3600	8.8	8.3	12.3	106	--	--
			1.5	3600	9.0	8.3	12.4	109	--	--
			3.0	5500	8.8	8.2	12.7	111	--	--
MAR 19, 73	1333	2	.3	2300	19.0	8.1	9.4	101	--	25
			1.5	2300	18.9	8.1	8.7	94	--	--
			3.0	2300	18.9	8.1	8.4	90	--	--
AUG 02, 73	1055	2	.3	800	29.8	7.8	11.8	155	--	--
			1.5	800	29.8	7.8	10.8	142	--	--
			3.7	800	29.7	7.8	11.1	144	--	--
AUG 10, 73	1215	2	1.5	--	29.6	8.1	--	--	--	--
			3.7	--	29.8	8.0	--	--	--	--
				LINE 50						
DEC 06, 71	1430	2	.3	1200	14.7	8.1	9.6	93	--	30
			1.5	1200	14.7	8.2	9.7	94	--	--
			4.0	4900	14.7	7.9	10.1	99	--	--
MAR 14, 72	1715	2	.3	2000	22.0	7.9	9.5	109	90	23
			1.5	2000	22.3	7.9	9.9	114	105	--
			3.4	3400	22.8	7.9	10.7	124	90	--
APR 26, 72	0928	2	.3	7500	25.7	8.1	6.3	78	--	25
			1.5	7500	25.7	8.1	6.1	75	--	--
			3.4	7800	25.8	8.1	6.1	76	--	--
MAY 15, 72	1650	2	.3	630	27.0	7.5	5.8	72	--	20
			1.5	600	26.1	7.4	5.0	61	--	--
			2.7	600	25.1	7.4	4.6	55	--	--
			3.7	560	25.6	7.4	4.8	58	--	--
JUL 17, 72	1820	2	.3	1500	29.9	8.0	9.2	121	--	30
			2.1	1500	29.9	8.0	9.6	126	--	--
			4.3	1500	29.9	8.0	9.4	124	--	--
DEC 11, 72	1535	2	.3	12000	8.8	8.2	11.8	105	--	--
			1.5	12000	9.1	8.2	11.4	103	--	--
			3.0	15000	8.9	8.1	12.5	114	--	--
MAR 19, 73	1350	2	.3	4300	19.0	8.3	10.3	111	--	32
			1.5	4400	18.9	8.3	9.7	105	--	--
			3.0	4600	18.9	8.2	9.3	101	--	--
			3.7	4600	18.9	8.2	9.1	99	--	--
AUG 02, 73	1110	2	.3	1300	29.8	7.9	12.2	161	--	--
			1.5	1300	29.8	7.9	11.0	145	--	--
			3.7	1300	29.7	7.9	10.8	140	--	--
AUG 10, 73	1100	2	.3	--	30.1	8.2	6.6	87	--	--
			3.0	--	29.6	8.1	7.5	97	--	--
			4.0	--	29.6	8.1	7.8	101	--	--
				LINE 52						
MAY 15, 72	1700	2	.8	2000	28.6	8.5	11.3	145	--	--
				LINE 60						
DEC 06, 71	1420	2	.3	2500	14.7	8.1	8.9	87	--	43

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

WATER YEARS 1972 AND 1973--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 60 CONTINUED						
DEC 06, 71	1420	2	1.5	3000	14.6	8.1	8.7	85	--	--
			3.7	13000	14.7	7.7	7.1	72	--	--
MAR 14, 72	1700	2	.3	6000	22.4	8.1	10.4	121	80	28
			1.5	6000	22.4	8.0	9.6	112	115	--
			3.4	6200	22.4	8.0	11.0	128	75	--
MAY 15, 72	1720	2	.3	1100	26.9	7.8	6.0	74	--	27
			1.5	1200	25.9	7.6	4.6	56	--	--
			2.4	1200	25.9	7.6	4.6	56	--	--
			3.0	4100	25.5	7.5	3.2	39	--	--
JUL 17, 72	1840	2	.3	1800	29.8	8.1	9.4	124	--	22
			1.7	1800	29.5	8.0	8.2	106	--	--
			3.4	1700	29.5	8.0	7.8	101	--	--
DEC 12, 72	0900	2	.3	14000	8.6	7.8	10.2	92	--	--
			1.5	15000	8.6	7.8	9.8	88	--	--
			2.4	22000	8.7	7.8	10.0	93	--	--
MAR 19, 73	1402	2	.3	5000	19.5	8.1	10.1	110	--	46
			.9	5000	19.3	8.1	9.5	103	--	--
			1.5	5200	19.1	8.0	8.4	91	--	--
			3.4	7000	19.0	8.1	8.8	96	--	--
AUG 02, 73	1120	2	.3	1400	30.1	7.9	11.2	147	--	--
			1.5	1400	30.1	7.9	9.8	129	--	--
			3.4	1400	30.0	7.9	10.2	134	--	--
AUG 10, 73	1050	2	.3	--	30.4	8.2	6.4	84	--	--
			1.5	--	30.2	8.1	6.6	87	--	--
			3.4	--	30.1	8.1	6.8	89	--	--
				LINE 71						
DEC 06, 71	1410	2	.3	5600	15.2	8.0	8.7	87	--	33
			1.5	5800	15.4	8.0	8.6	87	--	--
			4.0	13000	16.1	7.7	5.9	60	--	--
MAR 14, 72	1655	2	.3	6500	22.2	8.2	11.3	131	50	33
			1.5	7000	21.9	8.1	9.8	114	60	--
			4.0	8000	21.9	8.0	10.0	116	55	--
MAY 15, 72	1730	2	.3	1900	26.2	7.7	5.7	71	--	33
			1.5	2300	25.3	7.5	2.8	34	--	--
			3.0	2300	25.3	7.5	2.3	28	--	--
			4.3	3800	25.5	7.5	2.1	26	--	--
JUL 17, 72	1830	2	.3	1800	30.0	8.1	9.0	118	--	23
			1.8	1800	29.5	7.9	7.6	99	--	--
			3.8	1800	29.2	7.8	7.0	90	--	--
DEC 12, 72	0910	2	.3	17000	8.5	7.8	10.6	96	--	--
			.9	20000	8.5	7.8	10.3	94	--	--
			1.5	18000	9.0	7.8	11.9	109	--	--
			3.4	20000	9.1	7.7	10.4	96	--	--
MAR 19, 73	1412	2	.3	6500	19.1	8.2	10.4	113	--	46
			1.5	6500	19.1	8.2	9.9	108	--	--
			3.0	6500	19.0	8.2	9.7	105	--	--
			3.7	6500	19.0	8.2	9.5	103	--	--
AUG 02, 73	1135	2	.3	1400	30.6	7.9	9.0	120	--	--
			1.5	1400	30.6	7.8	11.6	155	--	--
			3.7	1400	30.6	7.8	8.6	115	--	--
AUG 10, 73	1045	2	.3	--	30.4	8.3	7.3	96	--	--
			1.5	--	30.1	8.2	7.8	103	--	--

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

WATER YEARS 1972 AND 1973--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 71 CONTINUED					
AUG 10, 73	1045	2	3.4	--	30.0	8.2	7.8	103	--	--
					LINE 79					
AUG 02, 73	1125	2	.3	1400	30.0	7.9	10.0	132	--	--
			1.5	1400	30.0	7.9	9.4	124	--	--
			3.4	1400	29.9	7.9	8.8	116	--	--
AUG 10, 73	1040	2	.3	--	30.1	8.3	9.4	124	--	--
			1.5	--	29.8	8.2	9.2	121	--	--
			3.7	--	29.7	8.0	8.8	114	--	--
					LINE 80					
DEC 06, 71	1345	2	.3	6900	15.0	8.1	9.1	91	--	15
			1.5	7400	15.0	8.1	9.2	92	--	--
			4.0	18000	14.5	8.0	9.5	98	--	--
MAR 14, 72	1630	2	.3	11000	22.6	8.2	10.0	118	85	18
			1.5	11000	22.6	8.2	10.6	125	95	--
			4.0	11000	22.9	8.2	11.4	134	95	--
APR 26, 72	0902	2	.3	19000	25.1	8.2	7.2	91	--	41
			1.5	19000	25.0	8.2	7.0	89	--	--
			3.4	19000	25.0	8.2	7.1	90	--	--
MAY 15, 72	1745	2	.3	1500	26.3	7.8	5.7	69	--	20
			1.5	1800	25.0	7.6	5.2	62	--	--
			2.4	1500	24.8	8.0	4.3	54	--	--
			3.0	17000	24.9	8.0	3.9	49	--	--
			4.0	21000	25.4	7.9	3.8	49	--	--
JUL 17, 72	1850	2	.3	3200	29.5	8.2	9.9	130	--	18
			1.8	3100	29.6	8.2	9.5	125	--	--
			3.7	3000	29.4	8.2	9.1	120	--	--
SEP 20, 72	1430	2	.3	2800	31.0	8.3	7.3	99	--	20
			1.5	2600	30.9	8.2	7.0	95	--	--
			4.0	2600	30.5	8.2	6.3	85	--	--
DEC 12, 72	0925	2	.3	17000	7.8	7.9	10.8	96	--	--
			1.5	29000	7.7	7.9	10.3	96	--	--
			3.4	34000	7.4	7.9	11.2	107	--	--
MAR 19, 73	1425	2	.3	9200	19.0	8.1	9.3	102	--	30
			1.5	9400	18.9	8.1	9.1	100	--	--
			3.4	9500	18.9	8.0	8.7	96	--	--
MAY 15, 73	1315	2	.3	3000	23.9	8.5	8.3	99	--	15
			1.5	7000	23.3	8.4	6.9	82	--	--
			3.0	13000	23.0	8.5	6.6	79	--	--
			3.7	13000	23.0	8.6	6.9	82	--	--
AUG 02, 73	1145	2	.3	1400	30.1	7.9	10.8	142	--	--
			1.5	1400	30.0	7.9	10.0	132	--	--
			3.4	1400	29.8	7.9	9.0	118	--	--
AUG 10, 73	1025	2	.3	--	29.6	8.3	7.1	92	--	--
			1.5	--	29.4	8.3	7.0	91	--	--
			4.0	--	29.4	8.1	10.0	130	--	--
					LINE 145					
DEC 07, 71	1330	2	.3	610	15.8	7.6	6.2	82	--	13
			1.5	610	15.8	7.6	6.2	82	--	--
			3.4	610	15.8	7.6	6.2	82	--	--

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

WATER YEARS 1972 AND 1973--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 145 CONTINUED						
MAR 14, 72	0945	2	.3	790	21.4	7.9	8.1	91	--	28
			1.5	790	21.4	7.9	8.1	91	--	--
			2.7	720	21.4	7.9	8.2	92	--	--
APR 24, 72	1320	2	.3	760	29.1	7.8	7.6	97	--	20
			.9	760	29.1	7.8	7.6	97	--	--
			2.1	830	29.3	8.0	7.5	97	--	--
JUL 17, 72	1230	2	.3	750	29.3	7.7	7.2	94	--	15
			1.5	750	29.3	7.8	7.2	94	--	--
			2.7	750	29.4	7.8	7.1	92	--	--
SEP 20, 72	1605	2	.3	740	30.9	8.0	6.3	84	--	20
			1.8	760	30.9	8.0	6.6	88	--	--
DEC 13, 72	1015	2	.3	750	9.3	--	11.6	101	--	--
			1.5	750	9.5	--	11.8	104	--	--
MAR 19, 73	1620	2	.3	750	19.9	8.0	7.6	83	--	15
			1.5	820	19.9	8.0	7.4	80	--	--
			2.4	750	19.8	8.0	7.4	80	--	--
MAY 15, 73	1855	2	.3	470	23.2	8.1	9.0	103	--	--
			1.5	670	23.2	8.1	9.2	106	--	--
			3.0	690	23.2	8.1	8.9	102	--	--
AUG 02, 73	1340	2	.3	610	29.2	7.6	11.1	142	--	--
			1.5	620	29.2	7.6	12.0	154	--	--
			4.6	640	29.2	7.6	12.6	162	--	--
AUG 10, 73	1400	2	.3	--	29.0	7.9	--	--	--	--
			3.0	--	29.0	7.9	--	--	--	--
			5.2	--	29.0	7.8	--	--	--	--
				LINE 153						
DEC 07, 71	1310	2	.3	610	15.6	7.6	8.4	83	--	13
			1.5	610	15.6	7.6	8.4	83	--	--
			3.0	610	15.6	7.6	8.2	81	--	--
			6.1	610	15.8	7.6	8.2	82	--	--
APR 24, 72	1350	2	.3	900	30.2	7.6	7.0	92	--	20
			1.5	900	30.3	7.6	7.0	92	--	--
			3.0	830	30.1	7.6	7.8	103	--	--
			4.6	900	30.9	7.8	6.4	85	--	--
JUL 17, 72	1300	2	.3	750	29.5	7.7	7.2	94	--	18
			4.9	750	29.5	7.7	8.2	106	--	--
DEC 13, 72	1000	2	.3	740	9.8	--	12.4	109	--	--
			1.5	740	9.9	--	12.3	109	--	--
			3.7	740	9.8	--	12.5	110	--	--
MAR 19, 73	1645	2	.3	800	19.8	7.9	7.5	82	--	--
			1.5	790	19.8	7.9	7.0	76	--	--
			3.0	790	19.8	8.0	7.0	76	--	--
			3.7	790	19.7	8.0	7.0	75	--	--
AUG 02, 73	1400	2	.3	--	29.2	7.6	12.8	164	--	--
			1.5	--	29.2	7.6	11.9	146	--	--
			4.6	--	29.3	7.6	10.2	132	--	--
				LINE 160						
DEC 07, 71	1245	2	.3	610	15.8	7.6	8.0	80	--	10
			1.5	610	15.8	7.6	8.0	80	--	--
			3.0	610	15.8	7.6	8.0	80	--	--

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

WATER YEARS 1972 AND 1973--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 160 CONTINUED					
MAR 14, 72	1045	2	.3	730	22.2	7.9	8.5	97	--	19
			1.5	730	22.4	7.9	8.5	97	--	--
			4.3	730	22.7	8.0	8.6	99	--	--
APR 24, 72	1415	2	.3	840	29.8	7.8	6.7	88	--	22
			1.5	830	30.2	7.8	6.6	87	--	--
			3.7	850	30.5	7.8	6.5	87	--	--
JUL 17, 72	1315	2	.3	750	29.7	7.7	8.7	113	--	18
			4.6	750	29.9	7.7	9.0	118	--	--
DEC 13, 72	0935	2	.3	750	10.1	--	12.2	108	--	--
			1.5	750	10.0	--	12.4	110	--	--
			3.4	750	10.0	--	12.2	108	--	--
MAR 19, 73	1705	2	.3	800	19.7	8.0	7.2	77	--	--
			1.5	800	19.7	8.0	7.0	75	--	--
			3.4	800	19.5	8.0	6.9	74	--	--
AUG 02, 73	1420	2	.3	--	29.1	7.6	10.6	136	--	--
			1.5	--	29.1	7.6	10.6	136	--	--
			4.6	--	29.1	7.6	12.0	154	--	--
					LINE 170					
DEC 07, 71	1220	2	.3	660	15.7	7.6	8.0	79	--	10
			1.5	660	15.7	7.6	8.0	79	--	--
			3.4	660	15.8	7.6	8.0	80	--	--
MAR 14, 72	1110	2	.3	730	23.6	7.9	8.6	100	--	15
			1.8	730	23.7	7.9	8.7	101	--	--
APR 24, 72	1435	2	.3	810	30.4	7.8	7.2	95	--	23
			2.7	810	30.7	7.8	6.6	88	--	--
MAY 15, 72	1340	2	.3	300	25.4	7.3	4.4	53	--	--
			1.5	300	24.9	7.3	4.4	52	--	--
			3.7	240	25.0	7.3	4.6	55	--	9
JUN 14, 72	0930	2	.3	700	27.7	7.6	7.4	92	--	13
			3.4	700	27.6	7.6	7.0	88	--	--
JUL 17, 72	1425	2	.3	750	--	7.7	--	--	--	17
			2.7	730	30.0	7.7	7.2	95	--	--
SEP 20, 72	1705	2	.3	700	31.1	8.0	5.8	77	--	25
			1.5	710	31.1	8.0	5.8	77	--	--
			2.7	700	31.3	8.0	6.2	83	--	--
DEC 13, 72	0900	2	.3	780	8.8	--	9.8	84	--	--
			1.5	780	8.7	--	9.8	84	--	--
			2.4	850	8.2	--	10.2	86	--	--
MAR 19, 73	1725	2	.3	780	19.7	8.0	7.2	77	--	--
			1.5	780	19.7	8.0	7.2	77	--	--
			2.7	790	19.6	8.0	6.8	73	--	--
MAY 15, 73	1630	2	.3	710	23.6	8.1	8.8	102	--	15
			1.5	710	23.6	8.1	8.4	98	--	--
			3.0	710	23.5	8.2	8.7	101	--	--
AUG 02, 73	1430	2	.3	--	29.2	7.6	10.0	128	--	--
			1.5	--	29.1	7.6	11.2	144	--	--
			3.0	--	29.1	7.6	11.2	144	--	--
AUG 10, 73	1325	2	.3	--	29.5	7.9	--	--	--	--
			1.5	--	29.4	7.9	--	--	--	--
			3.0	--	29.5	7.9	--	--	--	--

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

WATER YEARS 1972 AND 1973--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 191					
DEC 07, 71	1125	2	.3	660	15.1	7.6	7.8	76	--	30
			.6	660	15.1	7.1	7.1	70	--	--
APR 24, 72	1455	2	.3	900	29.3	8.2	10.0	130	--	43
			.8	890	29.3	8.2	9.9	129	--	--
MAY 15, 72	1305	2	.3	230	24.9	7.3	5.0	59	--	--
			1.2	230	24.8	7.3	5.2	62	--	13
JUL 17, 72	1407	2	.3	680	30.0	7.9	9.4	124	--	36
			.8	650	29.4	8.1	10.1	131	--	--
AUG 02, 73	1245	2	.6	1200	29.2	7.5	11.0	141	--	--
					LINE 197					
DEC 07, 71	1145	1	.3	660	15.5	7.5	7.9	78	--	30
			.6	610	15.4	7.5	8.2	81	--	--
APR 24, 72	1505	1	.3	890	30.0	9.4	8.1	124	--	20
			.8	890	30.0	8.1	9.5	125	--	--
MAY 15, 72	1315	1	.3	280	25.0	7.2	3.6	43	--	--
			1.2	280	24.6	7.1	2.6	31	--	17
JUL 17, 72	1355	1	.3	730	30.8	7.7	7.6	101	--	27
			.8	710	31.1	7.7	8.2	109	--	--
DEC 07, 71	1150	2	.3	660	15.6	7.6	8.4	83	--	30
			.6	660	15.5	7.6	8.8	87	--	--
APR 24, 72	1508	2	.3	840	29.8	8.2	10.0	132	--	19
			.6	840	29.7	8.2	10.1	131	--	--
APR 24, 72	1505	2	.3	750	30.0	8.1	9.4	124	--	20
			.8	750	30.0	8.1	9.5	125	--	--
MAY 15, 72	1320	2	.3	310	24.6	7.2	2.6	31	--	--
			1.2	310	24.6	7.2	2.8	33	--	13
JUL 17, 72	1400	2	.3	730	31.0	7.8	9.2	123	--	25
			.8	730	30.7	7.8	9.8	131	--	--
AUG 02, 73	1250	2	.6	1200	29.1	7.6	12.0	154	--	--
					LINE 200					
DEC 07, 71	1120	2	.3	610	15.1	7.6	8.0	78	--	53
			.9	660	15.0	7.6	8.4	82	--	--
MAR 14, 72	1130	2	.3	780	23.0	8.2	9.3	107	--	53
			.9	780	23.2	8.2	9.4	108	--	--
APR 24, 72	1445	2	.3	780	29.4	8.6	12.5	162	--	36
			.9	780	29.6	8.6	12.0	156	--	--
MAY 15, 72	1300	2	.3	240	24.5	7.5	4.8	57	--	--
			1.5	240	24.8	7.5	6.3	75	--	13
JUL 17, 72	1412	2	.3	700	30.0	7.9	9.8	129	--	38
			1.1	690	29.3	7.9	9.4	122	--	38
SEP 20, 72	1728	2	.3	680	30.7	8.6	10.9	145	--	43
			.9	700	30.8	8.6	11.2	149	--	--

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

WATER YEARS 1972 AND 1973--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 200 CONTINUED					
DEC 12, 72	1100	2	.3	800	6.1	8.0	13.7	110	--	--
			.9	800	6.2	8.1	13.8	111	--	--
DEC 13, 72	0845	2	.3	800	6.2	--	11.2	90	--	--
			.6	850	6.1	--	11.4	91	--	--
MAR 19, 73	1520	2	.3	760	18.6	8.2	8.4	89	--	15
			1.1	800	18.6	8.2	8.1	86	--	--
MAY 15, 73	1610	2	.3	590	22.8	8.3	10.6	122	--	25
			.9	730	22.3	8.4	10.2	116	--	--
AUG 02, 73	1240	2	.3	550	29.0	7.4	9.1	117	--	--
			.9	1200	28.9	7.4	9.0	115	--	--
AUG 10, 73	1310	2	.3	--	31.0	8.0	--	--	--	--
			1.2	--	30.9	8.0	--	--	--	--
					LINE 214					
DEC 07, 71	1105	1	.3	610	14.9	7.7	8.3	81	--	41
			.6	610	14.8	7.7	8.7	85	--	--
MAR 14, 72	1200	1	.3	730	22.9	8.2	9.8	114	--	56
			1.2	730	22.9	8.2	10.1	116	--	--
APR 24, 72	1520	1	.3	890	28.9	8.4	13.0	167	--	51
			1.1	840	29.1	8.4	12.6	162	--	--
MAY 15, 72	1220	1	.3	240	24.5	7.4	5.2	62	--	--
			1.2	240	24.6	7.4	5.6	67	--	15
JUL 17, 72	1440	1	.3	710	30.5	7.9	10.2	134	--	33
			.9	680	29.9	8.0	11.0	145	--	--
DEC 12, 72	1010	1	.3	5000	6.4	8.1	13.3	108	--	--
			.9	5400	6.4	8.1	13.1	108	--	--
MAR 19, 73	1507	1	.3	1000	18.6	8.2	8.5	90	--	15
			.9	1000	18.6	8.2	8.6	91	--	--
AUG 02, 73	1230	1	.3	1200	28.7	7.4	8.8	113	--	--
			.9	1200	28.7	7.4	8.6	110	--	--
DEC 07, 71	1100	2	.3	560	14.8	7.8	8.5	83	--	43
			.9	560	14.8	7.9	9.0	88	--	--
MAR 14, 72	1155	2	.3	730	23.7	8.5	11.7	136	--	52
			.9	730	23.7	8.5	12.2	142	--	--
MAR 16, 72	0805	2	.3	680	20.9	8.2	11.8	131	--	--
			.6	780	20.8	8.2	11.0	122	--	--
			.9	780	20.4	8.1	12.0	132	--	--
APR 24, 72	1515	2	.3	830	29.5	8.6	13.6	177	--	30
			.9	830	29.7	8.6	13.7	178	--	--
MAY 15, 72	1215	2	.3	330	24.6	7.4	2.9	34	--	--
			1.2	330	24.7	7.4	3.2	38	--	13
JUL 17, 72	1445	2	.3	700	30.0	7.9	9.6	126	--	34
			.9	680	29.6	7.9	10.2	132	--	--
DEC 12, 72	1015	2	.3	750	6.8	8.2	13.1	106	--	--
			.6	5400	8.1	8.1	12.2	105	--	--
MAR 19, 73	1512	2	.3	820	20.1	8.0	8.0	87	--	--
			.9	960	19.9	8.0	7.8	85	--	--

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

WATER YEARS 1972 AND 1973--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					
AUG 02, 73	1225	2	.6	1200	28.7	7.6	11.8	151	--	--
					LINE 225					
DEC 07, 71	1055	1	.3	510	14.8	7.8	8.8	86	--	38
			.9	560	14.7	7.9	8.9	86	--	--
MAR 14, 72	1210	1	.3	830	22.0	8.4	10.1	115	--	47
			.9	830	22.0	8.4	10.4	118	--	--
APR 24, 72	1540	1	.3	3900	29.1	8.7	13.9	160	--	36
			.6	4200	29.2	8.8	13.9	160	--	--
			.9	9600	28.5	8.4	8.2	108	--	--
MAY 15, 72	1205	1	.3	290	24.6	7.5	6.0	71	--	--
			1.1	290	24.9	7.5	6.2	74	--	13
MAY 22, 72	1330	1	.3	150	26.9	7.5	6.6	81	--	13
			.9	150	26.9	7.5	6.4	79	--	--
MAY 22, 72	1340	1	.3	150	26.9	7.5	6.6	81	--	13
			.9	150	26.9	7.5	6.4	79	--	--
			.3	150	26.9	7.5	6.6	81	--	13
			.9	150	26.9	7.5	6.5	79	--	--
JUN 14, 72	1000	1	.3	610	28.2	7.9	8.4	106	--	36
			.9	610	28.0	7.9	7.6	96	--	--
JUL 17, 72	1450	1	.3	780	30.1	8.1	11.3	149	--	41
			.9	1100	29.1	8.2	11.1	142	--	--
SEP 20, 72	1800	1	.3	750	30.5	8.8	9.0	118	--	23
			.9	710	30.3	8.8	9.3	122	--	--
DEC 12, 72	1000	1	.3	9800	6.5	8.1	13.0	108	--	--
			.8	9800	6.5	8.1	12.8	107	--	--
MAR 19, 73	1458	1	.3	1600	18.5	8.3	9.1	97	--	13
			.8	1700	18.5	8.2	8.7	93	--	--
MAY 15, 73	1600	1	.3	620	22.3	8.5	11.0	125	--	20
			.9	580	22.2	8.5	11.1	126	--	--
AUG 02, 73	1220	1	.3	1200	28.9	7.4	7.2	92	--	--
			.9	1200	28.8	7.4	7.6	97	--	--
DEC 07, 71	1045	2	.3	610	14.7	7.8	8.6	83	--	38
			.9	610	14.6	7.8	8.8	85	--	--
MAR 14, 72	1230	2	.3	1200	22.4	8.4	10.3	117	--	46
			.9	1500	22.3	8.4	10.5	119	--	--
APR 24, 72	1530	2	.3	2100	28.8	9.0	16.3	209	--	38
			1.2	2100	28.8	9.0	16.3	209	--	--
MAY 15, 72	1150	2	.3	340	24.9	6.9	4.2	50	--	--
			1.5	340	24.9	7.4	3.3	39	--	8
MAY 22, 72	1340	2	.3	220	27.0	7.4	5.6	69	--	13
			1.2	220	27.0	7.4	5.6	69	--	--
JUN 14, 72	1005	2	.3	700	27.7	7.8	7.9	99	--	30
			1.2	700	27.7	7.9	6.2	102	--	--
JUL 17, 72	1455	2	.3	750	30.1	8.0	11.2	147	--	36
			1.2	690	29.3	8.1	11.0	143	--	--
SEP 20, 72	1802	2	.3	1200	30.4	8.6	8.1	107	--	28

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

WATER YEARS 1972 AND 1973--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 225 CONTINUED					
SEP 20, 72	1802	2	1.2	1100	30.3	8.6	8.4	111	--	--
DEC 12, 72	0950	2	.3	14000	6.6	8.0	12.9	109	--	--
			.9	14000	6.6	8.0	13.0	110	--	--
MAR 19, 73	1450	2	.3	1300	18.8	8.2	9.0	96	--	13
			1.2	1300	18.7	8.3	8.8	94	--	--
MAY 15, 73	1555	2	.3	880	21.4	8.5	10.4	117	--	13
			1.2	880	21.4	8.5	10.7	120	--	--
AUG 02, 73	1215	2	.3	1200	28.6	7.7	9.2	118	--	--
			.9	1200	28.4	7.7	9.5	120	--	--
					LINE 236					
DEC 07, 71	1020	1	.3	4000	14.3	8.1	9.3	91	--	61
			.6	4900	14.2	8.3	10.8	105	--	--
MAR 14, 72	1515	1	.3	5600	23.1	8.6	10.9	128	--	13
			.8	5600	23.1	8.6	11.0	129	--	--
APR 24, 72	1241	1	.3	14000	28.1	8.4	9.7	128	--	51
			.9	14000	28.0	8.4	8.7	114	--	--
MAY 15, 72	1245	1	.3	5100	24.6	8.1	9.6	117	--	61
			1.2	5100	24.8	8.1	9.6	117	--	--
MAY 17, 72	0848	1	.3	3400	24.0	8.3	8.7	104	--	30
			.6	3400	24.0	8.3	8.6	102	--	--
			1.2	3300	24.0	8.2	9.1	108	--	--
JUL 17, 72	1345	1	.3	980	28.3	8.7	13.6	172	--	--
			.9	1700	27.0	8.5	8.8	109	--	--
SEP 20, 72	1820	1	.3	3400	30.3	8.7	8.2	108	--	10
			.9	3600	30.2	8.6	8.9	119	--	--
MAY 15, 73	1535	1	.3	1200	21.5	8.6	11.2	126	--	25
			.9	1100	21.5	8.7	11.4	128	--	--
AUG 02, 73	0907	1	.3	600	27.9	7.9	6.2	78	--	23
			.6	620	27.8	7.9	6.2	78	--	--
AUG 10, 73	1624	1	.3	700	22.9	8.2	6.7	77	--	13
			.8	700	22.8	8.1	7.1	82	--	--
DEC 07, 71	1015	2	.3	4000	14.2	8.3	10.0	97	--	36
			.9	5900	14.2	8.3	10.1	99	--	--
MAR 14, 72	1500	2	.3	5900	23.2	8.7	11.5	135	--	14
			1.1	5900	23.2	8.7	11.3	133	--	--
MAR 16, 72	0925	2	.3	5700	21.4	8.5	10.8	124	--	28
			.6	5700	21.2	8.5	10.6	120	--	--
			.9	4900	21.2	8.4	10.9	122	--	--
APR 24, 72	1303	2	.3	13000	27.7	8.4	10.0	130	--	25
			.9	13000	28.0	8.4	9.9	130	--	--
MAY 15, 72	1307	2	.3	5400	24.6	8.3	9.3	113	--	51
			1.4	5400	24.2	8.2	7.8	94	--	--
MAY 17, 72	0854	2	.3	4100	24.4	8.6	9.3	111	--	25
			1.4	4000	24.4	8.5	9.1	108	--	--
MAY 22, 72	1310	2	.3	630	26.6	8.0	8.0	99	--	10
			1.2	650	26.6	8.0	8.0	99	--	--

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

WATER YEARS 1972 AND 1973--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						
JUN 14, 72	1110	2	.3	2000	28.4	8.1	8.3	106	--	15
			1.2	2200	28.4	8.1	8.1	104	--	--
JUL 17, 72	1335	2	.3	2000	28.4	8.7	12.2	154	--	25
			.9	2000	27.7	8.5	11.0	138	--	--
SEP 20, 72	1825	2	.3	5700	30.2	8.6	7.8	105	--	10
			.9	5700	30.2	8.6	8.0	108	--	--
DEC 12, 72	1220	2	.3	19000	6.9	8.2	11.2	98	200	25
			.9	20000	7.4	8.2	9.1	81	200	--
MAR 19, 73	1545	2	.3	8200	20.0	8.3	10.2	115	80	43
			.9	8200	19.9	8.3	10.2	115	80	--
MAY 15, 73	1525	2	.3	1900	21.4	8.5	10.6	120	--	13
			.9	2000	21.4	8.5	10.9	124	--	--
AUG 02, 73	0913	2	.3	630	27.9	8.0	6.9	87	--	33
			.6	630	27.8	8.0	6.9	87	--	--
AUG 10, 73	1630	2	.3	920	23.1	8.3	7.1	82	--	13
			.9	920	23.1	8.2	7.2	83	--	--
DEC 07, 71	1010	3	.3	4500	14.2	8.4	10.4	101	--	30
			.9	6400	14.2	8.2	10.1	99	--	--
MAR 14, 72	1450	3	.3	6100	23.2	8.7	11.4	134	--	18
			1.2	6100	23.2	8.7	11.2	132	--	--
APR 24, 72	1311	3	.3	13000	27.8	8.4	10.2	134	--	30
			.8	13000	27.0	8.4	9.7	124	--	--
MAY 15, 72	1316	3	.3	6500	24.2	8.4	10.8	130	--	58
			1.4	6200	25.0	8.1	7.6	93	--	--
MAY 17, 72	0901	3	.3	4000	24.5	8.5	8.7	104	--	23
			1.4	3900	24.5	8.5	8.7	104	--	--
JUL 17, 72	1325	3	.3	1900	27.6	8.6	11.7	148	--	30
			1.1	2200	27.3	8.5	9.9	125	--	--
SEP 20, 72	1830	3	.3	2500	30.0	8.6	8.5	113	--	10
			.9	2500	30.0	8.6	8.8	117	--	--
MAR 19, 73	1535	3	.3	8200	20.0	8.3	--	--	160	--
			.9	8200	19.9	8.3	--	--	150	28
MAY 15, 73	1520	3	.3	1200	21.1	8.5	11.0	122	--	13
			.9	1200	21.2	8.5	11.1	123	--	--
AUG 02, 73	0919	3	.3	750	27.9	8.0	7.1	90	--	28
			.6	750	27.5	8.0	7.2	90	--	--
AUG 10, 73	1635	3	.3	700	23.1	8.3	7.1	82	--	10
			.9	700	23.0	8.3	7.3	83	--	--
				LINE 243						
DEC 07, 71	0845	1	.3	3500	13.4	--	8.8	85	--	43
			.6	5900	13.4	--	8.7	84	--	--
SEP 21, 72	1240	1	.3	3900	31.6	8.6	7.4	101	--	33
			.6	4500	30.8	8.5	5.3	72	--	--
MAY 15, 73	1335	1	.3	9000	23.0	8.6	10.0	118	--	18
			.6	15000	22.9	8.5	12.0	146	--	--
AUG 02, 73	1050	1	.5	820	28.1	8.1	8.6	109	--	22

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

WATER YEARS 1972 AND 1973--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						
DEC 06, 71	1325	2	.3	8800	13.9	8.1	9.4	93	--	15
			1.5	21000	13.9	8.1	8.9	92	--	--
			3.4	26000	14.0	8.0	8.9	94	--	--
DEC 07, 71	0855	2	.3	3000	13.6	--	8.5	82	--	36
			1.5	13000	13.6	--	8.4	83	--	--
			3.0	15000	13.4	--	8.4	84	--	--
MAR 14, 72	1615	2	.3	15000	23.2	8.1	9.6	116	65	41
			1.5	15000	23.2	8.1	10.1	122	80	--
			3.5	15000	23.2	8.1	11.5	138	85	--
APR 25, 72	0917	2	.3	19000	25.1	8.3	9.1	115	--	46
			1.5	19000	25.1	8.2	7.7	97	--	--
			3.4	20000	25.2	8.2	7.8	100	--	--
APR 26, 72	0845	2	.5	22000	24.0	8.1	7.0	89	--	10
			1.5	22000	23.9	8.1	7.0	89	--	--
			3.0	22000	24.0	8.1	7.0	89	--	--
			3.7	22000	24.1	8.0	7.0	89	--	--
MAY 15, 72	1520	2	.3	2200	25.7	7.7	7.7	94	--	15
			1.5	4200	25.0	7.6	6.0	72	--	--
			2.4	16000	24.4	7.7	5.1	63	--	--
			3.4	14000	24.8	7.9	6.0	74	--	--
JUL 17, 72	1150	2	.3	5500	26.7	8.5	8.4	106	--	34
			1.5	6400	26.3	8.5	8.0	100	--	--
			3.4	6300	26.3	8.5	8.0	100	--	--
SEP 21, 72	1235	2	.3	4600	31.0	8.6	8.4	114	--	46
			1.5	6000	30.0	8.5	6.8	92	--	--
			3.0	7600	30.0	8.4	6.5	88	--	--
DEC 13, 72	0810	2	.3	32000	6.4	--	9.4	86	--	--
			1.5	32000	6.3	--	9.2	84	--	--
			3.0	34000	6.3	--	9.3	86	--	--
MAY 15, 73	1345	2	.3	9500	22.5	8.6	9.7	113	--	18
			1.5	11000	21.8	8.5	10.2	119	--	--
			3.0	20000	22.8	8.3	9.4	116	--	--
AUG 02, 73	0900	2	.3	850	28.7	7.8	8.4	108	--	--
			1.5	850	28.5	7.8	11.4	146	--	--
			4.9	800	28.6	7.7	12.0	154	--	--
AUG 10, 73	1010	2	.3	--	29.3	8.3	5.8	75	--	--
			1.5	--	29.1	8.4	6.2	79	--	--
			3.4	--	29.2	8.2	6.2	79	--	--
DEC 07, 71	0905	3	.3	1000	13.6	--	8.9	85	--	30
			.6	4500	13.7	--	8.5	82	--	--
SEP 21, 72	1225	3	.3	2800	30.8	8.7	8.3	112	--	38
			.9	3600	30.2	8.5	7.3	97	--	--
MAY 15, 73	1400	3	.3	3500	22.1	8.6	9.5	109	--	20
			.9	4400	22.0	8.7	9.2	106	--	--
AUG 02, 73	1006	3	.3	420	28.1	8.0	8.4	106	--	55
			.6	440	28.0	8.0	8.7	110	--	--
AUG 10, 73	1552	3	.3	300	23.4	8.3	8.0	93	--	25
			.8	1300	23.7	8.3	8.2	95	--	--
DEC 07, 71	0910	4	.3	910	13.9	8.1	9.3	89	--	43
			.6	1000	13.9	8.0	9.3	89	--	--
			1.2	9800	13.9	7.9	10.1	100	--	--
MAR 14, 72	1330	4	.3	14000	22.7	8.4	11.1	132	--	57

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

WATER YEARS 1972 AND 1973--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						
MAR 14, 72	1330	4	.9	14000	22.6	8.4	11.2	133	--	--
APR 24, 72	1455	4	.3	17000	27.8	8.4	11.2	151	--	64
			.6	17000	27.6	8.4	11.2	149	--	--
			.9	17000	27.5	8.4	11.5	153	--	--
			1.2	18000	27.0	8.2	10.9	143	--	--
MAY 15, 72	1512	4	.3	240	25.0	7.2	5.6	67	--	19
			1.5	260	25.1	7.2	5.3	63	--	--
MAY 22, 72	1240	4	.3	170	26.1	7.4	6.2	76	--	8
			.9	170	26.3	7.4	6.2	76	--	--
JUN 14, 72	1130	4	.3	590	28.6	7.9	8.4	108	--	28
			.9	590	28.6	7.9	8.6	110	--	--
JUL 17, 72	1200	4	.3	720	26.6	8.5	9.2	114	--	23
			1.2	1400	26.5	8.6	8.6	107	--	--
SEP 21, 72	1220	4	.3	2300	30.4	8.7	7.6	101	--	36
			.9	2000	30.5	8.5	6.6	89	--	--
DEC 12, 72	1310	4	.3	21000	7.4	8.2	10.0	89	155	20
			.9	21000	7.5	8.2	10.7	95	130	--
MAY 15, 73	1410	4	.3	700	22.1	8.6	10.2	116	--	23
			.9	780	22.0	8.5	10.2	116	--	--
DEC 06, 71	1550	5	.3	1900	13.6	7.8	10.5	101	--	18
			.6	2500	13.6	7.9	10.5	101	--	--
			.9	2700	13.7	7.8	10.5	101	--	--
			1.2	9000	13.4	7.8	10.3	101	--	--
DEC 06, 71	1630	5	.3	1700	13.9	7.8	10.8	104	--	18
			.6	1800	14.0	7.8	10.8	104	--	--
			.9	2300	14.0	7.8	10.7	104	--	--
			1.2	9500	14.0	7.7	10.6	105	--	--
DEC 07, 71	0915	5	.3	910	14.1	7.9	8.7	84	--	38
			.6	1700	14.0	8.1	8.8	85	--	--
			1.2	11000	13.9	8.0	9.3	92	--	--
DEC 07, 71	1355	5	.3	660	14.2	8.1	10.2	98	50	58
			.6	710	14.1	8.1	10.3	99	50	--
			1.2	12000	14.0	8.1	10.2	102	55	--
MAR 14, 72	1335	5	.3	14000	23.5	8.5	10.6	128	--	25
			1.2	14000	23.1	8.4	10.2	121	--	--
APR 24, 72	1443	5	.3	8900	28.0	8.7	16.2	210	--	46
			.9	9900	27.6	8.7	15.5	199	--	--
			1.2	12000	26.7	8.4	11.4	146	--	--
APR 25, 72	0943	5	.3	8600	24.8	8.7	8.2	100	--	15
			.9	8600	24.9	8.7	8.2	100	--	--
			1.2	8800	25.0	8.7	9.7	118	--	--
MAY 15, 72	1503	5	.3	270	25.2	7.1	5.2	62	--	23
			1.5	270	25.2	7.1	5.1	61	--	--
MAY 17, 72	0825	5	.3	220	23.0	7.2	5.8	67	--	18
			1.5	250	23.0	7.2	6.4	74	--	--
MAY 22, 72	1250	5	.3	200	26.2	7.4	6.4	78	--	13
			.9	180	26.7	7.4	6.7	83	--	--
JUN 14, 72	1125	5	.3	630	28.5	7.9	8.6	110	--	28
			1.2	630	28.5	7.9	7.8	100	--	--
JUL 17, 72	1205	5	.3	540	26.9	8.5	9.9	122	--	34

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

WATER YEARS 1972 AND 1973--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										
JUL 17, 72	1205	5	1.2	710	26.8	8.5	10.0	123	--	--
AUG 12, 72	1020	5	.3	380	28.6	8.1	7.2	92	--	8
			1.2	410	28.4	8.1	7.2	91	--	--
SEP 21, 72	1205	5	.3	2200	30.5	8.7	6.2	114	--	38
			.9	4800	30.0	8.5	7.7	103	--	--
DEC 12, 72	1250	5	.3	17000	7.8	7.4	13.6	121	--	--
			1.2	25000	7.8	7.4	11.8	109	--	--
DEC 13, 72	0825	5	.3	20000	6.2	--	10.6	92	--	--
			.9	20000	6.1	--	10.8	94	--	--
MAR 19, 73	1620	5	.3	10000	20.0	8.3	9.9	112	55	58
			1.2	10000	20.0	8.3	9.9	112	60	--
MAY 15, 73	1430	5	.3	1800	21.5	8.6	9.1	103	--	25
			1.2	2200	21.6	8.8	9.2	105	--	--
AUG 02, 73	0955	5	.3	490	28.4	7.8	6.2	78	--	52
			.9	500	28.1	7.8	6.2	78	--	--
DEC 07, 71	0930	6	.3	910	14.3	8.1	8.8	85	--	43
			.6	5900	14.2	8.1	9.1	89	--	--
			1.2	13000	14.3	7.9	9.2	93	--	--
MAR 14, 72	1350	6	.3	6700	23.7	8.6	11.0	131	--	67
			.9	7000	23.6	8.6	11.0	131	--	--
APR 24, 72	1432	6	.3	9000	28.2	8.6	14.2	184	--	43
			.9	9100	28.0	8.6	14.6	190	--	--
			1.2	12000	27.0	8.3	10.2	131	--	--
MAY 15, 72	1436	6	.3	290	25.1	7.0	4.0	48	--	15
			1.5	290	25.2	7.0	3.9	46	--	--
JUL 17, 72	1215	6	.3	660	26.9	8.5	10.0	123	--	34
			1.2	660	26.9	8.5	9.6	119	--	--
SEP 20, 72	1905	6	.3	8600	30.0	8.5	7.2	97	--	10
			1.2	9100	30.0	8.4	7.2	97	--	--
DEC 12, 72	1300	6	.3	22000	7.6	8.2	10.0	91	150	20
			.9	22000	7.5	8.2	11.0	99	150	--
MAY 15, 73	1440	6	.3	700	21.5	8.7	10.4	117	--	18
			1.2	700	21.5	8.7	10.4	117	--	--
DEC 07, 71	0940	7	.3	960	14.2	8.2	9.0	87	--	38
			.6	6900	14.2	8.2	9.1	90	--	--
			1.2	13000	14.3	8.0	9.1	92	--	--
DEC 07, 71	1405	7	.3	1100	14.9	8.0	10.2	100	40	61
			.6	2400	14.2	8.1	10.6	103	55	--
			.9	6400	13.0	8.2	11.6	112	75	--
			1.2	11000	13.8	8.0	11.5	112	60	--
MAR 14, 72	1400	7	.3	6500	23.3	8.6	11.4	136	--	69
			.6	6500	23.3	8.6	11.4	136	--	--
			1.2	10000	23.1	8.4	9.7	114	--	--
APR 24, 72	1406	7	.3	11000	27.8	8.6	13.2	171	--	48
			.9	11000	27.4	8.6	13.2	169	--	--
			1.2	13000	26.2	8.5	10.5	133	--	--
APR 24, 72	1507	7	1.2	11000	28.0	8.6	12.4	161	--	--
MAY 15, 72	1400	7	.3	320	24.9	7.1	4.4	52	--	15

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

WATER YEARS 1972 AND 1973--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						
MAY 15, 72	1400	7	1.5	1100	24.3	7.4	5.1	60	--	--
MAY 17, 72	0835	7	.3	260	23.6	7.1	5.0	58	--	23
			1.7	250	23.5	7.1	5.8	67	--	--
MAY 22, 72	1300	7	.3	240	26.0	7.6	7.2	88	--	11
			1.2	220	26.0	7.6	7.2	88	--	--
JUN 14, 72	1120	7	.3	760	28.4	8.1	8.6	109	--	25
			1.2	760	28.4	8.1	8.5	108	--	--
JUL 17, 72	1220	7	.3	720	27.1	8.6	10.4	128	--	34
			1.2	720	26.7	8.5	8.4	104	--	--
SEP 20, 72	1900	7	.3	6500	30.0	8.6	7.9	107	--	10
			1.2	6500	30.0	8.6	8.1	109	--	--
DEC 12, 72	1255	7	.3	25000	7.5	8.2	9.9	92	100	30
			.9	25000	7.5	8.2	10.2	94	110	--
MAR 19, 73	1605	7	.3	5000	20.0	8.3	10.7	118	60	46
			1.2	7400	20.0	8.3	10.6	118	70	--
MAY 15, 73	1445	7	.3	760	21.3	8.5	9.4	106	--	20
			1.2	810	21.3	8.5	9.9	111	--	--
AUG 02, 73	0945	7	.3	600	28.0	8.0	9.3	118	--	38
			.9	650	27.9	7.9	9.3	118	--	--
AUG 10, 73	1600	7	.3	620	30.0	7.1	6.9	91	130	25
			.9	620	30.0	7.0	6.9	91	120	--
DEC 07, 71	0945	8	.3	4900	14.0	8.3	9.8	95	--	38
			.6	5900	14.2	8.2	9.6	94	--	--
			1.2	13000	14.2	8.0	8.9	89	--	--
MAR 14, 72	1425	8	.3	7100	23.4	8.6	11.6	138	--	56
			1.2	7100	23.4	8.6	11.7	139	--	--
APR 24, 72	1355	8	.3	13000	27.7	8.5	11.9	154	--	48
			.9	13000	27.5	8.5	12.3	160	--	--
			1.4	13000	26.8	8.4	11.2	144	--	--
MAY 15, 72	1345	8	.3	1700	25.1	7.6	6.8	81	--	24
			1.7	4500	24.2	7.9	7.3	87	--	--
JUL 17, 72	1300	8	.3	1900	28.2	8.6	12.8	164	--	34
			1.2	2100	27.6	8.5	9.0	114	--	--
SEP 20, 72	1850	8	.3	4300	30.0	8.6	8.0	107	--	10
			1.2	4500	30.0	8.6	8.3	111	--	--
DEC 12, 72	1245	8	.3	23000	7.5	8.2	10.2	92	120	33
			1.2	22000	7.8	8.2	11.4	120	120	--
MAY 15, 73	1455	8	.3	4300	21.6	8.5	10.7	122	--	18
			1.2	4300	21.6	8.5	10.3	117	--	--
DEC 07,,71	0955	9	.3	4500	14.0	8.4	10.1	98	--	41
			.6	6900	14.0	8.2	9.7	95	--	--
			1.2	13000	14.1	8.0	8.6	86	--	--
MAR 14, 72	1430	9	.3	5700	23.3	8.6	12.0	143	--	47
			1.2	5700	23.4	8.6	12.0	143	--	--
APR 24, 72	1345	9	.3	13000	27.6	8.4	12.7	165	--	41
			.6	13000	27.9	8.4	11.9	157	--	--
			.9	13000	27.9	8.4	11.5	151	--	--
			1.2	13000	27.5	8.4	9.9	129	--	--

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

WATER YEARS 1972 AND 1973--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 243 CONTINUED						
APR 24, 72	1345	9	1.4	13000	26.2	8.3	7.9	100	--	--
MAY 15, 72	1335	9	.3	3000	25.1	7.9	8.1	98	--	36
			1.7	4700	24.3	8.0	7.0	83	--	--
JUL 17, 72	1310	9	.3	1200	28.4	8.7	13.0	165	--	25
			1.4	1600	27.9	8.6	9.0	114	--	--
SEP 20, 72	1845	9	.3	3900	30.0	8.7	6.1	108	--	10
			1.2	3900	30.0	8.7	6.4	112	--	--
DEC 12, 72	1240	9	.3	22000	7.3	8.2	10.2	92	150	28
			.9	22000	7.4	8.2	10.7	96	150	--
MAR 19, 73	1555	9	.3	11000	20.0	8.4	10.0	112	60	56
			1.2	13000	20.0	8.4	9.4	107	65	--
MAY 15, 73	1500	9	.3	2400	21.3	8.7	11.4	130	--	10
			1.2	2400	21.4	8.8	11.5	131	--	--
AUG 02, 73	0930	9	.3	500	27.7	8.0	8.6	108	--	25
			.8	600	27.4	8.0	8.8	110	--	--
AUG 10, 73	1550	9	.3	2300	30.0	7.2	6.7	89	90	30
			.9	2400	30.0	7.2	6.7	89	105	--
DEC 07, 71	1000	10	.3	4000	14.1	8.4	10.3	100	--	38
			.9	8800	14.1	8.1	10.1	100	--	--
MAR 14, 72	1440	10	.3	7000	23.2	8.7	11.7	138	--	25
			.9	7000	23.2	8.7	11.5	135	--	--
APR 24, 72	1322	10	.3	14000	27.9	8.4	11.9	157	--	30
			1.2	14000	27.5	8.4	10.9	142	--	--
MAY 15, 72	1330	10	.3	5600	25.1	8.3	9.9	121	--	51
			1.5	6600	24.2	8.2	7.8	94	--	--
JUL 17, 72	1315	10	.3	1600	28.2	8.6	12.0	152	--	25
			1.1	3200	27.4	8.5	9.7	123	--	--
SEP 20, 72	1840	10	.3	3900	30.0	8.6	7.7	103	--	10
			.9	3800	30.0	8.6	8.1	108	--	--
DEC 12, 72	1235	10	.3	21000	7.4	8.2	10.1	90	195	25
			1.2	21000	7.6	8.2	10.3	93	225	--
MAY 15, 73	1510	10	.3	930	21.2	8.5	10.6	118	--	13
			.9	930	21.2	8.5	10.6	118	--	--
				LINE 254						
DEC 07, 71	1325	2	.3	7200	14.7	8.0	10.0	99	--	61
			1.5	14000	14.0	8.0	9.4	94	--	--
			3.4	29000	14.2	7.8	5.9	63	--	--
MAR 14, 72	1455	2	.3	18000	22.8	8.1	8.8	107	88	38
			1.4	18000	23.9	8.1	10.5	131	105	--
APR 25, 72	0848	2	.3	24000	24.5	8.3	8.3	106	--	38
			.9	24000	24.2	8.2	7.8	99	--	--
			1.5	24000	24.6	8.2	8.0	103	--	--
APR 28, 72	1752	2	.3	38000	26.2	--	4.7	66	--	36
			1.5	38000	26.2	--	3.9	55	--	--
			2.1	38000	26.1	--	3.9	55	--	--
MAY 16, 72	0840	2	.3	1800	24.2	7.6	6.1	72	--	20

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

WATER YEARS 1972 AND 1973--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 254 CONTINUED					
MAY 16, 72	0840	2	.9	3200	24.2	7.6	6.3	75	--	--
			1.8	1200	24.8	7.8	6.7	83	--	--
JUL 17, 72	1750	2	.3	8900	28.2	8.6	11.8	153	--	36
			1.5	9100	28.2	8.5	11.4	148	--	--
DEC 12, 72	0830	2	.3	30000	6.0	8.2	10.8	98	110	33
			.9	30000	5.9	8.2	11.1	101	100	--
MAR 19, 73	1045	2	.3	19000	20.0	8.3	12.0	140	60	33
			1.2	20000	20.1	8.3	11.8	137	500	--
AUG 02, 73	1110	2	.3	2600	27.9	8.5	9.5	120	--	28
			1.2	2600	27.5	8.4	9.5	120	--	--
AUG 10, 73	1625	2	.3	1600	29.9	7.6	6.5	86	200	18
			1.2	1600	29.9	7.7	5.9	78	190	--
					LINE 264					
DEC 07, 71	1340	1	.3	5400	14.2	8.1	10.2	100	--	64
			.9	11000	13.8	8.0	10.0	99	--	--
			1.5	14000	13.6	8.0	10.2	101	--	--
			2.1	23000	13.5	7.9	9.6	99	--	--
			3.4	31000	14.0	7.8	9.1	99	--	--
MAR 14, 72	0910	1	.3	17000	21.3	8.1	7.4	88	25	69
			1.5	18000	21.4	8.1	7.4	88	50	--
			3.5	23000	21.4	8.0	7.9	94	115	--
APR 25, 72	0904	1	.3	22000	25.2	8.3	6.6	110	--	36
			1.5	22000	25.1	8.3	7.6	97	--	--
			3.0	22000	25.1	8.3	7.8	100	--	--
			3.7	23000	25.2	8.3	8.0	103	--	--
APR 25, 72	1657	1	.3	22000	25.7	8.2	7.6	99	--	20
			1.5	22000	25.7	8.2	7.8	101	--	--
			3.0	22000	25.7	8.2	7.7	100	--	--
			3.7	23000	25.7	8.2	7.1	92	--	--
MAY 16, 72	0855	1	.3	660	24.3	7.5	5.3	62	--	22
			1.5	10000	24.5	7.6	5.0	61	--	--
			3.0	14000	24.6	7.7	4.7	58	--	--
JUL 17, 72	1135	1	.3	5700	26.9	8.6	9.5	120	--	32
			1.5	8400	26.6	8.4	8.0	101	--	--
			3.4	9700	26.5	8.4	8.6	108	--	--
JUL 17, 72	1740	1	.3	8400	28.4	8.6	12.4	161	--	36
			1.5	10000	28.2	8.6	12.0	156	--	--
			3.4	9400	27.8	8.5	10.2	132	--	--
SEP 21, 72	1250	1	.3	9700	30.1	8.5	8.3	112	--	33
			1.5	14000	29.8	8.4	6.7	92	--	--
			3.4	15000	30.0	8.2	5.7	78	--	--
DEC 12, 72	1330	1	.3	30000	7.7	8.2	9.0	85	130	30
			1.5	31000	7.8	8.2	8.6	81	225	--
			3.0	34000	8.0	8.1	8.6	83	--	--
MAR 19, 73	1630	1	.3	17000	20.0	8.2	--	--	400	58
			1.5	17000	20.0	8.2	--	--	500	--
			3.0	17000	20.0	8.2	--	--	100	--
MAY 15, 73	1255	1	.3	11000	21.5	8.6	8.4	98	--	10
			1.5	11000	21.5	8.7	8.5	99	--	--
			2.1	16000	22.0	8.5	7.6	90	--	--
			3.0	22000	22.5	8.5	7.0	85	--	--

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

WATER YEARS 1972 AND 1973--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						
AUG 02, 73	1120	1	.3	700	28.1	8.3	8.4	106	--	18
			1.5	750	28.1	8.3	8.5	108	--	--
			3.0	900	28.0	8.3	8.4	106	--	--
AUG 10, 73	1540	1	.3	1400	23.0	8.4	6.8	78	--	20
			1.5	1400	23.1	8.4	7.0	80	--	--
			3.0	1500	24.0	8.4	7.4	87	--	--
DEC 07, 71	1505	2	.3	9000	14.1	8.2	11.1	110	--	64
			.6	9000	14.2	8.2	10.9	108	--	--
			1.2	9500	14.3	8.2	11.2	112	--	--
MAR 14, 72	1515	2	.5	15000	23.1	8.2	11.6	140	55	36
			1.4	15000	23.1	8.1	11.6	140	80	--
APR 25, 72	1035	2	.3	20000	24.9	8.3	7.4	95	--	30
			1.5	20000	25.0	8.3	9.8	126	--	--
MAY 16, 72	0910	2	.3	280	24.3	7.4	6.1	72	--	22
			.9	370	24.1	7.4	5.6	66	--	--
			1.5	290	24.1	7.3	5.8	68	--	--
			1.8	7000	24.0	7.4	3.1	37	--	--
MAY 22, 72	1355	2	.3	200	27.1	7.7	7.4	91	--	13
			1.5	180	27.1	7.7	7.4	91	--	--
JUN 14, 72	1145	2	.3	9000	28.4	8.3	8.2	106	--	18
			1.8	9000	28.4	8.3	7.4	96	--	--
JUL 17, 72	1435	2	.3	5800	28.7	8.7	12.6	166	--	38
			1.5	6300	28.4	8.5	9.8	127	--	--
SEP 21, 72	1255	2	.3	11000	30.3	8.5	8.5	115	--	46
			1.2	13000	29.6	8.4	7.6	103	--	--
DEC 12, 72	1130	2	.3	29000	7.1	8.2	9.7	89	180	25
			1.2	29000	7.1	8.3	10.3	94	210	--
MAR 19, 73	1440	2	.3	12000	20.0	8.3	--	--	50	58
			1.2	25000	19.9	8.1	--	--	60	--
MAY 15, 73	1240	2	.3	9000	21.6	8.7	8.5	99	--	8
			1.2	9000	21.5	8.7	8.5	99	--	--
AUG 02, 73	1130	2	.3	500	28.1	8.0	8.9	113	--	52
			1.2	560	27.9	8.0	8.8	111	--	--
AUG 10, 73	1500	2	.3	1400	30.0	7.3	6.4	84	115	30
			1.2	1400	30.0	7.3	6.3	83	125	--
DEC 07, 71	1455	3	.3	8700	13.8	8.2	11.6	115	--	58
			.6	9200	13.8	8.2	11.7	116	--	--
			1.2	13000	13.7	8.2	11.6	115	--	--
MAR 14, 72	1525	3	.5	13000	23.0	8.4	11.3	134	30	58
			1.5	13000	22.8	8.4	13.4	160	50	--
APR 25, 72	1023	3	.3	18000	25.2	8.4	7.9	100	--	46
			1.5	18000	25.1	8.4	8.5	108	--	--
			2.1	18000	25.1	8.4	9.5	120	--	--
MAY 16, 72	0925	3	.3	370	24.1	7.4	6.2	73	--	19
			1.8	910	23.9	7.4	5.4	64	--	--
JUL 17, 72	1425	3	.3	7900	29.2	8.6	11.8	155	--	47
			1.4	8900	28.2	8.4	9.2	119	--	--
SEP 21, 72	1320	3	.3	10000	30.6	8.6	8.4	115	--	43
			1.2	12000	29.9	8.5	7.9	108	--	--

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

WATER YEARS 1972 AND 1973--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						
DEC 12, 72	1145	3	.3	27000	7.2	8.2	9.9	82	115	25
			1.2	28000	7.7	8.2	10.3	96	120	--
MAR 19, 73	1450	3	.3	12000	19.9	8.3	9.9	112	60	48
			1.5	25000	19.9	8.1	7.0	83	80	--
MAY 15, 73	1225	3	.3	7800	21.5	8.7	6.5	98	--	10
			1.2	8200	21.4	8.7	6.8	101	--	--
AUG 02, 73	1140	3	.3	500	28.1	8.1	6.5	108	--	53
			1.2	530	28.1	8.1	6.6	109	--	--
AUG 10, 73	1515	3	.3	1200	30.2	7.4	6.5	86	100	30
			1.2	1200	30.2	7.4	5.6	74	110	--
DEC 06, 71	1430	4	.3	9500	12.9	8.1	10.9	106	--	15
			.6	9500	12.9	8.1	10.7	104	--	--
			1.2	10000	12.9	8.1	10.1	98	--	--
			1.8	13000	12.9	8.1	10.4	102	--	--
			2.4	13000	13.2	8.1	9.8	96	--	--
DEC 06, 71	1525	4	.3	9800	13.1	7.9	11.0	107	--	18
			.6	9800	13.1	7.9	10.9	106	--	--
			1.2	10000	13.0	7.9	10.8	105	--	--
			1.8	14000	13.0	7.9	10.2	100	--	--
			2.4	13000	13.3	7.9	9.8	97	--	--
DEC 07, 71	1445	4	.3	8700	14.1	8.2	11.5	114	35	64
			.6	8800	14.0	8.2	11.7	116	35	--
			.9	9000	13.9	8.2	11.9	118	45	--
			1.2	12000	13.9	8.2	11.8	118	20	--
MAR 14, 72	1535	4	.5	11000	22.9	8.4	10.8	127	100	23
			1.2	11000	22.9	8.4	11.8	139	105	--
APR 25, 72	1013	4	.3	19000	25.2	8.4	8.3	105	--	30
			1.8	19000	25.2	8.4	9.3	118	--	--
MAY 16, 72	0935	4	.3	590	24.3	7.4	5.9	69	--	19
			1.8	2000	24.0	7.5	5.3	63	--	--
MAY 17, 72	0920	4	.3	300	24.1	7.4	6.9	81	--	16
			1.5	300	24.1	7.4	7.1	84	--	--
			2.3	320	24.1	7.6	7.4	87	--	--
MAY 22, 72	1145	4	.3	1900	26.2	8.2	7.5	93	--	21
			.9	1900	26.1	8.2	7.5	93	--	--
			2.0	2100	26.0	8.1	7.4	91	--	--
JUN 14, 72	1153	4	.3	7600	28.8	8.2	8.7	114	--	28
			1.5	7600	28.7	8.2	8.2	108	--	--
JUL 17, 72	1415	4	.3	9300	29.0	8.6	11.4	150	--	51
			1.8	12000	27.6	8.3	9.7	126	--	--
SEP 21, 72	1325	4	.3	9200	30.3	8.6	8.0	108	--	43
			1.8	13000	29.8	8.4	7.1	97	--	--
DEC 12, 72	1155	4	.3	26000	7.4	8.2	9.7	89	120	25
			.9	26000	7.5	8.2	10.1	94	120	--
MAR 19, 73	1505	4	.3	11000	20.0	8.3	--	--	55	58
			1.5	25000	20.0	8.0	--	--	55	--
MAY 15, 73	1210	4	.3	6300	21.3	8.7	8.4	97	--	8
			1.5	6300	21.2	8.7	9.0	102	--	--
AUG 02, 73	1150	4	.3	560	28.2	8.1	6.8	111	--	43
			1.5	560	28.0	8.0	9.0	114	--	--

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

WATER YEARS 1972 AND 1973--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 264 CONTINUED					
AUG 10, 73	1520	4	.3	570	30.0	7.3	7.0	92	120	25
			1.2	580	30.0	7.3	6.9	91	100	--
DEC 07, 71	1435	5	.3	6600	13.7	8.2	11.2	109	--	64
			.6	6500	13.7	8.2	11.1	108	--	--
			.9	6900	13.8	8.2	10.8	106	--	--
			1.2	11000	14.1	8.1	8.9	88	--	--
MAR 14, 72	1550	5	.3	9400	23.1	8.4	9.9	116	195	15
			.9	9600	22.9	8.4	12.5	147	195	--
APR 25, 72	1004	5	.3	20000	25.1	8.3	7.8	100	--	15
			1.2	20000	25.1	8.2	8.2	105	--	--
MAY 16, 72	0950	5	.3	1800	24.9	7.7	7.6	90	--	30
			1.5	2800	25.0	8.0	8.0	96	--	--
JUL 17, 72	1405	5	.3	12000	28.3	8.5	12.1	159	--	44
			1.2	14000	27.4	8.3	11.1	144	--	--
SEP 21, 72	1335	5	.3	9700	30.0	8.6	8.5	115	--	41
			1.2	9400	30.0	8.4	8.4	114	--	--
DEC 12, 72	1205	5	.3	26000	7.5	8.2	9.7	89	170	20
			1.2	26000	7.6	8.2	10.0	93	170	--
MAR 19, 73	1515	5	.3	22000	20.0	8.3	--	--	60	56
			1.5	24000	20.0	8.2	--	--	70	--
MAY 15, 73	1200	5	.3	2700	21.0	8.7	8.7	98	--	8
			1.2	2400	20.9	8.7	8.9	100	--	--
AUG 02, 73	1200	5	.3	580	27.7	8.1	6.7	84	--	--
			.9	580	27.9	8.1	6.7	85	--	--
AUG 10, 73	1540	5	.3	3200	30.0	7.4	6.7	89	100	28
			.9	3200	30.0	7.4	6.7	89	110	--
					LINE 274					
DEC 07, 71	0850	1	.3	14000	10.8	8.1	10.0	93	--	61
			.9	15000	11.0	8.1	10.0	95	--	--
			1.5	23000	10.9	8.0	9.5	93	--	--
			2.1	33000	10.9	7.9	8.9	92	--	--
			3.0	38000	10.7	7.8	8.4	88	--	--
			4.0	38000	10.6	7.8	8.4	88	--	--
MAR 14, 72	0925	1	.3	20000	21.3	8.2	8.5	101	45	66
			1.5	24000	21.5	8.2	8.3	101	75	--
			3.2	24000	21.5	8.1	11.3	138	190	--
APR 25, 72	1644	1	.3	24000	26.0	8.2	7.6	100	--	--
			1.5	24000	26.0	8.2	7.6	100	--	--
			3.0	24000	26.0	8.2	7.0	92	--	--
			4.3	26000	26.1	8.2	6.9	91	--	--
MAY 16, 72	1135	1	.3	8000	25.4	8.0	8.2	101	--	47
			1.5	10000	25.0	7.8	6.3	77	--	--
			3.0	15000	24.6	7.7	4.8	60	--	--
			3.7	14000	24.8	7.6	4.9	60	--	--
JUL 17, 72	1730	1	.3	11000	28.3	8.5	11.0	143	--	30
			1.5	11000	28.2	8.5	10.4	135	--	--
			3.5	13000	28.2	8.5	9.9	130	--	--
SEP 21, 72	1445	1	.3	19000	30.1	8.4	7.8	108	--	38
			1.5	19000	29.6	8.3	7.0	97	--	--
			3.0	19000	29.5	8.3	6.8	94	--	--

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

WATER YEARS 1972 AND 1973--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										
DEC 11, 72	1200	1	.3	42000	7.3	8.0	9.8	81	--	91
			1.5	42000	7.5	7.9	9.9	99	--	--
			3.4	44000	7.7	7.8	10.4	106	--	--
DEC 12, 72	0850	1	.3	38000	6.7	8.2	10.2	97	55	53
			1.5	38000	6.8	8.4	9.8	94	60	--
			3.0	38000	6.8	8.4	10.1	97	80	--
MAR 19, 73	1115	1	.3	19000	20.0	8.2	9.6	110	40	61
			1.5	23000	20.0	8.2	9.4	111	--	--
			3.0	26000	19.9	8.1	9.5	113	--	--
MAY 15, 73	1040	1	.3	19000	21.6	8.5	7.6	90	--	33
			1.5	22000	21.6	8.5	7.2	88	--	--
			3.0	24000	22.0	8.5	8.5	104	--	--
DEC 07, 71	1130	2	.3	11000	13.8	8.1	10.9	108	20	71
			.6	14000	13.6	8.2	10.8	107	110	--
			1.2	16000	13.7	8.2	9.7	97	80	--
MAR 14, 72	1240	2	.3	16000	22.8	8.2	10.7	129	130	61
			.9	17000	23.0	8.2	12.6	154	100	--
MAR 15, 72	1720	2	.3	21000	24.3	8.4	7.3	92	--	56
			.9	21000	24.3	8.4	7.3	92	--	--
APR 25, 72	1110	2	.3	23000	25.4	8.3	7.4	96	--	30
			1.1	23000	25.7	8.3	9.9	129	--	--
MAY 16, 72	1045	2	.3	1000	24.9	7.6	7.4	88	--	23
			1.2	7800	24.9	7.5	5.4	66	--	--
JUL 17, 72	1450	2	.3	9800	30.4	8.5	11.8	159	--	50
			1.2	11000	28.1	8.4	11.0	143	--	--
SEP 21, 72	1438	2	.3	17000	30.2	8.4	7.9	110	--	51
			.9	17000	30.1	8.3	8.1	112	--	--
DEC 12, 72	1115	2	.3	31000	7.4	8.2	9.6	90	210	30
			1.5	32000	7.4	8.2	10.4	97	150	--
MAR 19, 73	1425	2	.3	15000	20.0	8.3	8.3	95	45	71
			1.2	23000	20.0	8.3	--	--	--	--
			2.1	26000	19.9	8.0	7.7	92	50	--
MAY 15, 73	1050	2	.3	13000	20.9	8.5	8.0	93	--	18
			.9	13000	20.9	8.5	8.1	94	--	--
MAR 14, 72	1225	3	.5	15000	22.7	8.3	11.8	142	20	91
			1.7	14000	22.8	8.2	13.1	156	45	--
APR 25, 72	1121	3	.5	23000	25.0	8.2	7.3	94	--	36
			1.5	23000	25.1	8.2	8.1	104	--	--
			2.1	23000	25.2	8.2	8.6	110	--	--
MAY 16, 72	1030	3	.3	1000	24.5	7.6	7.0	83	--	25
			1.5	1000	24.2	7.6	6.6	78	--	--
			2.1	8000	24.3	7.4	4.4	53	--	--
JUL 17, 72	1500	3	.3	10000	29.2	8.6	12.8	168	--	43
			2.0	10000	28.2	8.4	10.2	132	--	--
SEP 21, 72	1430	3	.3	13000	30.0	8.5	8.1	111	--	51
			1.5	15000	29.5	8.3	5.2	70	--	--
DEC 12, 72	1105	3	.3	35000	7.5	8.2	9.5	92	--	25
			1.5	35000	7.4	8.2	10.3	99	--	--
MAR 19, 73	1410	3	.3	15000	19.9	8.3	--	--	50	56

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

WATER YEARS 1972 AND 1973--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 274 CONTINUED						
MAR 19, 73	1410	3	1.5	23000	20.0	8.1	--	--	60	--
MAY 15, 73	1110	3	.3	12000	20.2	8.5	8.0	91	--	13
			1.5	9900	20.3	8.5	8.1	91	--	--
DEC 07, 71	1100	4	.3	9400	12.7	8.3	11.0	106	--	79
			.9	15000	13.0	8.2	10.1	100	--	--
			1.8	20000	13.6	8.1	9.7	99	--	--
DEC 07, 71	1115	4	.3	13000	13.5	8.2	11.0	109	--	76
			.9	14000	13.4	8.2	10.9	108	--	--
			1.8	24000	13.6	8.0	9.9	102	--	--
MAR 14, 72	1210	4	.5	13000	22.6	8.4	11.7	139	20	74
			1.5	13000	22.7	8.4	12.8	152	80	--
APR 25, 72	1137	4	.5	23000	25.2	8.3	6.6	85	--	15
			1.8	23000	25.2	8.3	6.8	87	--	--
MAY 16, 72	1015	4	.3	1000	24.8	7.6	7.5	89	--	23
			2.3	4000	24.5	7.5	4.6	55	--	--
JUL 17, 72	1515	4	.3	8900	28.0	8.6	12.2	158	--	46
			1.5	8900	27.5	8.5	10.8	138	--	--
			2.1	8900	27.7	8.5	9.8	126	--	--
SEP 21, 72	1425	4	.3	12000	30.0	8.5	7.7	105	--	41
			1.2	13000	29.6	8.4	7.3	99	--	--
MAR 19, 73	1355	4	.3	16000	20.0	8.3	--	--	70	41
			1.5	25000	20.0	8.3	--	--	80	--
MAY 15, 73	1115	4	.3	7900	21.0	8.6	8.2	93	--	10
			1.5	8000	21.0	8.6	8.6	98	--	--
DEC 07, 71	1040	5	.3	9100	12.7	8.3	11.0	106	40	64
			.9	15000	13.0	8.3	10.0	99	41	--
			1.5	20000	13.3	8.1	6.5	67	58	--
MAR 14, 72	1155	5	.3	13000	22.8	8.4	9.9	118	13	74
			1.4	13000	22.6	8.4	12.7	151	--	--
APR 25, 72	1145	5	.5	23000	25.3	8.3	7.2	93	--	25
			1.8	23000	25.5	8.3	7.4	96	--	--
MAY 16, 72	1000	5	.3	2100	24.7	7.8	8.6	104	--	28
			1.5	2200	24.5	7.8	8.0	95	--	--
			2.7	7300	24.2	7.6	4.4	53	--	--
MAY 17, 72	0938	5	.3	1200	24.7	7.6	7.8	93	--	13
			1.5	1200	24.7	7.6	8.2	98	--	--
MAY 22, 72	1205	5	.3	1200	26.1	8.0	7.4	90	--	15
			1.5	1200	26.1	7.9	7.3	89	--	--
JUN 14, 72	1210	5	.3	19000	28.8	8.3	8.6	118	--	23
			1.2	19000	28.7	8.3	7.9	108	--	--
			2.4	19000	28.6	8.2	7.5	103	--	--
JUL 17, 72	1525	5	.3	9000	28.7	8.6	11.2	147	--	46
			2.0	11000	27.7	8.5	10.0	128	--	--
SEP 21, 72	1420	5	.3	13000	30.0	8.5	7.5	103	--	25
			1.8	13000	29.8	8.4	6.0	82	--	--
DEC 12, 72	1045	5	.3	28000	7.6	8.3	10.0	93	60	51
			1.5	29000	7.3	8.3	9.7	90	70	--
			2.4	32000	7.6	8.2	10.1	95	250	--
MAR 19, 73	1340	5	.3	16000	20.0	8.2	9.3	107	175	43

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

WATER YEARS 1972 AND 1973--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						
MAR 19, 73	1340	5	1.5	16000	20.0	8.2	8.5	98	150	--
MAY 15, 73	1125	5	.3	8000	21.0	8.6	8.2	93	--	8
			1.5	8000	21.1	8.6	8.2	93	--	--
SEP 21, 72	1415	6	.3	14000	30.4	8.5	8.3	114	--	56
			1.2	15000	30.4	8.5	8.5	116	--	--
MAY 15, 73	1135	6	.3	6100	20.8	8.5	8.2	93	--	8
			1.5	6100	20.7	8.6	8.4	94	--	--
				LINE 287						
DEC 07, 71	0905	1	.3	15000	11.2	8.1	10.0	95	--	56
			.9	23000	11.5	8.1	9.8	97	--	--
			1.5	36000	11.2	7.9	8.8	92	--	--
			2.1	40000	11.2	7.9	8.5	90	--	--
			3.0	40000	11.2	7.9	8.5	90	--	--
			3.7	39000	11.2	7.9	8.6	91	--	--
MAR 14, 72	0940	1	.3	27000	21.9	8.1	7.7	97	--	74
			1.5	29000	21.9	8.1	8.2	104	45	--
			3.5	29000	22.0	8.1	11.2	140	40	--
APR 25, 72	1631	1	.3	29000	26.3	8.4	8.4	113	--	46
			1.5	29000	26.2	8.4	8.3	112	--	--
			3.4	32000	25.6	8.3	6.7	90	--	--
MAY 16, 72	1138	1	.3	3500	25.2	7.9	9.0	108	--	30
			1.5	18000	24.9	7.7	6.9	87	--	--
			3.4	26000	25.4	7.9	7.7	101	--	--
JUL 17, 72	1720	1	.3	13000	28.6	8.6	11.0	147	--	38
			1.5	13000	28.1	8.5	10.9	143	--	--
			3.0	13000	28.2	8.5	9.9	130	--	--
SEP 21, 72	1455	1	.3	17000	30.0	8.4	7.5	104	--	48
			1.5	17000	29.4	8.3	6.4	88	--	--
			2.7	17000	29.6	8.3	7.0	97	--	--
DEC 12, 72	0900	1	.3	38000	7.2	8.2	9.6	93	50	58
			1.5	38000	7.2	8.2	9.6	93	55	--
			3.4	38000	7.1	8.2	10.2	98	65	--
MAR 19, 73	1130	1	.3	26000	20.0	8.2	--	--	40	74
			1.5	26000	20.1	8.2	--	--	50	--
			3.0	26000	20.2	8.3	--	--	175	--
MAY 15, 73	1215	1	.3	26000	22.1	8.4	10.1	125	40	64
			1.5	31000	22.2	8.4	9.7	123	60	--
			3.4	30000	22.4	8.3	9.3	118	70	--
AUG 02, 73	0930	1	.3	2800	29.1	--	7.8	101	500	30
			1.5	2800	29.0	--	7.3	95	500	--
			3.0	2800	29.0	--	7.1	92	500	--
			3.7	2400	29.1	--	6.5	84	500	--
AUG 10, 73	1515	1	.3	2200	23.2	8.6	7.0	81	--	24
			1.5	2200	23.2	8.6	7.0	81	--	--
			3.4	2200	23.3	8.6	7.3	85	--	--
MAR 14, 72	0950	2	.3	20000	21.9	8.2	9.1	111	10	122
			1.2	20000	21.9	8.2	9.4	115	35	--
APR 25, 72	1602	2	.5	31000	26.1	8.4	7.7	105	--	33
			1.5	29000	25.9	8.3	7.5	101	--	--
MAY 16, 72	1230	2	.3	1900	25.6	7.7	7.0	85	--	23

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

WATER YEARS 1972 AND 1973--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 287 CONTINUED										
MAY 16, 72	1230	2	1.7	16000	25.5	7.6	4.8	61	--	--
MAY 22, 72	1445	2	.3	1100	26.3	7.8	7.4	90	--	15
			1.4	1000	26.2	7.8	7.3	89	--	--
JUN 14, 72	1625	2	.3	24000	29.9	8.1	9.8	140	--	46
			1.5	24000	29.9	8.1	9.3	133	--	--
JUL 17, 72	1650	2	1.2	13000	28.0	8.5	11.5	151	--	--
			3.0	12000	28.8	8.6	12.7	169	--	46
SEP 21, 72	1500	2	.3	15000	30.6	8.3	8.1	112	--	46
			1.2	17000	30.5	8.4	8.2	114	--	--
DEC 12, 72	0915	2	.3	38000	6.9	7.9	9.8	94	35	122
			.9	38000	6.9	7.9	9.6	92	35	--
MAR 19, 73	1145	2	.3	26000	20.0	8.2	8.3	99	45	56
			.9	29000	20.0	8.1	7.9	95	55	--
MAY 15, 73	1225	2	.3	16000	22.3	8.5	11.6	138	85	30
			1.2	21000	22.3	8.3	10.2	124	80	--
AUG 02, 73	0945	2	.3	2800	29.4	--	--	--	400	30
			.9	2800	29.2	--	--	--	300	--
AUG 10, 73	1445	2	.3	1600	28.9	8.6	7.5	96	--	18
			1.2	2400	29.0	8.6	8.2	106	--	--
MAR 14, 72	0955	3	.3	19000	21.8	8.3	9.3	112	12	122
			1.4	20000	21.9	8.2	9.0	110	30	--
APR 25, 72	1608	3	.5	32000	26.3	8.3	7.4	101	--	25
			1.5	32000	26.0	8.3	7.1	97	--	--
MAY 16, 72	1237	3	.3	1600	25.6	7.8	7.8	94	--	25
			1.7	12000	25.0	7.6	4.9	60	--	--
JUL 17, 72	1655	3	.3	9900	28.3	8.6	11.9	155	--	41
			1.4	10000	28.2	8.5	9.8	127	--	--
SEP 21, 72	1510	3	.3	16000	30.2	8.4	7.9	108	--	38
			1.2	16000	30.1	8.4	8.3	114	--	--
DEC 12, 72	0925	3	.3	38000	6.9	8.2	9.8	94	30	147
			.9	39000	6.8	8.2	10.2	98	30	--
MAR 19, 73	1200	3	.3	28000	20.1	8.1	--	--	40	56
			1.2	28000	20.1	8.0	--	--	70	--
MAY 15, 73	1235	3	.3	18000	22.4	8.3	12.1	146	65	38
			1.2	24000	22.6	8.3	12.2	151	60	--
AUG 02, 73	1000	3	.3	2200	29.4	--	--	--	75	30
			1.2	2200	29.4	--	--	--	90	--
AUG 10, 73	1450	3	.3	1400	26.3	8.6	7.5	91	--	23
			1.2	1500	27.5	8.6	8.1	101	--	--
DEC 07, 71	0930	4	.3	16000	10.3	8.3	10.5	99	24	64
			.9	16000	10.8	8.2	10.4	99	--	--
			1.8	17000	10.9	8.0	9.1	88	--	--
MAR 14, 72	1025	4	.3	16000	21.9	8.4	9.8	117	85	109
			1.8	29000	21.9	8.0	9.1	115	85	--
APR 25, 72	1545	4	.5	27000	26.0	8.4	7.5	101	--	30
			1.8	27000	25.8	8.4	7.3	99	--	--
MAY 16, 72	1300	4	.3	1900	25.8	7.8	7.7	95	--	30

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

WATER YEARS 1972 AND 1973--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 287 CONTINUED						
MAY 16, 72	1300	4	2.1	17000	25.0	7.7	4.3	54	--	--
MAY 17, 72	1036	4	.3	2000	24.6	7.7	8.1	98	--	22
			2.0	2300	24.7	7.8	8.2	99	--	--
MAY 22, 72	1415	4	.3	370	26.5	7.8	7.1	87	--	15
			1.7	400	26.4	7.8	7.2	88	--	--
JUN 14, 72	1800	4	.5	13000	28.6	8.2	11.1	148	--	25
			1.5	13000	28.5	8.2	12.4	163	--	--
			2.1	15000	28.5	8.2	14.4	192	--	--
JUN 14, 72	1638	4	.3	15000	29.9	8.1	9.1	125	--	30
			1.8	16000	29.8	8.1	9.2	126	--	--
JUL 17, 72	1635	4	.3	10000	28.2	8.6	11.7	152	--	41
			2.0	10000	27.8	8.5	11.6	151	--	--
SEP 21, 72	1520	4	.3	13000	29.9	8.4	6.7	92	--	43
			1.5	14000	29.8	8.4	7.5	103	--	--
DEC 12, 72	0945	4	.3	30000	7.0	8.2	9.8	91	40	91
			1.2	30000	6.4	8.2	11.0	101	40	--
MAR 19, 73	1215	4	.3	21000	20.0	8.2	--	--	80	56
			1.5	25000	20.0	8.1	--	--	50	--
APR 25, 73	1500	4	.3	10000	21.6	8.3	9.1	106	--	46
			1.5	10000	21.6	8.2	9.6	112	--	--
MAY 15, 73	1250	4	.3	24000	22.7	8.3	11.2	138	60	46
			1.5	22000	22.7	8.3	11.6	143	70	--
AUG 02, 73	1130	4	.3	3500	29.7	--	--	--	75	38
			1.2	3600	29.6	--	--	--	90	--
DEC 07, 71	0945	5	.3	15000	10.4	8.3	10.6	100	--	74
			.9	25000	10.9	8.2	10.2	101	--	--
			1.5	25000	10.8	8.1	9.8	97	--	--
			2.1	33000	10.9	8.0	8.8	91	--	--
			3.0	36000	11.1	8.0	8.2	85	--	--
MAR 14, 72	1040	5	.3	14000	22.0	8.4	9.9	116	10	76
			1.1	14000	22.1	8.4	10.1	119	170	--
APR 25, 72	1449	5	.5	24000	26.0	8.3	7.2	95	--	23
			1.4	24000	25.8	8.3	7.0	92	--	--
MAY 16, 72	1315	5	.3	3200	25.6	8.0	9.2	112	--	46
			1.5	8700	25.1	8.0	8.1	99	--	--
JUL 17, 72	1620	5	.3	10000	28.3	8.6	11.6	151	--	46
			1.2	10000	27.9	8.5	10.4	135	--	--
SEP 21, 72	1530	5	.3	15000	29.7	8.4	6.7	91	--	43
			1.5	16000	29.5	8.3	6.0	81	--	--
			2.4	15000	29.4	8.3	5.7	77	--	--
DEC 12, 72	0955	5	.3	30000	6.9	8.2	10.0	93	260	46
			1.2	31000	6.8	8.2	12.6	115	120	--
MAR 19, 73	1235	5	.3	23000	20.0	8.1	--	--	50	43
			1.2	24000	20.0	8.1	--	--	70	--
			2.1	26000	20.0	8.1	--	--	110	--
MAY 15, 73	1340	5	.3	19000	22.9	8.4	11.5	140	100	46
			.9	19000	22.9	8.3	11.1	135	90	--
AUG 02, 73	1140	5	.3	2000	29.7	8.6	--	--	50	61

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

WATER YEARS 1972 AND 1973--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						
AUG 02, 73	1140	5	1.5	4200	29.6	8.7	--	--	50	--
			2.4	4400	29.5	8.7	--	--	50	--
AUG 10, 73	1205	5	.3	6700	31.1	--	7.1	97	200	36
			1.5	6200	30.4	--	6.1	82	500	--
SEP 21, 72	1540	6	.3	16000	30.2	8.4	8.6	118	--	46
			1.2	16000	30.1	8.4	9.1	125	--	--
DEC 07, 71	1025	7	.3	13000	12.7	8.2	11.2	109	--	64
			.8	16000	13.4	8.2	11.1	111	--	--
MAR 13, 72	1335	7	.3	14000	22.7	8.5	8.3	99	--	36
			.6	14000	22.7	8.5	8.1	96	--	--
			.9	14000	22.8	8.5	8.1	96	--	--
			1.2	14000	22.7	8.5	8.0	95	--	--
			1.5	15000	22.8	8.4	8.5	102	--	--
MAR 14, 72	1145	7	.3	23000	22.7	8.3	8.8	109	25	91
			1.4	23000	23.1	8.1	9.3	115	70	--
APR 25, 72	1205	7	.5	23000	25.5	8.3	6.6	86	--	18
			1.7	24000	25.5	8.3	6.7	87	--	--
MAY 16, 72	1335	7	.3	4600	25.8	8.1	10.1	125	--	64
			1.2	4600	25.8	8.1	9.7	120	--	--
JUL 17, 72	1545	7	.3	10000	28.5	8.6	11.4	150	--	41
			.9	7900	28.6	8.5	10.2	134	--	--
SEP 21, 72	1545	7	.3	15000	30.0	8.4	7.8	107	--	43
			1.5	15000	29.9	8.4	7.6	104	--	--
DEC 12, 72	1030	7	.3	30000	7.0	8.2	9.7	90	600	5
			1.5	30000	6.9	8.2	10.2	94	500	--
MAR 19, 73	1325	7	.3	35000	19.9	8.0	--	--	50	61
			1.5	35000	20.0	7.9	--	--	250	--
MAY 15, 73	1505	7	.3	5000	22.4	8.5	11.1	128	500	13
			1.5	5000	22.5	8.5	10.2	119	500	--
			2.1	5000	22.5	8.4	9.6	105	500	--
AUG 02, 73	1335	7	.3	5000	30.0	--	--	--	50	51
			1.2	11000	30.1	--	--	--	200	--
AUG 10, 73	1050	7	.3	1300	30.0	--	7.3	96	70	30
			1.2	1400	29.6	--	6.5	84	75	--
DEC 06, 71	1400	8	.3	23000	13.3	8.0	10.4	107	--	36
			.6	24000	13.6	7.9	10.3	106	--	--
			1.2	31000	13.4	7.9	9.6	103	--	--
			1.8	31000	13.2	7.8	9.4	100	--	--
DEC 06, 71	1500	8	.3	21000	13.4	7.9	10.1	103	--	36
			.6	21000	13.4	7.9	10.5	107	--	--
			1.2	22000	13.3	7.9	10.3	106	--	--
			1.8	30000	12.8	7.8	9.4	100	--	--
DEC 07, 71	1010	8	.3	15000	12.8	8.3	10.9	108	28	66
			.9	26000	12.9	8.2	10.5	108	--	--
			1.8	31000	12.7	8.0	9.4	99	--	--
MAR 14, 72	1115	8	.3	18000	22.3	8.3	9.7	117	10	96
			1.7	23000	22.4	8.2	10.2	124	10	--
MAR 15, 72	0845	8	.3	19000	22.2	8.2	8.8	106	110	15
			1.7	19000	22.2	8.2	9.2	111	70	--
APR 25, 72	1210	8	.5	24000	25.4	8.3	7.1	92	--	20

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

WATER YEARS 1972 AND 1973--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 25, 72	1210	8	1.5	24000	25.4	8.3	7.0	91	--	--
			2.4	24000	25.5	8.3	6.7	87	--	--
MAY 15, 72	1613	8	.3	8300	25.7	8.4	12.1	149	--	86
			1.5	11000	25.6	8.4	11.6	143	--	--
			2.7	22000	24.6	8.0	5.5	71	--	--
MAY 16, 72	1340	8	.3	9000	26.0	8.3	12.9	161	--	102
			1.7	11000	25.9	8.3	11.6	145	--	--
MAY 17, 72	0957	8	.3	8000	25.0	8.3	8.6	105	--	33
			2.1	10000	25.1	8.2	7.3	89	--	--
MAY 22, 72	1225	8	.3	1400	26.1	8.0	7.1	87	--	18
			1.8	1400	26.3	8.0	6.9	84	--	--
JUN 14, 72	1652	8	.3	5800	30.0	8.3	8.9	120	--	18
			1.8	5800	29.8	8.2	8.1	109	--	--
JUN 14, 72	1740	8	.5	3400	28.6	8.4	11.5	149	--	23
			1.5	3400	28.6	8.4	11.4	148	--	--
			2.1	3800	28.5	8.4	12.1	155	--	--
JUL 17, 72	1555	8	.3	11000	28.8	8.6	11.8	155	--	38
			1.7	14000	27.7	8.3	8.5	110	--	--
JUL 18, 72	1220	8	.3	12000	28.8	8.5	10.5	140	--	38
			1.5	12000	28.4	8.4	11.3	149	--	--
SEP 21, 72	1550	8	.3	17000	30.0	8.4	7.5	104	--	46
			1.7	17000	29.9	8.4	7.0	97	--	--
DEC 12, 72	1020	8	.3	30000	7.0	8.2	9.8	91	90	41
			1.8	30000	6.9	8.2	11.2	104	145	--
DEC 13, 72	0825	8	.3	28000	5.9	8.2	10.6	95	115	30
			1.2	28000	5.6	8.0	10.6	95	700	--
MAR 19, 73	1305	8	.3	35000	20.0	8.0	8.1	101	150	56
			1.2	34000	19.9	8.0	--	--	300	--
			2.4	37000	20.0	7.9	7.7	96	120	--
MAR 20, 73	0845	8	.6	39000	18.7	8.0	7.3	90	100	43
			1.8	39000	18.5	8.0	7.6	93	80	--
MAY 15, 73	1515	8	.3	4700	22.3	8.5	10.9	125	199	13
			1.5	5400	22.4	8.5	11.0	128	290	--
AUG 02, 73	1345	8	.3	4800	30.2	7.7	10.5	140	--	38
			1.5	18000	30.6	7.5	7.6	109	110	--
AUG 10, 73	1040	8	.3	1400	30.6	--	7.2	96	100	38
			1.5	1600	30.0	--	6.5	86	250	--
DEC 07, 71	1005	9	.3	12000	12.1	8.4	11.2	108	--	71
			.9	21000	12.4	8.2	10.9	109	--	--
			1.8	31000	11.4	8.0	9.3	96	--	--
MAR 14, 72	1110	9	.3	17000	22.3	8.3	10.3	124	10	94
			1.7	16000	22.6	8.3	11.3	136	25	--
APR 25, 72	1221	9	.5	24000	25.6	8.3	7.5	97	--	20
			1.8	24000	25.6	8.3	7.2	93	--	--
MAY 16, 72	1350	9	.3	12000	26.3	8.3	11.5	146	--	91
			2.0	13000	26.4	8.3	9.2	116	--	--
JUL 17, 72	1600	9	.3	12000	28.7	8.6	12.5	167	--	61
			1.7	16000	28.2	8.4	10.2	136	--	--

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

WATER YEARS 1972 AND 1973--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						
SEP 21, 72	1615	9	.3	19000	30.0	8.4	7.6	106	--	48	
			1.5	20000	29.9	8.4	7.3	103	--	--	
DEC 12, 72	1015	9	.3	30000	7.2	8.2	9.8	92	85	51	
			1.5	30000	6.7	8.2	10.2	94	90	--	
MAR 19, 73	1250	9	.3	39000	20.0	8.0	--	--	50	56	
			1.5	38000	20.0	8.0	--	--	60	--	
MAY 15, 73	1520	9	.3	3900	22.3	8.5	10.5	121	190	25	
			1.5	3900	22.4	8.4	10.7	123	200	--	
AUG 02, 73	1355	9	.3	6600	30.2	7.2	10.4	141	45	66	
			1.5	7400	30.2	7.3	9.9	134	50	--	
AUG 10, 73	1030	9	.3	3500	30.2	--	6.9	92	55	41	
			1.5	5900	29.7	--	6.4	85	60	--	
					LINE 291						
DEC 08, 71	1505	1	.3	34000	16.6	8.1	12.4	143	--	137	
			1.2	34000	16.7	8.1	12.8	147	--	--	
MAR 15, 72	1600	1	.3	34000	23.9	8.4	7.6	101	--	126	
			1.8	34000	23.9	8.4	7.6	101	--	--	
APR 25, 72	1410	1	.5	32000	25.9	8.2	7.2	99	--	61	
			1.8	32000	25.8	8.2	6.7	92	--	--	
MAY 16, 72	1700	1	.5	24000	26.1	8.2	10.6	139	--	119	
			2.1	28000	25.8	8.0	9.4	127	--	--	
JUL 18, 72	1120	1	.3	18000	28.6	8.4	11.5	158	--	66	
			1.2	18000	29.0	8.3	9.9	136	--	--	
SEP 21, 72	1130	1	.3	24000	28.8	8.4	7.7	107	20	--	
			2.0	25000	28.8	8.4	7.3	103	55	--	
DEC 13, 72	1105	1	.3	39000	7.4	8.1	9.5	92	75	51	
			1.5	39000	7.2	8.1	10.2	99	125	--	
MAR 20, 73	1125	1	.9	38000	18.8	8.1	7.5	93	120	--	
			1.8	38000	19.0	8.1	7.5	93	120	--	
MAY 15, 73	1420	1	.3	26000	23.0	8.3	11.1	139	60	46	
			1.8	26000	23.2	8.3	11.3	141	70	--	
AUG 02, 73	1240	1	.3	13000	30.1	8.4	--	--	65	56	
			1.8	13000	30.0	8.6	--	--	50	--	
AUG 10, 73	1130	1	.3	6900	30.6	--	6.7	92	50	48	
			1.5	13000	30.1	--	6.0	82	65	--	
DEC 08, 71	1520	2	.3	30000	16.1	8.2	12.4	139	--	112	
			1.8	32000	16.2	8.1	11.8	133	--	--	
MAR 15, 72	1555	2	.3	26000	23.8	8.2	8.1	104	10	--	
			1.8	29000	23.8	8.2	9.0	117	30	--	
APR 25, 72	1417	2	.5	32000	25.8	8.3	7.9	108	--	30	
			1.5	32000	25.7	8.3	7.9	107	--	--	
			2.1	32000	25.7	8.3	7.4	100	--	--	
MAY 16, 72	1707	2	.5	16000	26.2	8.3	12.5	160	--	109	
			1.5	17000	26.0	8.3	12.1	157	--	--	
			2.4	29000	25.3	7.8	7.1	95	--	--	
JUL 18, 72	1130	2	.3	18000	28.8	8.4	10.5	144	--	97	

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

WATER YEARS 1972 AND 1973--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 291 CONTINUED						
JUL 18, 72	1130	2	1.5	19000	28.3	8.4	10.7	145	--	--
			2.1	19000	28.2	8.3	10.1	136	--	--
SEP 21, 72	1135	2	.3	21000	29.2	8.4	7.6	106	15	--
			2.0	24000	29.2	8.3	5.5	76	15	--
DEC 13, 72	1110	2	.3	37000	7.2	8.1	9.5	91	100	38
			1.5	37000	7.1	8.1	9.7	92	110	--
MAR 20, 73	1135	2	.9	38000	17.5	8.1	7.4	89	160	--
			1.8	38000	17.5	8.1	7.4	89	160	--
MAY 15, 73	1410	2	.3	22000	23.0	8.3	11.8	146	80	46
			1.8	22000	23.1	8.3	10.8	133	155	--
AUG 02, 73	1225	2	.3	10000	29.8	--	--	--	40	61
			1.8	14000	30.0	--	--	--	70	--
AUG 10, 73	1135	2	.3	3800	30.7	--	7.3	99	60	30
			1.8	12000	30.0	--	5.6	77	85	--
MAR 15, 72	1550	3	.3	27000	24.0	8.5	7.9	103	--	102
			1.8	27000	24.0	8.5	8.1	105	--	--
APR 25, 72	1424	3	.5	32000	25.7	8.3	7.9	107	--	30
			1.5	32000	25.6	8.3	7.9	107	--	--
			2.1	32000	25.6	8.3	7.9	107	--	--
MAY 16, 72	1715	3	.5	13000	26.0	8.3	12.3	156	--	112
			2.4	23000	25.5	8.2	6.6	86	--	--
JUL 18, 72	1110	3	.3	17000	27.8	8.3	10.5	142	--	67
			1.5	17000	27.9	8.3	10.5	142	--	--
			2.1	17000	28.9	8.3	9.0	122	--	--
SEP 21, 72	1145	3	.3	24000	29.2	8.4	8.0	111	25	--
			2.0	22000	29.7	8.4	7.3	103	50	--
DEC 13, 72	1120	3	.3	36000	7.5	8.1	9.5	91	100	45
			1.5	36000	7.3	8.1	9.7	93	100	--
MAR 20, 73	1150	3	.9	34000	18.9	8.2	7.7	93	140	--
			1.8	34000	18.9	8.2	7.7	93	170	--
MAY 15, 73	1400	3	.3	22000	22.9	8.4	10.2	126	150	38
			1.8	19000	22.9	8.3	10.7	131	190	--
AUG 02, 73	1210	3	.3	6500	29.9	--	--	--	50	76
			1.5	10000	29.8	--	--	--	40	--
AUG 10, 73	1145	3	.3	3400	31.3	--	8.7	118	60	41
			1.5	8000	30.2	--	6.4	86	110	--
MAR 15, 72	1530	4	.3	25000	24.2	8.5	7.7	99	--	62
			1.8	25000	24.2	8.5	7.5	96	--	--
APR 25, 72	1431	4	.5	27000	25.7	8.3	7.8	104	--	25
			1.5	27000	25.6	8.3	7.9	105	--	--
			2.1	27000	25.6	8.4	7.8	104	--	--
MAY 16, 72	1722	4	.5	10000	25.9	8.3	11.5	144	--	79
			2.4	17000	25.3	7.8	4.9	63	--	--
JUL 18, 72	1100	4	.3	15000	28.2	8.3	11.7	156	--	61
			1.5	16000	27.9	8.3	12.8	171	--	--
			2.1	15000	27.9	8.2	11.6	155	--	--
SEP 21, 72	1150	4	.3	20000	29.7	8.4	8.1	114	25	--
			2.0	22000	29.6	8.3	6.6	93	50	--

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

WATER YEARS 1972 AND 1973--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						
DEC 13, 72	1125	4	.3	33000	7.0	8.1	9.8	92	85	51	
			1.5	33000	7.0	8.1	10.1	95	150	--	
MAR 20, 73	1200	4	.9	34000	19.0	8.1	7.6	92	120	--	
			1.8	34000	19.0	8.1	7.6	92	135	--	
MAY 15, 73	1350	4	.3	14000	22.5	8.3	10.5	125	150	38	
			1.5	14000	22.6	8.3	11.3	135	350	--	
			2.1	14000	22.6	8.3	11.1	132	300	--	
AUG 02, 73	1200	4	.3	5300	29.9	--	--	--	30	51	
			1.5	18000	30.5	--	--	--	75	--	
AUG 10, 73	1155	4	.3	1400	30.7	--	9.2	123	70	38	
			1.5	1500	30.1	--	6.7	88	70	--	
					LINE 294						
DEC 08, 71	1445	1	.3	30000	16.3	8.2	13.5	153	--	114	
			1.8	30000	16.3	8.2	13.5	153	--	--	
MAR 15, 72	1540	1	.3	29000	23.8	8.2	8.6	112	26	56	
			2.0	29000	23.8	8.2	9.0	117	40	--	
APR 25, 72	1354	1	.5	29000	25.8	8.2	7.8	105	--	28	
			1.5	29000	25.8	8.2	7.8	105	--	--	
			2.1	29000	25.8	8.3	7.4	100	--	--	
MAY 16, 72	1645	1	.5	21000	26.3	8.2	10.3	136	--	147	
			2.3	21000	26.4	8.2	9.9	130	--	--	
JUL 18, 72	1150	1	.3	19000	28.4	8.4	11.3	153	--	97	
			1.5	20000	28.6	8.4	10.6	147	--	--	
			2.1	22000	29.0	8.3	9.8	136	--	--	
SEP 21, 72	1115	1	.3	24000	29.1	8.4	7.8	108	5	--	
			2.1	25000	28.9	8.4	7.3	103	18	--	
DEC 13, 72	1050	1	.3	35000	7.1	8.1	9.5	90	70	38	
			1.5	35000	7.1	8.1	9.5	90	65	--	
MAR 20, 73	1115	1	.9	40000	19.1	8.1	7.2	90	140	--	
			2.1	40000	19.1	8.1	7.2	90	200	--	
MAY 15, 73	1430	1	.3	21000	23.2	8.3	10.9	135	65	46	
			1.8	21000	23.1	8.3	11.2	138	75	--	
AUG 02, 73	1245	1	.3	11000	29.9	7.9	--	--	40	51	
			1.8	13000	29.8	7.9	--	--	50	--	
AUG 10, 73	1120	1	.3	11000	30.4	--	6.7	91	50	41	
			1.5	14000	29.7	--	6.1	82	45	--	
DEC 08, 71	1435	2	.3	27000	16.1	8.2	14.2	158	--	97	
			1.8	27000	16.2	8.2	14.2	160	--	--	
MAR 15, 72	1530	2	.3	27000	24.0	8.2	7.2	94	20	84	
			1.8	27000	23.8	8.2	8.4	109	50	--	
APR 25, 72	1344	2	.5	29000	25.8	8.2	7.8	105	--	30	
			1.5	29000	25.8	8.2	7.8	105	--	--	
			2.1	29000	25.8	8.2	7.4	100	--	--	
MAY 15, 72	1635	2	.5	21000	25.7	8.4	10.7	139	--	102	
			1.5	21000	25.6	8.3	10.4	135	--	--	
			2.1	21000	25.8	8.3	9.7	128	--	--	
MAY 16, 72	1635	2	.3	15000	26.4	8.3	10.8	138	--	112	

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

WATER YEARS 1972 AND 1973--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 294 CONTINUED						
MAY 16, 72	1635	2	1.8	15000	26.3	8.3	10.5	135	--	--
MAY 17, 72	1012	2	.3	14000	25.1	8.3	9.8	121	--	104
			2.3	19000	25.3	8.1	7.9	101	--	--
MAY 22, 72	1320	2	.3	3800	27.0	8.6	8.8	110	--	46
			2.0	3800	26.7	8.6	8.5	106	--	--
JUN 14, 72	1711	2	.3	2700	28.6	8.3	10.9	142	--	28
			1.5	2700	28.6	8.3	13.4	174	--	--
			2.1	2900	28.5	8.3	15.0	192	--	--
JUL 18, 72	1200	2	.3	19000	28.4	8.4	11.5	155	--	64
			1.5	18000	28.2	8.4	10.5	142	--	--
			2.1	18000	28.8	8.4	10.1	138	--	--
SEP 21, 72	1105	2	.3	21000	29.0	8.4	8.1	112	10	--
			2.1	21000	29.2	8.4	7.4	103	50	--
DEC 13, 72	1040	2	.3	32000	7.2	8.1	9.6	90	110	38
			1.8	32000	7.2	8.2	9.8	92	110	--
MAR 20, 73	1100	2	.9	40000	18.9	8.1	7.2	90	180	--
			1.8	40000	18.5	8.1	7.3	90	180	--
MAY 15, 73	1440	2	.3	12000	23.0	8.5	10.9	130	180	25
			1.8	22000	23.0	8.3	11.0	136	120	--
AUG 02, 73	1250	2	.3	9200	29.9	7.9	--	--	40	66
			1.5	12000	29.8	7.8	--	--	50	--
AUG 10, 73	1110	2	.3	8000	30.3	--	5.8	78	55	41
			1.5	8000	29.7	--	5.9	79	60	--
DEC 08, 71	1420	3	.3	18000	16.0	8.4	14.0	149	--	81
			1.8	20000	16.1	8.3	13.5	145	--	--
MAR 15, 72	1520	3	.3	27000	24.4	8.2	8.0	104	37	53
			1.1	27000	24.6	8.2	8.7	114	58	--
APR 25, 72	1335	3	.5	27000	26.0	8.2	7.9	107	--	25
			1.5	27000	26.0	8.2	7.9	107	--	--
MAY 16, 72	1625	3	.5	13000	26.2	8.4	13.1	166	--	97
			1.7	13000	26.1	8.4	13.5	171	--	--
JUL 18, 72	1210	3	.3	14000	28.7	8.5	11.7	156	--	51
			1.8	14000	29.0	8.4	11.1	148	--	--
SEP 21, 72	1045	3	.3	24000	28.8	8.4	8.2	114	12	--
			1.1	26000	28.9	8.4	8.1	114	12	--
DEC 13, 72	1035	3	.3	28000	6.7	8.1	9.7	88	150	30
			1.5	28000	6.9	8.2	9.8	90	170	--
MAR 20, 73	1050	3	.9	40000	18.6	8.1	7.5	93	180	--
			1.8	40000	18.6	8.1	7.5	93	180	--
MAY 15, 73	1450	3	.3	2000	22.9	8.5	10.9	127	250	25
			1.8	2400	22.9	8.3	11.3	131	240	--
AUG 02, '73	1320	3	.3	9000	30.4	8.1	--	--	60	51
			1.5	21000	30.8	8.7	--	--	50	--
AUG 10, 73	1100	3	.3	8500	29.9	--	6.1	82	65	38
			1.2	8500	29.8	--	5.8	78	70	--
DEC 08, 71	1405	4	.3	14000	16.3	8.4	12.7	134	--	23
			1.5	20000	16.0	8.2	10.9	117	--	--

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

WATER YEARS 1972 AND 1973--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 294 CONTINUED					
DEC 08, 71	1405	4	3.0	31000	15.7	8.0	9.0	101	--	--
			4.3	35000	16.1	7.9	8.0	92	--	--
MAR 15, 72	1140	4	.5	23000	23.5	8.2	8.3	109	40	51
			1.5	23000	23.5	8.2	8.8	110	30	--
			3.0	24000	23.3	8.2	8.7	109	30	--
			4.0	23000	23.4	8.2	8.8	110	40	--
APR 25, 72	1323	4	.3	27000	26.4	8.2	7.7	104	--	30
			1.5	27000	26.2	8.2	7.6	103	--	--
			3.0	27000	26.1	8.2	7.4	100	--	--
			4.7	27000	25.9	8.1	6.8	92	--	--
MAY 16, 72	1405	4	.3	14000	26.4	8.3	11.7	148	--	109
			1.5	15000	26.1	8.2	11.0	141	--	--
			3.5	16000	25.8	8.1	9.7	124	--	--
MAY 22, 72	1305	4	.3	3900	27.0	8.6	7.5	94	--	33
			1.5	3900	26.9	8.6	7.5	94	--	--
			3.0	4000	26.7	8.5	7.1	89	--	--
			4.3	4100	26.8	8.4	6.4	80	--	--
JUN 14, 72	1720	4	.3	3300	29.4	8.4	11.5	151	--	28
			1.5	3400	29.1	8.4	12.6	164	--	--
			3.0	3700	28.2	8.3	12.7	163	--	--
			3.7	3600	28.0	8.2	12.1	155	--	--
JUL 18, 72	1235	4	.3	20000	28.8	8.4	10.2	142	--	53
			1.5	20000	28.3	8.3	10.5	144	--	--
			3.0	20000	28.3	8.2	9.8	134	--	--
			4.0	19000	28.5	8.2	9.1	123	--	--
SEP 21, 72	1055	4	.3	26000	28.8	8.4	7.2	103	20	--
			1.5	28000	28.5	8.3	6.8	97	30	--
			3.0	28000	28.6	8.2	6.7	96	30	--
			4.0	28000	29.1	8.2	6.8	97	55	--
DEC 13, 72	0840	4	.3	26000	6.3	8.1	9.7	87	160	25
			1.5	26000	6.2	8.2	9.5	86	190	--
			3.0	26000	6.3	8.2	9.6	86	170	--
			4.0	26000	6.3	8.1	9.8	88	165	--
MAR 20, 73	0855	4	.3	39000	18.1	8.0	7.3	89	60	41
			1.5	39000	18.1	8.0	7.2	87	50	--
			3.0	39000	18.1	8.0	7.1	88	115	--
			4.3	39000	18.1	8.0	7.3	89	400	--
MAY 15, 73	1530	4	.3	6500	22.0	8.5	12.2	142	240	25
			1.5	7800	22.0	8.4	10.8	126	240	--
			3.0	9000	21.8	8.3	10.4	121	350	--
AUG 02, 73	1405	4	.3	10000	30.5	7.5	9.2	131	55	43
			1.5	14000	30.4	7.4	8.1	114	--	--
			3.0	18000	30.5	7.2	7.0	100	--	--
			4.9	21000	30.6	7.1	6.8	97	--	--
AUG 10, 73	1020	4	.3	11000	29.5	--	6.0	80	60	41
			1.5	12000	29.5	--	5.8	78	65	--
			3.0	12000	29.8	--	5.7	78	85	--
			4.9	14000	30.1	--	5.7	78	90	--
					LINE 302					
DEC 09, 71	0950	1	.5	33000	17.1	8.1	8.9	103	--	152
			.9	33000	17.1	8.1	8.9	103	--	--
			2.1	36000	16.9	8.1	8.8	104	--	--
MAR 15, 72	1620	1	.3	39000	24.6	8.3	7.4	101	--	152

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

WATER YEARS 1972 AND 1973--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 302 CONTINUED						
MAR 15, 72	1620	1	1.5	39000	24.6	8.3	7.5	103	--	--
APR 25, 72	1523	1	.5	32000	25.9	8.3	7.5	103	--	41
			1.8	32000	25.7	8.3	7.2	97	--	--
MAY 16, 72	0935	1	.3	18000	25.1	8.2	9.1	115	--	109
			1.2	20000	25.2	8.2	9.2	118	--	--
			1.8	26000	25.0	8.1	7.8	101	--	--
JUL 18, 72	1155	1	.3	18000	29.2	8.4	8.5	116	--	53
			2.1	18000	29.2	8.3	8.4	115	--	--
SEP 21, 72	1220	1	.3	25000	29.6	8.4	9.5	136	10	--
			1.8	26000	29.6	8.4	9.5	136	30	--
DEC 13, 72	1205	1	.3	41000	7.5	8.0	9.7	96	80	64
			.9	41000	7.6	8.0	9.5	94	--	--
			1.5	41000	7.8	8.0	9.6	96	120	--
MAR 20, 73	1240	1	.9	37000	19.9	8.1	7.6	95	280	--
			1.8	37000	19.9	8.1	7.6	95	290	--
MAY 15, 73	1310	1	.3	27000	23.0	8.3	10.8	137	70	46
			1.8	31000	23.2	8.2	9.9	127	135	--
AUG 02, 73	1045	1	.3	--	29.6	--	--	--	55	53
			1.5	--	29.7	--	--	--	60	--
AUG 10, 73	1250	1	.3	4500	31.5	7.4	6.7	91	50	46
			1.5	7800	30.3	7.3	6.1	82	70	--
DEC 09, 71	0940	2	.5	29000	16.3	8.2	9.6	108	--	119
			.9	29000	16.3	8.2	9.6	108	--	--
			2.0	36000	16.1	8.0	8.9	102	--	--
MAR 15, 72	1615	2	.3	37000	24.1	8.2	8.6	115	20	193
			1.8	37000	24.2	8.2	9.0	120	20	--
APR 25, 72	1515	2	.5	34000	25.9	8.3	7.2	100	--	38
			2.0	34000	25.8	8.3	6.8	94	--	--
MAY 16, 72	0925	2	.3	11000	24.9	8.1	8.8	107	--	91
			.9	11000	24.9	8.1	8.8	107	--	--
			1.5	14000	24.8	8.1	8.7	107	--	--
			1.8	26000	24.9	7.9	5.5	71	--	--
			2.1	28000	24.7	7.9	5.3	70	--	--
JUL 18, 72	1142	2	.3	15000	29.1	8.4	8.3	114	--	37
			2.1	15000	28.9	8.3	8.3	114	--	--
SEP 21, 72	1215	2	.3	24000	29.6	8.4	9.6	135	25	--
			2.0	26000	29.3	8.4	8.6	121	25	--
DEC 13, 72	1155	2	.3	36000	7.4	8.1	9.7	93	70	66
			1.5	36000	7.4	8.1	9.7	93	85	--
MAR 20, 73	1230	2	.9	36000	19.9	8.1	7.5	94	275	--
			1.8	38000	19.8	8.1	7.4	92	300	--
MAY 15, 73	1315	2	.3	22000	22.7	8.3	11.2	138	80	46
			1.8	22000	22.7	8.3	11.8	146	130	--
AUG 02, 73	1055	2	.3	6100	29.6	--	--	--	55	51
			1.5	6400	29.6	--	--	--	70	--
AUG 10, 73	1240	2	.3	1300	31.0	7.4	6.9	92	75	36
			1.5	8500	30.5	7.2	5.9	80	75	--
DEC 09, 71	0930	3	.5	30000	16.4	8.1	9.2	105	--	142