

Water Resources Data Louisiana Water Year 1981

Volume 3. Coastal Louisiana



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT LA-81-3
Prepared in cooperation with the Louisiana
Department of Transportation and Development
and with other State and Federal agencies

CALENDAR FOR WATER YEAR 1981

											1980)									
		OC	TOE	ER					I	10 V	'EM	BEI	3				DEC	EM	BEF	3	
S	M	Т	W	Т	F	S		S	M	Т	W	Т	F	S	S	M	Т	W	Т	F	S
			1	2	3	4								1		1	2	3	4	5	6
5	6	7	8	9	10	11		2	3	4	5	6	7	8		7 8	9	10	11	12	13
12	13	14	15	16	17	18		9	10	11	12	13	14	15	14	1 15	16	17	18	19	20
19	20	21	22	23	24	25		6	17	18	19	20	21	22	2		23	24	25	26	27
26	27	28	29	30	31			0	24	25	26	27	28	29	28	3 29	30	31			
											198	1									
													12								
		JAI	NUA	RY					F	EB	RU.	AR'	Y				M	AR	СН		
S	M	Т	W	Т	F	S		S	M	Т	W	Т	F	S	S	M	Т	W	Т	F	S
				1	2	3		1	2	3	4	5	6	7		1 2	3	4	5	6	7
4	5	6	7	8	9	10		8	9	10	11	12	13	14		3 9	10	11	12	13	14
11	12	13	14	15	16	17		5	16	17	18	19	20	21	1!		17	18	19	20	21
18	19	20	21	22	23	24	2	2	23	24	25	26	27	28	2:			25	26	27	28
25	26	27	28	29	30	31									25	30	31				
		Д	PR	L						1	MAY	1						IUN	E		
S	M	Т	W	Т	F	S	:	S	M	T	W	Т	F	S	S	M	Т	W	Т	F	S
			1	2	3	4							1	2		1	2	3	4	5	6
5	6	7	8	9	10	11		3	4	5	6	7	8	9		7 8	9	10	11	12	13
12	13	14	15	16	17	18	1	0	11	12	13	14	15	16	14	1 15	16	17	18	19	20
							1												25	26	27
26	27	28	29	30			3	1	25	26	27	28	29	30	28	3 29	30				
		J	UL,	Y						AL	JGU	ST					SEP	ГЕМ	BE	R	
S	M	Т	W	Т	F	S		S	M	Т	W	Т	F	S	S	M	Т	W	Т	F	S
12	13	14	15	9	10 17	4 11 18		9	10	11	12	13	14	1 8 15	13	14	15	9	10 17	18	12 19
	20 27					25	1									21 7 28			24	25	26
20	21	20	25	30	O I				31	20	20	21	20	25	2.	20	29	30			



Water Resources Data Louisiana

Water Year 1981

Volume 3. Coastal Louisiana



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT LA-81-3
Prepared in cooperation with the Louisiana
Department of Transportation and Development
and with other State and Federal agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in Louisiana write to District Chief, Water Resources Division
U.S. Geological Survey
P.O. Box 66492
Baton Rouge, LA 70896

PREFACE

This report was prepared by personnel of the Louisiana district of the Water Resources Division of the U.S. Geological Survey under the supervision of Darwin D. Knochenmus, District Chief, and Alfred Clebsch, Jr., Regional Hydrologist, Central Region. It was done in cooperation with the State of Louisiana and with other agencies.

This report is one of a series issued by State. General direction for the series is by Philip Cohen, Chief Hydrologist, U.S. Geological Survey, and Robert J. Dingman, Assistant Chief Hydrologist for Scientific Publications and Data Management.

Data for Louisiana are in three volumes as follows:

Volume 1. Central and northern Louisiana

Volume 2. Southern Louisiana

Volume 3. Coastal Louisiana

50272 -101

REPORT DOCUMENTATION PAGE	1. REPORT NO. USGS/WRD/HD-81/012	2.	3. Recipient's Accession No.
	ta Louisiana, Water Year 198	1	5. Report Date December 1981
Volume 3. Coastal	Louisiana		6.
7. Author(s)			8. Performing Organization Rept. No. USGS-WDR-LA-3
9. Performing Organization Name	and Address		10. Project/Task/Work Unit No.
	rvey, Water Resources Divisi	on	11. Contract(C) or Grant(G) No.
P.O. Box 66492 Baton Rouge, Louis	iana 70896		(C)_
Baton 110202, 22222	24.4		(G)
12. Sponsoring Organization Name	and Address		13. Type of Report & Period Covered
U.S. Geological Su P.O. Box 66492	rvey, Water Resources Divisi	on	10/1/80 to 9/30/81
Baton Rouge, Louis	iana 70896		14.

15. Supplementary Notes

Prepared in cooperation with the State of Louisiana and with other agencies.

16. Abstract (Limit: 200 words)

Water resources data for the 1981 water year for Louisiana consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. This report, in three volumes, contains records for water discharge at 81 gaging stations (including stage for 76 of these stations); stage only for 37 gaging stations and 10 lakes; contents for 1 reservoir; water quality for 142 surface-water stations (including 35 gaging stations), 27 miscellaneous sites, and 10 lakes, and 286 wells; and water levels for 679 observation wells. Also included are data for 250 crest-stage and flood-profile partial-record stations. Additional water data were collected at various sites not involved in the systematic data-collection program, and are published as miscellaneous measurements. Records for a few pertinent stations in bordering states are also included in this report. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Louisiana.

17. Document Analysis a. Descriptors

*Louisiana, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses.

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

18. Availability Statement No restriction. This report may be purchased from National Technical Information Service, Springfield, VA 22161.

19.	Security Class (This Report)
	UNCLASSIFIED
20.	Security Class (This Page)

UNCLASSIFIED

21. No. of Pages
218
22. Price

CONTENTS

Duaface
Preface
Illustrations
List of gaging stations, in downstream order, for which records are published
Introduction
Cooperation
Hydrologic conditions
Definition of terms
Downstream order and station numbers
Numbering system for wells and miscellaneous sites
Special networks and programs
Explanation of stage and water-discharge records
Collection and computation of data
Accuracy of field data and computed results
Other data available
Records of discharge collected by agencies other than the
Geological Survey
Explanation of water-quality records
Collection and examination of data
Water analysis
Water temperatures
Sediment
Explanation of ground-water level records
Collection of the data
Publications on techniques of water-resources investigations
Hydrologic-data station records
Analyses of samples collected at miscellaneous sites
Potamological study
Ground-water:
Ground-water level records
Ground-water chemical analysis
Index

ILLUSTRATIONS

		Page
1.	System for numbering wells and miscellaneous sites	9
2.	Map showing location of continuous gaging stations	15
3.	Map showing location of water-quality stations in southeastern Louisiana	16
4.	Map showing location of water-quality stations	-
	in southwestern Louisiana	17
5.	Map showing location of observation wells	195
6.	Map showing location of wells for which water- quality data are included	210

	PAGE
LOWER MISSISSIPPI RIVER BASIN	
Mississippi River at New Orleans	19
Mississippi River at Belle Chasse	25
Mississippi River at Venice	32
Mississippi River, South Pass near Port Eads	36
Mississippi River, Southwest Pass near Burrwood	38
MISSISSIPPI RIVER DELTA	30
Lake Pontchartrain at GNO Expressway bridge, near	
New Orleans	40
Lake Pontchartrain at West Rigoletts, near Slidell	42
Lake Pontchartrain at Chef Menteur Pass, near Chef	
Menteur	44
Lake Pontchartrain (IHN Canal) at New Orleans	46
Intracoastal Waterway at NOPSI Plant, near Paris Road,	
at New Orleans	48
Chef Menteur Pass near Lake Borgne, at Chef Menteur	50
Mississippi River Gulf Outlet at Bayou Dupre,	
near Violet	52
Bayou Laloutre at Alluvial City, at Yscloskey	54
Mississippi River Gulf Outlet at mile -5.0,	
near Hopedale	56
Mississippi River Gulf Outlet near Hopedale	58
Black Bay near mouth of River Aux Chenes, near Bohemia	60
Bayou Long near Empire	62
Bayou Barataria at Lafitte	64
Barataria Bay Waterway near Lafitte	66
Lake Salvador (center) near Barataria	68
Barataria Bay Waterway near Grand Isle	70
Bayou Lafourche at Thibodaux	72
Company Canal at Lockport	73
Bayou Lafourche at Valentine	76
Bayou Lafourche (at IWW) at Larose	77
Bayou Lafourche at Galiano	80
Intracoastal Waterway at Houma	82
Bayou Terrebonne near Bourg	85
Bayou Petit Caillou near Boudreaux Canal, near Dulac	87
Bayou Grand Caillou near Dulac	89
Houma Navigation Canal at Houma	91
Houma Navigation Canal at Crozier	95
Lake De Cade near Theriot	97
Atchafalaya River (continuation of Red River):)
Chicot Pass at Myette Point, near Charenton	99
Wax Lake Outlet at Calumet	101
TIME IMPO VALUE AL CATAMICUS SESSESSESSESSESSESSESSESSESSESSESSESSE	

	PAGE
ACCUSED MEGGEGGEDDE DEUTED DAGEN. Garabiana I	
LOWER MISSISSIPPI RIVER BASINContinued	
MISSISSIPPI RIVER DELTAContinued	
Lower Atchafalaya River (continuation of Atchafalaya River):	108
Lower Atchafalaya River at Morgan City Bayou Boeuf:	108
Belle River:	
	110
Lake Verret near Pierre Part	119
Lake Verret near Georgia	121
Lake Palourde at Morgan City	123
Bayou Penchant at Bayou Chene, near Amelia	125
Lower Atchafalaya River at Eugene Island, near Morgan City	127
Bayou Teche at Charenton	129
Charenton drainage canal near Baldwin	131
Vermilion River at Perry	133
Vermilion River near Henry	134
Vermilion Bay at Redfish Point, near Henry	136
Vermilion Bay at Cypremort Point, near Louisa	138
Intracoastal Waterway at Vermilion Lock (east), near	
Intracoastal City	141
Intracoastal Waterway at Vermilion Lock (west), near	
Intracoastal City	144
Schooner Bayou east of control structure, near	
Forked Island	147
Freshwater Canal above Freshwater Bayou Lock (north),	
near Forked Island	149
WESTERN GULF OF MEXICO BASINS	
MERMENTAU RIVER BASIN	
Schooner Bayou west of control structure, near	
Forked Island	151
White Lake in northeast corner, near Little Prairie Ridge,	
near Forked Island	153
White Lake (east side) west of Schooner Bayou, near	
Forked Island	155
Grand Lake northeast of Catfish Point control structure,	
near Grand Chenier	157
Mermentau River at Lacassine Refuge, near Lowry	159
Intracoastal Waterway at Gibbstown	162
Gulf Intracoastal Waterway at Lake Misere, near Hayes	164
Mermentau River north of Catfish Point control structure,	101
near Grand Chenier	166
Mermentau River south of Catfish Point control structure,	100
near Grand Chenier	168
Mermentau River at Upper Mud Lake, near Grand Chenier	170
	1/0
CALCASIEU RIVER BASIN	172
Calcasieu Lake near Hackberry	174

INTRODUCTION

Water resources data for the 1981 water year for Louisiana consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. This report, in three volumes, contains discharge records for 81 gaging stations; stage record for 76 of these gaging stations; stage only for 37 gaging stations; contents for 1 reservoir; stage only for 10 lakes; water quality for 142 stations (35 of these at gaging stations), 27 miscellaneous sites, 10 lakes, and 286 wells; and water levels for 679 observation wells. Also included are data for 135 crest-stage partial-record stations and 115 flood-profile partial-record stations. Additional water data were collected at various sites, not involved in the systematic data-collection program, and are published as miscellaneous measurements and analysis. These data stations represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Louisiana.

Records of discharge or stage of streams and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

For water years 1961 through 1970, streamflow data were released by the Geological Survey in annual reports on a state-boundary basis. Water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a state-boundary basis. These official Survey reports carry an identification number consisting of the two-letter state abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report LA-81-3." Water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on page II or by telephone (504) 389-0281.

COOPERATION

The U.S. Geological Survey and organizations of the State of Louisiana have had cooperative agreements for the systematic collection of streamflow records since 1938, for ground-water levels since 1936, and for water-quality records since 1943. Organizations that assisted in collecting data through joint-funding agreements with the Survey are:

- Louisiana Department of Transportation and Development, Paul J.Hardy, Secretary: Office of Public Works, I. F. "Jiff" Hingle, Assistant Secretary, and Office of Highways, Neil L. Wagoner, Assistant Secretary.
- Louisiana Department of Natural Resources, Frank A. Ashby, Jr., Secretary: Water Pollution Control Division, J. Dale Givens, Administrator, and Office of Conservation, James H. Welsh, Chief of Surface Mining Division.
- City of Baton Rouge and Parish of East Baton Rouge, Pat Screen, Mayor-President: Department of Public Works, Robert G. Graves, Director.
- Sabine River Compact Administration, composed of Lamar E. Carroon, Federal Representative and Chairman; I. F. "Jiff" Hingle and Raymond J. Palmer for Louisiana; Neilson Davis, succeeded by David V. Gardner, and J. M. Syler for Texas.
- Capital Area Ground Water Conservation Commission, Charles M. Smith, Chairman.

Assistance in the form of funds or services was provided by the Corps of Engineers, U.S. Army, the U.S. Department of Energy, the U.S. Environmental Protection Agency, and the National Park Service in collection of records for 40 stage and discharge stations and 105 water-quality stations published in this report.

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface Water

The period of deficient flow that began in June 1980 continued into October. Not until mid-October was rainfall significant to change the decreasing streamflow trend. Even with above normal rainfall occurring mid-October through November, most index stations had monthly discharges that were below their long-term averages.

During December, rainfall was below normal in most of the State. This was reflected at four stations where the monthly average flow for December was the fourth lowest for the period of record. These sites are Paw Paw Bayou near Greenwood, Saline Bayou near Lucky, Bayou Toro near Toro, and Calcasieu River near Oberlin. The Mississippi River had several days of deficient flow in December. During the deficient-flow period, the discharge was below 200,000 ft³/s which created some concern in regard to low-water navigation and saltwater intrusion. The saltwater wedge had approached river mile 18 (near Buras) on December 10. The Mississippi River at Baton Rouge continued its downward trend through January 31, when the discharge dropped to 157,000 ft³/s. The saltwater wedge reached its most upstream position, river mile 61 (near Myrtle Grove), on February 3. Average flow for the Red River at Alexandria was only 10 percent of the long-term-average runoff for January; this flow, 3,940 ft³/s, was a record low for average flow during January.

In April, the Mississippi River at Baton Rouge had a new record minimum daily mean discharge for the month of 261,000 ft³/s. Deficient flow was also experienced at other index stations during April.

Streamflow conditions improved during May and June in the northwestern part of the State. Paw Paw Bayou near Greenwood had a record maximum daily mean flow for June of 6,670 ft 3 /s; the previous maximum for June was 3,180 ft 3 /s. Also, Bayou Toro near Toro had a new maximum daily flow of 3,570 ft 3 /s, compared to the previous maximum of 2,970 ft 3 /s.

Scattered rainfall during July, August, and September helped to relieve the deficient flow conditions at most index stations. On September 30, the daily mean discharge for the Mississippi River at Baton Rouge was again approaching 200,000 ${\rm ft}^3/{\rm s}$. This is the threshold rate for saltwater intrusion from the Gulf of Mexico.

Storage in Toledo Bend Reservoir on the Sabine River at the end of the 1980 water year was 3,711,000 acre-ft; at the end of the 1981 water year, the contents were 3,907,000 acre-ft, a net change of +196,000 acre-ft.

In the Mississippi River at New Orleans, dissolved-oxygen concentrations ranged from 5.3 to 12.3 Mg/L, water temperatures ranged from 5.0 to 31.5°C, and pH ranged from 7.0 to 7.7 units during the water year. All measured values met the limits for water quality criteria as set forth by the State of Louisiana. The criteria are 5.0 Mg/L for dissolved oxygen, 32.0°C for temperature, and 6.5 to 9.0 units for pH.

Ground Water

Public-supply and industrial pumping in northern and central Louisiana continued to cause regional water-level declines in wells in the Sparta Sand and Miocene aguifers. Generally, decline rates ranged from 0.5 to 2.5 feet per year. Water levels in some wells reached new lows for the period of record at the end of the water year. Hydrographs for wells screened in the Wilcox, Cockfield, and alluvial aguifers showed normal seasonal fluctuations. In some wells screened in the Red River alluvial aguifer near streams, water levels at the end of water year 1981 were 3 to 5 feet lower than at the end of water year 1980. Water levels in wells screened in the terrace aguifers in central Louisiana were 1.5 to 5 feet lower at the end of the water year 1981 than at the end of water year 1980, partly due to deficient precipitation in the winter and spring. The water level of well G-127R, key observation well in the terrace aguifer, was 1.5 feet lower than at the end of water year 1980, but was still 1 to 4 feet higher than during the 1964-72 period.

During this water year, levels in wells in the Chicot aquifer in southwestern Louisiana recovered from the record lows caused by deficient rainfall during the 1980 irrigation season. The residual effects of the seasonal drought caused water levels to be an average of 2.5 feet lower in the spring of 1981 than in 1980. However, seasonal low-water levels, during the 1981 pumping season averaged nearly a foot to about 3 feet higher than for the comparable period of 1980.

Chloride concentrations in some wells in the "500-foot" sand of the Chicot aquifer in the Lake Charles industrial area have been increasing since 1977. Chlorographs show a cyclic pattern that may be related to changes in pumping rates. Currently, the chloride concentrations range from about 200 to 450 Mg/l. In the southern part of Lake Charles, chloride concentrations in wells in the "700-foot" sand are increasing steadily at a rate of 25 to 30 Mg/l per year. Maximum chloride concentrations in pumped wells in that area now are about 750 Mg/l. The salinity of water in the "upper sand unit" of the Chicot aquifer in the Abbeville area has continued to rise during the past 6 years. The maximum concentration of chloride is now about 300 Mg/l.

Observation wells in the Evangeline aquifer in the Eunice and Opelousas areas had nearly consecutive record monthly low-water levels during the water year. At Eunice the level for September 1981 was the lowest recorded during 16 years of record.

In the Baton Rouge area, water levels in wells in the shallow aquifers continued their gradual rising rising trend; spring highs in wells in the "400-foot" sand were 1 to 20 feet higher this year than in 1980, but spring highs in wells in the "600-foot" sand were 3 to 8 feet lower. Declines of 1 to 5 feet occurred in wells in the "1,200-foot" sand in the past year. In wells in the "1,500-foot" sand, levels were 2 to 8 feet lower than last year and record lows were reached in several wells in July and August. Water levels in wells screened in the "2,000-foot" sand have risen 2 to 20 feet since 1980. In wells in the "2,400-foot" sand, levels were generally several feet above record lows reached in 1979 and 1980.

Saltwater encroachment in the "600-foot" sand of the Baton Rouge area has apparently slowed in recent years, in part because of reduced pumping from this sand, and no evidence of additional encroachment has been detected recently. In contrast, water from a monitor well (EB-807A) in the "1,500-foot" sand in south Baton Rouge has shown a sharp increase in chloride concentration, indicating that northward movement of salty water toward several well fields is continuing. Water from a monitor well in the "1,000-foot" sand (EB-805) has shown a steady increase in chloride concentration, from about 650 mg/l in 1967 to 5,700 mg/l in 1981, indicating probable northward or northwestward movement of salty water from the vincinity of this well.

In the New Orleans area, water levels in most wells in the Gonzales-New Orleans aquifer continued the rising trend that began in 1974. This year, levels in most observation wells were 1 to 8 feet higher than at comparable times last year. Levels in wells in the Norco and Gramercy aquifers were 1 to 6 feet lower than at comparable times last year.

In the Florida Parishes, water levels in the shallow sands (Upper and Lower Ponchatoula and Big Branch aquifers) showed little net change during 1981. In wells in the intermediate sands (Abita, Covington, Kentwood, Slidell, and Tchefuncta aquifers) and in the deep sands (Amite, Hammond, Ramsay, and Franklinton aquifers), water levels declined 2 to 6 feet since last year.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting inch-pound units to International System of metric units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of
1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

<u>Bacteria</u> are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often grouped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials. NOTE: The letter "K" preceding a value indicates the results are based on colony count outside the ideal range.

 $\frac{\text{Total coliform bacteria}}{\text{possible sewage pollution.}} \text{ are a particular group of bacteria that are used as indicators of possible sewage pollution.} \text{ They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms that produce colonies within 24 hours when incubated at 35°C <math display="inline">\pm$ 0.5°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all the organisms that produce blue colonies within 24 hours when incubated at $44.5^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$ on MFC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found in the intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies with 48 hours at 35°C \pm 1.0°C on M-enterrococcus medium (STORET CODE 31679), or on KF agar (STORET CODE 31673). Their concentrations are expressed as number of colonies per 100 mL of sample.

 $\underline{\tt Bed\ material}$ is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by micro-organisms, such as bacteria.

 $\frac{\text{Biomass}}{\text{area or}}$ is the amount of living matter present at any given time, expressed as the mass per unit $\frac{\text{Area or}}{\text{Area or}}$ volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry-mass determination has been ashed in a muffle furnace at a temperature of 500° C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in g/m³ (grams per cubic meter), and periphyton and benthic organisms in g/m² (grams per square meter).

<u>Dry mass</u> refers to the mass of residue present after drying in an oven at 60° C for zooplankton and 105° C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as for ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Recoverable from bottom material refers to the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

 $\underline{\text{Cfs-day}}$ is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

 $\underline{\text{Chlorophyll}} \text{ refers to the green pigments of plants. } \text{Chlorophyll } \underline{\underline{a}} \text{ and } \underline{\underline{b}} \text{ are the two most common pigments in plants.}$

 $\underline{\text{Color unit}}$ is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

<u>Contents</u> is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

 $\underline{\text{Control structure}}$ as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

 $\frac{\text{Discharge}}{\text{passes a given point within a given period of time.}}$

 ${\tt Mean\ discharge}\ ({\tt MEAN})$ is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

 $\underline{\text{Dissolved}}$ refers to that material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

 $\underline{\text{Diversity index}}$ is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\overline{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where $n_{\hat{\varepsilon}}$ is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity-index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution area, within the area unless otherwise noted.

<u>Drainage basin</u> is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water.

Elutriate is the supernatant resulting from the vigorous 30-minute shaking of 1 part bottom sediment with 4 parts water from the proposed disposal site followed by 1 hour of letting the mixture settle and appropriate filtration or centrifugation.

 $\frac{\text{Gage height}}{\text{tis often}} \hspace{0.2cm} \text{(G.H.)} \hspace{0.2cm} \text{is the water-surface elevation referred to some arbitrary gage datum.} \hspace{0.2cm} \text{Gage height is often} \hspace{0.2cm} \text{used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.}$

<u>Gaging station</u> is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

 $\underline{\text{Hardness}}$ of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO3).

<u>Hydrologic unit</u> is a geographic area representing part or all of a surface-drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Land-surface datum (LSD) is a datum plane that is approximately at land surface at each well.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

 $\frac{\text{Micrograms per gram}}{\text{(micrograms) of the}} \ (\text{Mg/g}) \ \text{is a unit expressing the concentration of a chemical element as the mass} \ (\text{micrograms}) \ \text{of the} \ \text{element sorbed per unit mass} \ (\text{gram}) \ \text{of sediment.}$

Micrograms per kilogram (Mg/kg) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (kilogram) of sediment.

 $\frac{\text{Micrograms per liter (Mg/L) is a unit expressing the concentration of chemical constituents in solution. Micrograms per liter represent the mass of solute per unit volume (liter) of water.}$

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

 ${\underline{\tt Total\ organism\ count}}$ is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

<u>Particle-size</u> is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

Classification	Size	9 (mm)	Method of analysis
Clay	0.00024	-	0.004	Sedimentation.
Silt	.004	-	.062	Sedimentation.
Sand	.062	-	2.0	Sedimentation or sieve.
Gravel	2.0	-	64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

<u>Percent composition</u> is a unit expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass or volume.

Pesticides are chemical compounds used to control the growth of undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

Insecticides are substances or a mixture of substances intended to prevent, destroy, or repel insects. The technical names for insecticides determined in this report are:

Aldrin 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-endo, $exo-1,\overline{4:5,8}$ -dimethanonaphthalene.

Chlordane 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7methanoindan.

DDD (combination of ortho and para isomers)
o,p'-DDD 1,1-dichloro-2-(o-chloropheny1)-2-

(p-chlorophenyl) -ethane,

p,p'-DDD 1,1-dichloro-2,2-bis(p-chlorophenyl)ethane.

DDE (combination of ortho and para isomers)
o,p'-DDE 1,1-dichloro-2-(o-chlorophenyl)-2-

(p-chlorophenyl) -ethylene,

p,p'-DDE 1,1-dichloro-2-bis(p-chlorophenyl) ethylene.

DDT (combination of ortho and para isomers)
o,p'-DDT 1,1,1-trichloro-2-(o-chlorophenyl)-2-

(p-chlorophenyl) -ethane, p,p'-DDT 1,1,1-trichloro-2,2-bis(p-chlorophenyl) ethane.

Diazinon 0,0-diethyl 0-2-isopropyl-4-methyl-6-pyrimidyl

thiophosphate.

Dieldrin 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-

octahydro-endo,exo-1,4:5,8-dimethanonaphthalene.
Endosulfan 1,4,5,6,7,7-hexachloro-5-norbornene-2,3-dimethanol

cyclic sulfite.

Endrin 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-

octahydro-endo,endo-1,4:5,8-dimethanonaphthalene.

Ethion 0,0,0',0'-tetraethyl S,S'methylenediphosphorodithioate.

Heptachlor 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-

methanoindene.

Heptachlor epoxide 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro-4,7-methanoindan.

Lindane 1,2,3,4,5,6-hexachlorocyclohexane, 99 percent or more

of gamma-isomer.

Malathion S-(1,2-dicarbethoxyethyl) 0,0-

dimethyldithiophosphate.

Methyl parathion 0,0-dimethyl 0-p-nitrophenyl phosphorothioate.

 $\frac{\text{Methyl trithion phosphorodithioic acid S-[[(4-chlorophenyl) thio]-methyl] 0,0-dimethyl ester.}$

Methoxychlor 1,1,1-trichloro-2,2-bis(p-methoxypheny1)ethane.
Mirex 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-1,3,4-

metheno-lH-cyclobuta[cd]pentalene.

Parathion 0,0-diethyl 0-p-nitrophenyl phosphorothioate.
Perthane 1,1'-(2,2-dichloroethylidene)bis[4-ethylbenzene].

Toxaphene chlorinated camphene containing 67-69 percent chlorine by weight.
Trithion phosphorodithioic acid S-[[(4-chlorophenyl)thio]

methyl] 0,0-diethyl ester.

Herbicides are substances or a mixture of substances intended to control or destroy any vegetation. The technical names for herbicides determined in this report are:

2,4-D (2,4-dichlorophenoxy)acetic acid.

2,4,5-T (2,4,5-trichlorophenoxy) acetic acid. Silvex 2-(2,4,5-trichlorophenoxy) propionic acid.

 $\frac{\text{Picocurie}}{\text{curie}} \text{ (PC, pCi) is one trillionth (1 x 10-12) of the amount of radioactivity represented} \\ \text{by a curie (Ci).} \quad \text{A curie is the amount of radioactivity that yields 3.7 x 1010 radioactive} \\ \text{disintegrations per second.} \quad \text{A picocurie yields 2.2 dpm (disintegrations per minute).} \\$

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

 $\frac{\text{Green algae}}{\text{s. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.}$

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

 $\frac{\text{Polychlorinated biphenyls}}{\text{biphenyls various percentages of chlorine.}} \text{ (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine.} \text{ They are similar in structure to organochlorine insecticides.}}$

 $\frac{\text{Polychlorinated napthalenes}}{\text{napthalene compounds having various percentages of chlorine.}} \text{ (PCNs)} \text{ are industrial chemicals that are mixtures of chlorinated napthalene compounds having various percentages of chlorine.}$

Runoff in inches (IN., in.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

<u>Suspended sediment</u> is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mean concentration times 0.0027.

 $\underline{\text{Suspended-sediment load}} \text{ is the quantity of suspended sediment passing a section in a specified period.}$

 $\underline{\text{Mean concentration}}$ is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour period.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lived.

 $\underline{\underline{\text{Natural substrates}}}$ refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lived.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplified the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S.G.S. Series Bed-Material Samplers.

 $\underline{\text{Suspended}}$ (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45-micrometer membrane filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less that 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) $\underline{\text{dissolved}}$ and (2) $\underline{\text{total}}$ concentrations of the constituent.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

 $\underline{\text{Tons per acre-foot}}$ indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

 $\underline{\text{Tons per day}}$ is the quantity of substance in solution or suspension that passes a stream section during a 24-hour period.

Total refers to the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

 $\underline{\text{Total load}}$ (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mean concentration of the constituent, times the factor 0.0027, times the number of days.

Total recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion precedures are likely to produce different analytical results.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	Hexagenia
Species	Hexagenia limbata
Genus	Hexagen

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

 $\underline{\mathtt{WRD}}$ is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to State annual basic-data reports published before 1975; since 1975, abbreviated as WDR (Water-Data Report).

 $\underline{\text{WSP}}$ is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 02489500, which appears just to the left of the station name, includes the 2-digit part number "02" plus the 6-digit downstream order number "489500". Records in this report, in three volumes, are in Part 2 (South Atlantic Slope and Eastern Gulf of Mexico basin), Part 7 (Lower Mississippi River basin) and Part 8 (Western Gulf of Mexico basin).

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 1, following. In Louisiana, wells are further identified by a local well number that consists of a letter code that identifies the parish (county) in which the well is located, followed by a serial number assigned when the well was inventoried.

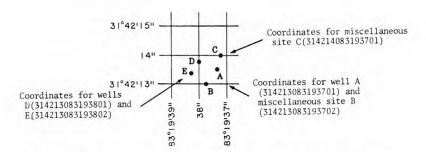


Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude)

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data-collection network designated by the U.S. Geological Survey to meet many of the demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

<u>Tritium network</u> is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge for streams or canals; and stage, surface area, and contents for lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph or a tape punched at selected time intervals of the stage fluctuations. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard text-books, in Water-Supply Paper 888, and in the U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

For a reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations, there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily mean discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily mean discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River milage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which the figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revisions, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of report.

The type of gage currently in use, the datum of the present gage referred to National Geodetic Vertical Datum, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE". National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS."

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow at the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than five complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with "EXTREMES FOR THE CURRENT YEAR"; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MEAN" gives the maximum and minimum daily mean discharges, respectively, for the month. Discharge for the month also may by expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 in. In the yearly summary below the monthly summary, the figures shown are the discharges for the calendar and water years.

Footnotes to the table of daily mean discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs, a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in three tables. The first is a table of annual maximum stage and discharge at crest-stage stations, the second is a table of discharge measurements at miscellaneous sites, and the third is a table of peak elevations at flood-profile partial-record stations.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily mean discharges are within 5 percent; "good", within 10 percent; and "fair" within 15 percent. "Poor" means that daily mean discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effect of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also, most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Records of Discharge Collected by Agencies other than the Geological Survey

Records of discharge not published by the Geological Survey were collected during the water year at sites in Louisiana by the Corps of Engineers, U.S. Army. The National Water Data Exchange, Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintains an index of such sites. Information on records available at specific sites can be obtained upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives periods of record for the various types of water-quality data (chemical, specific conductance, water temperatures, sediment discharge), extremes of pertinent data, and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling, and geologic unit (aquifer) are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey Techniques of Water-Resources Investigations" listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of alkalinity in the laboratory.

For chemical-quality stations equiped with digital recorders and monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharge.

At stations where recording instruments are used, either mean temperatures or maximum and minimim temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers or point samplers. Samples usually are obtained along several vertical lines in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements for the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER-LEVEL RECORDS

Collection of the Data

Ground-water-level data from the State network of observation wells are published herein. This basic network contains observation wells so located that significant areal data are obtained from the most important aquifers.

Each well is identified by (1) a 15-digit number that is based on latitude and longitude and (2) a local well number that identifies the well within an individual parish (county). See figure 1.

Measurements are made in many types of wells, under varying conditions of access, depth to water, temperature; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet with reference to land-surface datum (LSD). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above National Geodetic Vertical Datum of 1929 (NGVD) is given in the well description. Altitudes with zeros in the tenths and hundredths columns are interpolated from topographic maps and are generally accurate only to about 1-5 feet. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equiped with recording gages are reported for every fifth day, the end of each month, and for dates when check measurements were made.

Water levels are reported to as many signifigant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or to the nearest foot. In the computer format used in this report, zeros shown in the hundredths column generally indicate measurements accurate only to tenths.

Thirty-four manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

- 1-D1.
- Water temperature--influential factors, field measurement, and data presentation, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages. Guidelines for collection and field analysis of ground-water samples for selected unstable constituents, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages. Application of surface geophysics to ground-water investigations, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. 1-D2.
- 2-D1.
- 2-E1.
- Application of borehole geophysics to water-resources investigations, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter El. 1971. 126 pages.

- 2-El. Application of borehole geophysics to water-resources investigations, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter El. 1971. 126 pages.

 3-Al. General field and office procedures for indirect discharge measurements, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter Al. 1967. 30 pages.

 3-Al. Measurement of peak discharge by the slope-area method, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter Al. 1967. 12 pages.

 3-Al. Measurement of peak discharge at culverts by indirect methods, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter Al. 1968. 60 pages.

 3-Al. Measurement of peak discharge at width contractions by indirect methods, by H. F. Matthai: USGS--TWRI Book 3, Chapter Al. 1967. 44 pages.

 3-Al. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS--TWRI Book 3, Chapter Al. 1967. 29 pages.

 3-Al. General procedure for gaging streams, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter Al. 1968. 13 pages.

 3-Al. Stage measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter Al. 1968. 28 pages.

 3-Al. Measurement of discharge by moving-boat method, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter All. 1969. 65 pages.

 3-All. Measurement of discharge by moving-boat method, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter All. 1969. 22 pages.

 3-Bl. Aquifer-test design, observation, and data analysis, by R. W. Stallman: USGS--TWRI Book 3, Chapter Bl. 1971. 26 pages.

 3-Bl. Introduction to ground-water hydraulics, a programed text for self-instruction, by G. D. Bennett USGS--TWBI Book 3, Chapter R2, 1976, 172 pages.
- Introduction to ground-water hydraulics, a programed text for self-instruction, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

 Fluvial sediment concepts, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

 Field methods for measurement of fluvial sediment, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages. 3-C2.
- Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

 Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 3-C3.
- 4-A1. 39 pages.
- Frequency curves, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

 Low-flow investigations, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

 Storage analyses for water supply, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4,

 Chapter B2. 1973. 20 pages.

 Regional analyses of streamflow characteristics, by H. C. Riggs: USGS--TWRI Book 4, 4-B1. 4-B2.
- 4-B3.
- 4-D1.

- 5-A3.
- Chapter B3. 1973. 15 pages.

 Computation of rate and volume of stream depletion by wells, by C. T. Jenkins: USGS-TWRI Book 4, Chapter D1. 1970. 17 pages.

 Methods for determination of inorganic substances in water and fluvial sediments, by M. W. Skougstad and others, editors: USGS-TWRI Book 5, Chapter A1. 1979. 626 pages.

 Determination of minor elements in water by emission spectroscopy, by P. R. Barnett and E. C. Mallory, Jr.: USGS-TWRI Book 5, Chapter A2. 1971. 31 pages.

 Methods for analysis of organic substances in water, by D. F. Goerlitz and Eugene Brown: USGS-TWRI Book 5, Chapter A3. 1972. 40 pages.

 Methods for collection and analysis of aquatic biological and microbiological samples, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS-TWRI Book 5, Chapter A4. 1977. 332 pages.

 Methods for determination of radioactive substances in water and fluvial sediments, by L. L. Thatcher, V. J. Janzer, and K. W. Edwaris: USGS-TWRI Book 5, Chapter A5. 1977. 95 pages.

 Laboratory theory and methods for sediment analysis. by H. P. Guy: USGS-TWRI Book 5
- Laboratory theory and methods for sediment analysis, by H. P. Guy: USGS--TWRI Book 5, Chapter Cl. 1969. 58 pages.
- Chapter C1. 1969. 58 pages.

 7-C1. Finite difference model for aquifer simulation in two dimensions with results of numerical experiments, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

 7-C2. Computer model of two-dimensional solute transport and dispersion in ground water, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

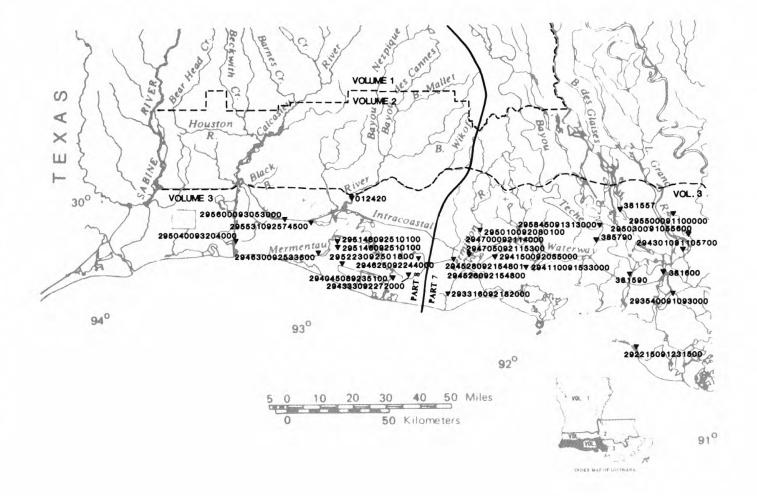
 8-Al. Methods of measuring water levels in deep wells, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter Al. 1968. 23 pages.

 8-B2. Calibration and maintenance of vertical-axis type current meters, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

MEXICO

Figure 2.--Location of continuous gaging stations.

WATER RESOURCES DATA FOR LOUISIANA, 1981



MISSISSIPPI RIVER MAIN STEM

07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA

LOCATION.--Lat 29°57'03", long 90°08'17", Jefferson-Orleans Parish line, Hydrologic Unit 08090100, at Carrollton Street Municipal Water Plant intakes and at mile 103.8 (167.0 km).

DRAINAGE AREA.--1,129,900 \min^2 (2,926,400 km²), arbitrarily determined.

PERIOD OF RECORD. -- Water years 1905-06, 1951-52, 1954-55, 1967 to current year.

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: August 1954 to September 1955, October 1968 to current year. pH: October 1976 to current year.
WATER TEMPERATURES: August 1954 to September 1955, November 1970 to current year.

DISSOLVED OXYGEN: October 1968 to current year.

INSTRUMENTATION .- - Water-quality monitor since October 1968.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 630 micromhos Sept. 20, 1969; minimum, 200 micromhos May 1, 1975. pH: Maximum, 7.9 units on several days during fall and winter 1976 and 1979, Oct. 1, 1980; minimum, 6.8 units Apr. 9, May 1-5, 1980. WATER TEMPERATURES: Maximum, 52.5°C July 14-22, 1980; minimum, 1.5°C Feb. 6-14, 1978.

DISSOLVED OXYGEN: Maximum, 13.9 mg/L Feb. 23, 24, 1976; minimum, 3.8 mg/L July 23, Aug. 1, 1969, Aug. 26,

1977.

EXTREMES FOR CURRENT YEAR . - -

SPECIFIC CONDUCTANCE: Maximum, 580 micromhos Jan. 30; minimum, 322 micromhos June 19-21. pH: Maximum, 7.7 units July 31, Aug. 1, 4, 25-31, Sept. 1-8; minimum, 7.0 units May 8, 31, June 1-15. WATER TEMPERATURES: Maximum, 31.5°C July 29-31; minimum, 5.0°C Jan. 22-24, Feb. 19. DISSOLVED OXYGEN: Maximum, 12.3 mg/L Jan. 22, 23; minimum, 5.3 mg/L July 5, 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

		CIFIC CON-			CC	LOR				OXYGEN		
		DUCT-		TEMP		LAT-	TUR	- OXY	GEN.	BIOCHE		
		ANCE	PH	ATU	RE. IN	MUI	BID	- D	15-	UNINHI	Н	
100	TIME	(WICHO-	FIELD	WAT		BALT	ITY		LVED	5 DAY		
DATE		MHUS)	(UNITS)	(DEG	C) UN	ITS)	(NTI) (M	G/L)	(MG/L)		
NOV												
06	0845	483	7.1	1	7.0	5	20		8.5		0	
JAN		611										
14	0845	511	7.2		6.5	5	8.	0	11.6	3.	6	
20	1245	403	7.1	2	1.5	5	15		8.1	4.	3	
JUL	1200	222			7.0	10				2		
10	1200	323		2	7.5	10	160		5.8	2.	6	
	STORE											
	STREP- TOCOCCI		HARD-		MA	GNE-		Po	TAS-			
	FECAL,	HARD-	NESS.	CALC		IUM,	SUDIU		IUM,	ALKA-	S	ULFATE
	KF AGAR	NESS	MUNCAR-	015		IS-	DIS-		15-	LINITY		DIS-
	(COLS.	(MG/L	BUNATE			LVED	SOLVE		LVED	(MG/L		SOLVED
to dela	PER	ΛS	(MG/L	(MG		G/L	(MG/		G/L	AS		(MG/L
DATE	100 ML)	CACO3)	CACO3)	AS	CA) AS	MG)	AS N	A) A5	K)	CAC03) A	5 5041
NOV												
06	840	160	40	4	1	14	32		4.1	12	0	73
JAN	760	190	60	5	,	16	2.0		1.5			
14	760	190	60	5	1	16	33		3.5	13	3	72
20	K23000	140	54	3	9	11	24		3.1	8	9	66
10	1600	130	39	3	6	10	15		3.6	9	2	52
	4.000	130							3.0		_	52
					SOLIDS,	SOL	IDS,		NIT	RO-		
				ICA.	RESIDUE		OF	NITRO-	GEN	. AM-		
				15-	AT 180		511-	GEN.			PHOS	
				OLVED 4G/L	DEG. C		NTS.	TOTAL			TOTA	
				AS	SOLVED		LVED	(MG/L			(MG/	
0				102)	(MG/L)		G/L)	A5 N)			AS P	
NO		30	c	F 0	202		272	0.0				r
JA	6 N	50	•5	5.9	282		272	.88		1.0	. 2	5
	4	20	• 6	7.1	321		291	1.6		1.2	• 1	3
	0	24	.4	3.8	257		224	1.1		.84	. 2	1
		19	.2	6.3	201		197	2.0		2.0	. 4	2

K Results based on colony count outside the acceptable range (non-ideal count).

MISSISSIPPI RIVER MAIN STEM

07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BARIUM, MECOV. FM BOT- TOM MA- TERIAL (UG/G AS RA)	CADMIUM DIS- SOLVED (UG/L AS CO)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER. DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM HOT- TOM MA- TERIAL (UG/G AS CU)	IRUN+ DIS- SOLVED (UG/L AS FE)
NOV 06	1	10	100	8	1	1	6	0	5	10	30
DATE	IRON. RECOV. FM ROT- TOM MA- IERIAL (UG/G AS FE)	LEAD. DIS- SOLVED (UG/L AS PR)	LFAU, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE • DIS- SOLVED (UG/L AS MN)	MANGA- NESE+ RECOV. FM BOI- TOM MA- TERIAL (UG/G)	MERCURY TOTAL (UG/L AS HG)	MERCURY RECOV. FM ROT- TOM MA- TERTAL (UG/G AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC+ RECOV. FM ROT- TOM MA- TERIAL (UG/G AS ZN)	CARBON+ ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)
NOV 06	5200	3	50	0	410	• 0	.04	10	34	5.2	• 0 0
DATE	PHENOLS	PCR TOTAL (UG/L)	PCH+ TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES. POLY- CHLOR. TOTAL (UG/L)	PCN+ TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN. TOTAL (UG/L)	ALDRIN+ TOTAL IN ROT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD. TOTAL (UG/L)	DDD+ TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 06	2	<.1	11	<.1	<1	<.01	-<.1	<.1	2	<.01	3.1
DATE	DDE: 1014L (UG/L)	DOE + TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	nor.	DOT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	AZINON,	OI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ELDRIN	DI- ELDRIN, TOTAL IN ROT- TOM MA- TERIAL (UG/KG)	ENDU- SULFAN. TOTAL (UG/L)	ENDO- SULFAN. TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN. TOTAL (UG/L)
NOV 06		<.1	<.01	1.1	<.01	<.1	<.01	.4	<.01	<.1	<.01
DATE	ENDRIN. TOTAL IN BOT- TOM MA- TERTAL (UG/KG)	ETHION. TOTAL (UG/L)	TERTAL		TOM MA-	HEPTA- CHLOR EPOXIDE	TOT. IN ROTTOM MATL.	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION.	MALA- THION. TOTAL IN BOT- TOM MA- TEKIAL (UG/KG)
NOV 06	<.1	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1
	C	DETH- COXY- TO	OT. IN F BOTTOM T MATL. I	METHYL TO THION, E	OT. IN BOTTOM I MATL. I	TRI- TO HION, FOTAL	MATL.	IN IREX, TO TOTAL T	M MA- T	TARA- IN HION. TO OTAL I	ARA- HION. OTAL BOT- M MA- ERIAL G/KG)
	06	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1
	DATE	PER- HANE HI	ATERIL JG/KG)	TOX- IN TOX- IN TOTAL (UG/L) (U	DM MA- TERIAL DG/KG)	TOTAL IN THI- TO THION (UG/L) (O	TERIAL T JG/KG) (OTAL T	OTAL I	OTAL T	LVEX. OTAL UG/L)
	06	<.01	<.10	< . 1	< 1	<.01	<.1	.00	• 00	• 00	• 0 0

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER MAIN STEM

07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA--Continued

SPECIFIC CONDUCTANCE (MICHOMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	14 A X	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
		TOBER		MBER		MBER		NUARY		UARY		ARCH
	OC.	Onen	11011	J. DEK	DECL		OA	· OAN	r E Dr	ОДКТ	1112	ANCH
1									572	563	416	407
3									573	563	421	409
4									578 578	567 567	420 415	413
5									569	562	416	410
6									564	546	409	395
7									558	547	401	394
8									556	539	400	388
10									543 531	533 510	395 411	388 394
, ,												
11									495	492	415	408
13									495	469		
14									473	468		
15									474	467		
16									568	460		
17					487	479			567	479		
18					503	486			478	434		
19					517	503			431	417		
50					521	505			434	424		
21					507	493			434	426		
55					490	478	573	554	440	431		
23					481	463	554	547	447	437		
25					460 470	452	565	550	451	442		
23					470	449	555	551	453	444		
26					459	453	561	549	448	430		
27					452	444	552	548	430	411		
28					441 425	426 420	578 575	550 568	410	399		
30					421	413	580	570				
31					412	399	577	562				
MUNIH									578	399	141	
	ΔF	PHIL.	N	AY	JU	INE	Ju	JLY	AUG	UST	SEPT	TEMBER
1	AP	 PHIL	444	434	384	353	364	358	427	420	451	445
2				434 426		353 345	364 366				451 452	
	===		444 434	434	384 352	353	364	358 361	427	420	451	445 446
3			444 434 432	434 426 426	384 352 348	353 345 343	364 366 372	358 361 365	427	420	451 452 452	445 446 446
3 4	===	===	444 434 432 426 411	434 426 426 410 406	384 352 348 351 354	353 345 343 346 347	364 366 372 364 362	358 361 365 344	427 427 418	420 419 391	451 452 452 458 456	445 446 446 446 454
3			444 434 432 426	434 426 426 410	384 352 348 351	353 345 343 346	364 366 372 364	358 361 365 344 340	427 427	420 419	451 452 452 458	445 446 446 446
2 3 4 5 6 7 8	===	===	444 434 432 426 411 410 410	434 426 426 410 406 403 405 385	384 352 348 351 354 355 351 345	353 345 343 346 347 350 345 341	364 366 372 364 362 359 344 335	358 361 365 344 340 340 336 331	427 427 418 390 399 401	420 419 391 380 379 390	451 452 452 458 456 458 472 484	445 446 446 454 452 456 471
2 3 4 5 6 7 8 9	===	===	444 434 432 426 411 410 407 411	434 426 426 410 406 403 405 385 404	384 352 348 351 354 355 351 345 347	353 345 343 346 347 350 345 341 341	364 366 372 364 362 359 344 335 341	358 361 365 344 340 340 336 331 331	427 427 418 390 399 401 389	420 419 391 380 379 390 380	451 452 452 458 456 458 472 484 486	445 446 446 446 454 452 456 471 478
2 3 4 5 6 7 8			444 434 432 426 411 410 410	434 426 426 410 406 403 405 385	384 352 348 351 354 355 351 345	353 345 343 346 347 350 345 341	364 366 372 364 362 359 344 335	358 361 365 344 340 340 336 331	427 427 418 390 399 401	420 419 391 380 379 390	451 452 452 458 456 458 472 484	445 446 446 454 452 456 471
2 3 4 5 6 7 8 9 10	===	===	444 434 432 426 411 410 410 407 411 404	434 426 426 410 406 403 405 3365 404 400	384 352 348 351 354 355 351 345 347 355	353 345 343 346 347 350 345 341 341	364 366 372 364 362 359 344 335 341 349	358 361 365 344 340 340 336 331 331	427 427 418 390 399 401 389	420 419 391 380 379 390 380	451 452 452 458 456 456 458 472 484 486 489	445 446 446 454 452 456 471 478 478
2 3 4 5 6 7 8 9 10			444 434 432 426 411 410 410 407 411 404	434 426 426 410 406 403 405 385 404 400	384 352 348 351 354 355 351 345 347 355	353 345 343 346 347 350 345 341 341 345	364 366 372 364 362 359 344 335 341 349	358 361 365 344 340 340 336 331 334 342	427 427 418 390 399 401 389 379 378 357	420 419 391 380 379 380 370 356 350	451 452 458 458 456 458 472 484 486 489	445 446 446 454 452 456 471 478 478 470
2 3 4 5 6 7 8 9 10 11 12 13			444 434 432 426 411 410 410 407 411 404 399 393 401	434 426 426 410 406 403 405 385 404 400 393 389 393	384 352 348 351 354 355 351 345 347 355 357 352 346	353 345 343 346 347 350 345 341 345 351 345 338	364 366 372 364 362 359 344 335 341 349 355 360	358 361 365 344 340 336 331 334 342 347 354	427 427 418 390 399 401 389 379 378 357 354	420 419 391 380 379 390 380 370 356 350 337	451 452 452 458 456 458 472 484 486 489 484 474 471	445 446 446 454 452 456 471 478 478 470 465 464
2 3 4 5 6 7 8 9 10 11 12 13 14			444 434 432 426 411 410 410 407 411 404 399 393 401 402	434 426 426 410 406 403 405 385 404 400 393 389 393 397	384 352 348 351 354 355 351 345 347 355 357 357 352 346 337	353 345 343 346 347 350 345 341 341 345 351 345 338 328	364 366 372 364 362 359 344 335 341 349 355 359 360 366	358 361 365 344 340 340 336 331 334 342 347 354 355 358	427 427 418 390 399 401 389 379 378 357 354 357	420 419 391 380 379 390 380 370 356 350 337 338	451 452 458 458 456 458 472 484 486 489	445 446 446 454 452 456 471 478 478 470 465 474
2 3 4 5 6 7 8 9 10 11 12 13 14 15			444 434 432 426 411 410 407 411 404 399 393 401 402 416	434 426 426 410 406 403 405 385 404 400 393 389 393 397 403	384 352 348 351 354 355 351 345 347 355 357 352 346 337 329	353 345 343 346 347 350 345 341 341 345 351 345 338 328 325	364 366 372 364 362 359 344 335 341 349 355 360 366 369	358 361 365 344 340 340 336 331 334 342 347 354 355 358 363	427 427 418 390 399 401 389 379 378 357 354 357 356	420 419 391 380 379 380 370 356 350 337 338 352	451 452 458 456 458 472 484 486 489 484 471 491 495	445 446 446 454 452 456 471 478 478 465 464 474 481
2 3 4 5 6 7 8 9 10 11 12 13 14 15			444 434 432 426 411 410 410 407 411 404 399 393 401 402 416	434 426 426 410 406 403 405 385 404 400 393 389 393 397 403	384 352 348 351 354 355 351 345 347 355 357 352 346 337 329	353 345 343 346 347 350 345 341 341 345 351 345 338 328 325	364 366 372 364 362 359 344 335 341 349 355 360 366 369	358 361 365 344 340 336 331 334 342 347 354 355 358 363	427 427 418 390 399 401 389 379 378 357 354 357 356	420 419 391 380 379 390 380 370 356 350 337 338 352	451 452 452 458 456 458 472 484 486 489 484 471 491 495	445 446 446 454 452 456 471 478 478 470 465 464 474 481
2 3 4 5 6 7 8 9 10 11 12 13 14 15			444 434 432 426 411 410 410 407 411 404 399 393 401 402 416	434 426 426 410 406 403 405 385 404 400 393 389 397 403	384 352 348 351 354 355 351 347 355 357 352 346 337 329	353 345 343 346 347 350 345 341 341 345 351 345 328 328 325 333	364 366 372 364 362 359 344 335 341 349 355 360 366 369	358 361 365 344 340 336 331 334 342 347 354 355 358 363	427 427 418 390 399 401 389 379 378 357 357 356 360 369	420 419 391 380 379 380 370 356 350 337 338 352	451 452 452 458 456 456 458 472 484 486 489 484 474 471 494 495	445 446 446 454 452 456 471 478 478 470 465 464 474 481
2 3 4 5 6 7 8 9 10 11 12 13 14 15			444 434 432 426 411 410 410 407 411 404 399 393 401 402 416	434 426 426 410 406 403 405 385 404 400 393 389 393 397 403	384 352 348 351 354 355 351 345 347 355 357 352 346 337 329	353 345 343 346 347 350 345 341 341 345 351 345 338 328 325	364 366 372 364 362 359 344 335 341 349 355 360 366 369	358 361 365 344 340 336 331 334 342 347 354 355 358 363	427 427 418 390 399 401 389 379 378 357 354 357 356	420 419 391 380 379 390 380 370 356 350 337 338 352	451 452 452 458 456 458 472 484 486 489 484 471 491 495	445 446 446 454 452 456 471 478 478 470 465 464 474 481
2 3 4 5 6 7 8 9 10 11 12 13 14 15			444 434 432 426 411 410 410 407 411 404 399 393 401 402 416 426 427 444	434 426 426 410 406 403 405 395 404 400 393 389 393 397 403	384 352 348 351 354 355 351 345 347 355 346 347 355 346 337 329	353 345 343 346 347 350 345 341 341 345 345 338 328 328 325 325 333 329	364 366 372 364 362 359 344 335 341 349 355 359 360 366 369	358 361 365 344 340 340 336 331 334 342 347 354 355 368 369 361	427 427 418 390 399 401 389 379 378 357 354 357 366 369 369	420 419 391 380 379 380 370 356 350 337 358 352 349 359 360	451 452 452 458 456 458 472 484 486 489 484 471 491 495	445 446 446 454 452 456 471 478 478 470 465 464 474 481 474
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20			444 434 432 426 411 410 410 407 411 404 399 393 401 402 416 427 444 440 430	434 426 426 410 406 403 405 395 404 400 393 389 393 397 403 414 420 427 431 426	384 352 348 351 354 355 351 345 347 355 346 337 329 334 336 338 330 325	353 345 343 346 347 350 345 341 345 345 338 328 328 325 323 329 322 322	364 366 372 364 362 359 344 335 341 349 355 359 360 366 369	358 361 365 344 340 336 331 334 342 347 354 355 358 363 369 381	427 427 418 390 399 401 389 379 378 357 354 357 366 369 364 365 374	420 419 391 380 379 380 370 356 350 337 349 359 360 357 360	451 452 452 458 456 456 458 472 484 486 489 484 471 495 488 487 486 471 466	445 446 446 454 452 456 471 478 478 470 465 464 474 481 472 459 452
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21			444 434 432 426 411 410 410 407 411 404 399 393 401 402 416 427 444 440 430	434 426 426 410 406 403 405 385 404 400 393 389 397 403 414 420 427 431 426	384 352 348 351 354 355 351 345 347 355 347 355 346 337 329 334 336 338 330 325	353 345 343 346 347 350 345 341 341 345 351 345 338 328 325 325 322 322 322	364 366 372 364 362 359 344 335 341 349 355 359 360 366 369	358 361 365 344 340 336 331 334 342 347 354 355 368 363	427 427 418 390 399 401 389 379 357 354 357 356 360 369 364 365 374	420 419 391 380 379 380 370 356 350 337 338 352 349 359 360 357	451 452 452 458 456 458 472 484 486 489 484 471 495 488 487 488 487	445 446 446 454 452 456 471 478 478 465 464 474 481 474 481 472 459 452
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20			444 434 432 426 411 410 410 407 411 404 399 393 401 402 416 427 444 440 430	434 426 426 410 406 403 405 395 404 400 393 389 393 397 403 414 420 427 431 426	384 352 348 351 354 355 351 345 347 355 346 337 329 334 336 338 330 325	353 345 343 346 347 350 345 341 345 345 338 328 328 325 323 329 322 322	364 366 372 364 362 359 344 335 341 349 355 360 366 369 382 391	358 361 365 344 340 336 331 334 342 347 354 355 358 363 369 381	427 427 418 390 399 401 389 379 378 357 354 357 366 369 364 365 374	420 419 391 380 379 380 370 356 350 337 338 352 349 359 360 357 360	451 452 452 458 456 458 472 484 486 489 484 471 495 488 487 486 471 466	445 446 446 454 452 456 471 478 478 470 465 464 474 481 472 459 452
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24			444 434 432 426 411 410 410 407 411 404 399 393 401 402 416 427 444 440 430	434 426 426 410 406 403 405 395 404 400 393 389 393 397 403 414 420 427 431 426 424 425 431 437	384 352 348 351 354 355 351 345 347 355 346 337 329 334 338 330 325 325 329 333 333 335	353 345 343 346 347 350 345 341 341 345 341 345 328 328 328 329 322 322 322 322 323 333	364 366 372 364 362 359 344 335 341 349 355 359 360 366 369	358 361 365 344 340 336 331 334 342 347 354 355 368 369 381	427 427 418 390 399 401 389 379 357 354 357 364 369 364 365 374 407 422 435	420 419 391 380 379 380 370 356 357 359 360 357 360 374 404 419 435	451 452 452 458 456 458 472 484 486 489 484 471 495 488 487 486 471 466 463 466 471 469	445 446 446 454 452 456 471 478 478 470 465 464 474 481 472 459 452 456 453 460 458
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23			444 434 432 426 411 410 410 407 411 404 399 393 401 402 416 427 444 440 430 428 431 442	434 426 426 410 406 403 405 395 404 400 393 389 393 397 403 414 420 427 431 426 424 425 431	384 352 348 351 354 355 351 345 347 355 357 352 346 337 329 334 336 338 330 325	353 345 343 346 347 350 345 341 341 345 351 345 328 328 329 322 322 322 322 323 327	364 366 372 364 362 359 344 335 341 349 355 360 366 369 382	358 361 365 344 340 340 336 331 334 342 347 354 355 358 363 369 381	427 427 418 390 399 401 389 379 378 357 354 357 356 360 369 364 365 374	420 419 391 380 379 380 370 356 350 337 338 352 349 359 360 357 360	451 452 452 458 456 458 472 484 486 489 484 471 495 488 471 494 495	445 446 446 454 452 456 471 478 478 470 465 464 474 481 472 459 452 456 453 460
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26			444 434 432 426 411 410 410 407 411 404 399 393 401 402 416 427 444 440 430 428 431 442 447 457	434 426 426 410 406 403 405 395 404 400 393 389 393 397 403 414 420 427 431 426 424 425 431 437 436	384 352 348 351 354 355 351 345 347 355 346 337 329 334 336 338 330 325 325 326 329 333 335 332	353 345 343 346 347 350 345 341 341 345 338 328 328 329 322 322 322 322 322 322 323 330 330	364 366 372 364 362 359 344 335 341 349 355 359 360 366 369	358 361 365 344 340 340 336 331 334 342 347 354 355 358 363 369 381	427 427 418 390 399 401 389 379 357 354 357 356 360 369 364 365 374 407 422 435 456 475	420 419 391 380 379 380 370 356 350 337 358 352 349 359 360 367 360 374 404 419 435 457	451 452 452 458 456 456 458 472 484 486 489 484 471 495 488 471 466 463 466 471 469 469	445 446 446 454 452 456 471 478 478 470 465 464 474 481 472 459 452 456 453 460 458 465
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27			444 434 432 426 411 410 407 411 404 399 393 401 402 416 426 427 444 440 430 431 442 447 457	434 426 426 410 406 403 405 385 404 400 393 389 397 403 414 420 427 431 426 425 431 437 436	384 352 348 351 354 355 351 345 347 355 346 337 352 346 337 329 334 338 330 325 325 329 333 335 335 332	353 345 343 346 347 350 345 341 341 345 328 325 325 325 322 322 322 322 323 330 330	364 366 372 364 362 359 344 335 341 349 355 360 366 369 382 391	358 361 365 344 340 340 336 331 334 342 347 354 355 358 363 369 381	427 427 418 390 399 401 389 379 357 354 357 364 365 364 365 374 407 422 435 456 475	420 419 391 380 379 380 370 356 350 337 338 352 349 359 360 357 360 374 404 419 435 457	451 452 452 458 456 458 472 484 486 489 484 471 495 488 487 486 471 466 463 466 471 469 469	445 446 446 454 456 471 478 478 479 465 464 474 481 479 459 453 460 458 465 465
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28			444 434 432 426 411 410 410 407 411 404 399 393 401 402 416 427 444 430 431 442 447 457	434 426 426 410 406 403 405 385 404 400 393 389 393 397 403 414 420 427 431 426 425 431 436	384 352 348 351 351 354 355 345 347 355 346 337 329 334 336 338 330 325 329 333 335 339 339 347	353 345 343 346 347 350 345 341 341 345 351 345 328 328 329 322 322 323 327 330 330 331 338 338 339	364 366 372 364 362 359 344 335 341 349 355 359 366 369 382 391	358 361 365 344 340 340 336 331 334 342 347 354 355 358 363 369 381 383	427 	420 419 391 380 379 390 380 370 356 350 337 338 352 349 359 360 374 404 419 435 457	451 452 452 458 456 458 472 484 486 489 484 474 471 494 495 488 487 494 495 466 471 466 471 466 471 469 473 480 479	445 446 446 454 452 456 471 478 478 470 465 464 474 481 472 459 452 456 453 460 458 460 458 465 467 476
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	 	 433 431 435 440 445	444 434 432 426 411 410 410 407 411 404 399 393 401 402 416 427 444 440 430 428 431 442 447 457	434 426 426 410 406 403 405 395 404 400 393 389 393 397 403 414 420 427 431 426 424 425 431 436	384 352 348 351 354 355 351 345 347 355 357 352 346 337 329 334 336 338 330 325 329 333 335 329	353 345 343 346 347 350 345 341 341 345 351 345 328 328 329 322 322 322 322 323 327 330 330 331 338 338 339	364 366 372 364 362 359 344 335 341 349 355 360 366 369 382 391	358 361 365 344 340 340 336 331 334 342 347 354 355 358 363 369 381 383 378	427 427 418 390 399 401 389 379 378 357 356 364 365 374 407 422 435 456 475	420 419 391 380 379 380 370 356 350 337 338 352 349 359 360 357 360 374 404 419 435 457	451 452 452 458 456 458 472 484 486 489 484 471 494 495 488 471 466 463 466 471 469 469 473 480 479 481	445 446 446 454 452 456 471 478 478 478 478 479 465 464 477 481 472 459 452 456 453 460 458 465 460 476 476 477
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30			444 434 432 426 411 410 407 411 404 399 393 401 402 416 427 444 440 430 428 431 442 447 457 463 459 437 435	434 426 426 410 406 403 405 395 404 400 393 389 393 397 403 414 420 427 431 426 425 431 437 436 455 430 425 428 426	384 352 348 351 354 355 351 345 347 355 346 337 329 334 338 330 325 325 329 333 335 332 340 333 335 332 347 347 347 347 347 347 347 347 347 347	353 345 343 346 347 350 345 341 341 345 341 345 328 328 328 329 322 322 322 322 323 330 330 331 338 338 338 348 348	364 366 372 364 362 359 344 335 341 349 355 366 369 382 391 	358 361 365 344 340 340 340 336 331 334 342 347 354 355 358 363 369 381 383 378 399	427 427 418 390 399 401 389 379 357 354 357 356 360 369 364 365 374 407 422 435 456 475	420 419 391 380 379 380 370 356 357 359 360 357 360 374 404 419 435 457	451 452 452 458 456 458 472 484 486 489 484 471 495 488 487 486 471 466 463 466 471 469 469 479 480 479 481 484	445 446 446 454 452 456 471 478 478 470 465 464 474 481 472 459 452 456 453 465 464 476 476 476 477 479
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	 	 433 431 435 440 445	444 434 432 426 411 410 410 407 411 404 399 393 401 402 416 427 444 440 430 428 431 442 447 457	434 426 426 410 406 403 405 395 404 400 393 389 393 397 403 414 420 427 431 426 424 425 431 436	384 352 348 351 354 355 351 345 347 355 357 352 346 337 329 334 336 338 330 325 329 333 335 329	353 345 343 346 347 350 345 341 341 345 351 345 328 328 329 322 322 322 322 323 327 330 330 331 338 338 339	364 366 372 364 362 359 344 335 341 349 355 360 366 369 382 391	358 361 365 344 340 340 336 331 334 342 347 354 355 358 363 369 381 383 378	427 427 418 390 399 401 389 379 378 357 356 364 365 374 407 422 435 456 475	420 419 391 380 379 380 370 356 350 337 338 352 349 359 360 357 360 374 404 419 435 457	451 452 452 458 456 458 472 484 486 489 484 471 494 495 488 471 466 463 466 471 469 469 473 480 479 481	445 446 446 454 452 456 471 478 478 478 478 479 465 464 477 481 472 459 452 456 453 460 458 465 460 476 476 477

MISSISSIPPI RIVER MAIN STEM

07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	мах	MIN	мдх	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	ост	ORER	NOVE	MBER	DECE	MBER	JAN	IUARY	FEBR	UARY	МА	RCH
1 2 3 4 5	7.3 7.3 7.4	7.2 7.3 7.3	7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.2 7.3 7.3	7.2 7.2 7.2 7.2 7.2 7.3	7.2 7.2 7.2 7.2 7.2	7.3 7.3 7.3 7.2 7.2	7.3 7.3 7.2 7.2 7.2	7.4 7.4 7.4 7.4	7.4 7.3 7.4 7.4	7.4 7.4 7.4 7.4 7.4	7.3 7.3 7.3 7.3 7.3
6 7 8 9	7.4 7.4 7.4 7.4 7.3	7.4 7.4 7.3 7.3 7.2	7.3	7.3	7.4 7.4 7.4 7.4	7.3 7.3 7.2 7.4 7.3	7.2 7.3 7.3 7.3 7.3	7.2 7.2 7.2 7.2 7.2 7.2	7.4 7.4 7.4 7.4 7.4	7.4 7.4 7.4 7.4 7.4	7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.2 7.2 7.2
11 12 13 14 15	7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3	7.2 7.3 7.3	7.4 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.2 7.3	7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.5	7.3 7.5 7.5 7.5	7.3 7.3	7.2
16 17 18 19 20	7.3 7.4 7.4 7.4 7.4	7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3	7.5 7.5 7.5 7.4 7.4	7.4 7.4 7.4 7.4 7.3	=======================================	===
21 22 23 24 25	7.4 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3	7.3 7.4 7.4 7.4 7.4	7.3 7.3 7.3 7.3 7.3	7.4 7.4 7.4 7.4 7.4	7.4 7.4 7.4 7.3 7.4	==	===
26 27 28 29 30 31	7.3 7.3 7.3 7.3 7.3 7.3	7.3 7.2 7.2 7.3 7.3 7.3	7.3 7.4 7.3 7.3 7.3	7.3 7.2 7.2 7.3 7.2	7.4 7.4 7.4 7.4 7.4 7.3	7.3 7.4 7.4 7.4 7.3 7.3	7.3 7.4 7.4 7.4 7.3 7.4	7.3 7.3 7.3 7.3 7.3 7.3	7.4 7.4 7.4	7.3 7.4 7.4		=======================================
MONTH	7.4	7.2	7.4	7.2	7.4	7.2	7.4	7.2	7.5	7.3		
	AP	RIL	М	AY	JU	INE	JU	JLY	AUG	UST	SEPT	EMBER
1 2 3 4 5	===	===	7.1 7.1 7.1 7.1 7.1	7 · 1 7 · 1 7 · 1 7 · 1 7 · 1	7.0 7.1 7.0 7.0 7.0	7.0 7.0 7.0 7.0 7.0	7.5 7.5 7.5 7.5 7.5	7 • 4 7 • 4 7 • 4 7 • 4 7 • 4	7.7 7.7 7.6	7.6 7.6 7.6	7.7 7.7 7.7 7.7 7.7	7.7 7.7 7.6 7.7 7.7
6 7 8 9	===	===	7.1 7.1 7.1 7.1 7.1	7.1 7.1 7.0 7.1 7.1	7.0 7.0 7.0 7.0 7.0	7.0 7.0 7.0 7.0 7.0	7.5 7.4 7.4 7.5 7.5	7.4 7.4 7.4 7.4 7.5	7.6 7.6 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5	7.7 7.7 7.7 7.5 7.5	7.7 7.6 7.5 7.4 7.5
11 12 13 14 15		==	7.1 7.2 7.2 7.2 7.2	7.1 7.1 7.2 7.2 7.2	7.0 7.0 7.0 7.0 7.0	7.0 7.0 7.0 7.0 7.0	7.5 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.4 7.4	7.5 7.5 7.5 7.4 7.5	7.4 7.4 7.4 7.4 7.4	7.4 7.4 7.4 7.4 7.4	7.4 7.4 7.4 7.4 7.4
16 17 18 19 20	===	===	7.2 7.3 7.3 7.3 7.3	7.2 7.2 7.3 7.3 7.3	7.4 7.4 7.4 7.4 7.4	7.4 7.4 7.4 7.4 7.4	7.5 7.5 	7.5 7.5	7.5 7.5 7.5 7.5 7.5	7.4 7.4 7.5 7.4 7.5	7.4 7.5 7.5 7.4 7.4	7.4 7.5 7.5 7.4 7.4
21 22 23 24 25	7.1	7.1	7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.3 7.3 7.3	7.4 7.4 7.4 7.5 7.5	7.4 7.4 7.4 7.2 7.4	=======================================	=======================================	7.5 7.6 7.6 7.6 7.7	7.5 7.5 7.6 7.6 7.6	7.4 7.4 7.5 7.5 7.5	7.4 7.4 7.4 7.4 7.4
26 27 28 29 30	7.2 7.2 7.2 7.2 7.1	7.1 7.1 7.1 7.1 7.1	7.3 7.2 7.2 7.1 7.1	7.2 7.2 7.1 7.1 7.1	7.4 7.4 7.4 7.5 7.5	7.4 7.4 7.4 7.4	7.6 7.6 7.6	7.5 7.4 7.6	7.7 7.7 7.7 7.7 7.7	7.7 7.6 7.6 7.6 7.6	7.6 7.5 7.5 7.5 7.5	7.5 7.5 7.5 7.5 7.5
31 MONTH			7.1 7.3	7.0	7.5	7.0	7.7	7.6	7.7	7.7	7.7	7.4

MISSISSIPPI RIVER MAIN STEM

07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	00	TOBER	NOW	EMBER	25.0	ENDEO.	1	WILL COV	EED/			
	00	IOBER	NOV	FWREK	DECE	EMBER	JAI	NUARY	FEB	RUARY	M	ARCH
1			20.0	20.0	11.0	11.0	7.0	6.5	7.0	6.5	8.5	8.0
2			20.0	19.5	11.0	10.5	7.0	6.5	6.5	6.0	8.5	8.5
3	28.0	27.0	19.5	19.5	10.5	10.0	7.0	6.5	6.5	6.5	9.0	8.5
5	27.0 26.0	26.5 25.5	19.5	19.0 18.5	10.5	10.0	6.5	6.5	6.5	6.5	9.5 10.0	9.0
9	20.0	23.3	.,		11.5		0.3	•••				
6	25.5	24.5	18.5	18.0	11.5	11.0	7.0	6.0	7.0	6.5	9.5	9.5
7	24.5	24.0			11.5	11.0	6.5	6.5	7.5	7.0	9.5	9.5
8	24.0	23.5			11.5 12.0	10.5	7.0	6.5	8.0	7.5	9.5	9.5
10	23.5	23.0			11.5	10.5	7.0	6.5	8.5	8.0	9.5	9.5
11	23.0	23.0			11.5	10.0	6.5	6.5			9.5	9.5
12	23.0	22.5	16.5	16.5	10.5	10.0	6.5	6.0	7.0	7.0 6.5	9.5	9.5
14	22.5	22.0	16.5	16.5	11.0	10.5	6.5	6.5	6.5	6.0		
15	22.5	22.0	16.5	16.5	10.5	10.5	6.5	6.5	6.0	6.0		
1.	22.5	20.5	14.5	1.5		10 5						
16 17	22.5	22.5	16.5 17.0	16.5	10.5	10.5	6.5	6.0	6.0	6.0 5.5		
18	22.5	22.5	16.5	16.0	10.5	10.0	6.0	5.5	5.5	5.5		
19	22.5	22.5	16.0	15.5	10.5	10.0	6.0	5.5	5.5	5.0		
20	22.5	22.0	16.0	15.5	10.5	10.0	5.5	5.5	5.5	5.5		
21	22.0	22.0	15.5	15.0	10.0	9.5	5.5	5.5	6.0	5.5		
22	22.0	22.0	15.0	14.5	9.5	9.5	5.5	5.0	6.0	5.5		
23	22.0	22.0	15.0	14.5	10.0	9.5	5.5	5.0	6.5	6.0		
24	22.0	21.5	14.5	14.0	9.5	9.0	5.5	5.0	6.5	6.0		
25	21.5	21.5	14.0	13.5	9.0	8.5	6.0	5.5	7.0	6.5		
26	21.5	21.0	13.0	12.5	8.5	8.0	6.0	5.5	7.5	7.0		
27	21.5	21.0	12.5	12.0	8.0	7.5	6.0	5.5	8.0	7.5		
28	21.5	21.0	12.0	11.5	7.5	7.5	6.0	5.5	8.0	7.5		
29	21.0	20.5	12.0	11.5	7.5	7.0	6.0	5.5				
30 31	20.5	20.0	11.5	11.0	7.0 7.0	7.0 6.5	6.5	6.0				
31	20.0	20.0			7.0	0.5	0.5	0.0				
MONTH	28.0	20.0	20.0	11.0	12.0	6.5	7.0	5.0	8.5	5.0		
	20.0	20.0	20.0	11.0	12.0	0.5	7.0	3.0	0.5	3.0		
	20.0	20.0	20.0	11.0	12.0	0.3	7.0	3.0	0.5	3.0	277	14.50
		PRIL		MAY		JNE		JLY		SUST.		TEMBER
	A	PRIL		МАУ	J	JNE	JI	JLY	ΔU	GUST	SEP	темвек
1 2					J(20.0							
1 2 3	A	PRIL	20.5 20.5 20.5	20.5 20.5 20.5	20.0 20.5 21.0	20.0 20.5 20.5	27.5 27.5 27.0	27.5 27.0 27.0	31.0 	30.5	SEP 28.5 28.5 28.5	7EMBER 28.0 28.0 28.5
1 2 3 4	 	PRIL 	20.5 20.5 20.5 20.5	20.5 20.5 20.5 20.5 20.5	20.0 20.5 21.0 21.5	20.0 20.5 20.5 21.0	27.5 27.5 27.0 27.0	27.5 27.0 27.0 27.0	31.0 30.5	30.5 30.0	SEP 28.5 28.5 28.5 29.0	Z8.0 28.0 28.5 28.5
1 2 3	A1	PRIL	20.5 20.5 20.5	20.5 20.5 20.5	20.0 20.5 21.0	20.0 20.5 20.5	27.5 27.5 27.0	27.5 27.0 27.0	31.0 	30.5	SEP 28.5 28.5 28.5	7EMBER 28.0 28.0 28.5
1 2 3 4	 	PRIL 	20.5 20.5 20.5 20.5	20.5 20.5 20.5 20.5 20.5	20.0 20.5 21.0 21.5	20.0 20.5 20.5 21.0	27.5 27.5 27.0 27.0	27.5 27.0 27.0 27.0	31.0 30.5	30.5 30.0	SEP 28.5 28.5 28.5 29.0	Z8.0 28.0 28.5 28.5
1 2 3 4 5	 	PRIL	20.5 20.5 20.5 20.5 20.5 20.5 20.5	20.5 20.5 20.5 20.5 20.5 20.5 20.5	20.0 20.5 21.0 21.5 22.0 22.5 22.5	20.0 20.5 20.5 21.0 21.5 22.0 22.0	27.5 27.5 27.0 27.0 27.0 27.0	27.5 27.0 27.0 27.0 27.0 27.0	31.0 31.0 30.5 30.0 29.5 29.5	30.5 30.0 29.5 29.5 29.5	SEP 28.5 28.5 28.5 29.0 29.0 29.0	Z8.0 28.0 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8	AI	PRIL	20.5 20.5 20.5 20.5 20.5 20.5 21.0 21.0	MAY 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	20.0 20.5 21.0 21.5 22.0 22.5 22.5 23.0	20.0 20.5 20.5 21.0 21.5 22.0 22.0 22.5	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.0	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 30.5 30.0 29.5 29.5 29.5	30.5 30.0 29.5 29.5 29.5 29.5	SEP 28.5 28.5 28.5 29.0 29.0 28.5 28.5 28.5	Z8.0 28.0 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8	AI	PRIL	20.5 20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0	20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	20.0 20.5 21.0 21.5 22.0 22.5 22.5 23.0 24.0	20.0 20.5 20.5 21.0 21.5 22.0 22.0 22.5 23.5	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 30.5 30.0 29.5 29.5 29.5 29.5	30.5 30.0 29.5 29.5 29.5 29.0	SEP 28.5 28.5 29.0 29.0 28.5 28.5 28.5 28.5	28.0 28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8	AI	PRIL	20.5 20.5 20.5 20.5 20.5 20.5 21.0 21.0	MAY 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	20.0 20.5 21.0 21.5 22.0 22.5 22.5 23.0	20.0 20.5 20.5 21.0 21.5 22.0 22.0 22.5	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.0	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 30.5 30.0 29.5 29.5 29.5	30.5 30.0 29.5 29.5 29.5 29.5	SEP 28.5 28.5 28.5 29.0 29.0 28.5 28.5 28.5	Z8.0 28.0 28.5 28.5 28.5 28.5 28.5 28.5
1 2 3 4 5 6 7 8 9 10	AI	PRIL	20.5 20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0	20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	20.0 20.5 21.0 21.5 22.0 22.5 22.5 23.0 24.0 24.5	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.5 27.5	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 30.5 30.0 29.5 29.5 29.5 29.5 29.0	30.5 30.0 29.5 29.5 29.5 29.0 29.0 29.0	SEP 28.5 28.5 29.0 29.0 28.5 28.5 28.5 28.6 28.0	28.0 28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.0 28.0
1 2 3 4 5 6 7 8 9 10	AI	PRIL	20.5 20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0	MAY 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.	20.0 20.5 21.0 21.5 22.0 22.5 22.5 23.0 24.5 24.5 25.0	20.0 20.5 20.5 21.0 21.5 22.0 22.0 22.5 23.5 24.0	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 30.5 30.0 29.5 29.5 29.5 29.5 29.0	30.5 30.0 29.5 29.5 29.0 29.0 29.0 29.0 29.0	SEP 28.5 28.5 29.0 29.0 28.5 28.5 28.5 28.6 28.0 28.0	28.0 28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.0 28.0
1 2 3 4 5 6 7 8 9 10	AI	PRIL	20.5 20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0 21.0 21.0 21.0	MAY 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.	20.0 20.5 21.0 21.5 22.0 22.5 23.0 24.0 24.5 24.5 25.0 25.5	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5 24.5	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.0 28.5	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 30.5 30.0 29.5 29.5 29.5 29.0 29.0 29.0	30.5 30.0 29.5 29.5 29.0 29.0 29.0 29.0 29.0	SEP 28.5 28.5 29.0 29.0 29.0 28.5 28.5 28.5 28.5 28.0 28.0 28.0	28.0 28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.0 28.0 28.0 27.5
1 2 3 4 5 6 7 8 9 10	AI	PRIL	20.5 20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0	MAY 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.	20.0 20.5 21.0 21.5 22.0 22.5 22.5 23.0 24.5 24.5 25.0	20.0 20.5 20.5 21.0 21.5 22.0 22.0 22.5 23.5 24.0	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 30.5 30.0 29.5 29.5 29.5 29.5 29.0	30.5 30.0 29.5 29.5 29.0 29.0 29.0 29.0 29.0	SEP 28.5 28.5 29.0 29.0 28.5 28.5 28.5 28.6 28.0 28.0	28.0 28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.0 28.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	AI	PRIL	20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0 21.0 21.0 21.5 21.5	MAY 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.	20.0 20.5 21.0 21.5 22.0 22.5 22.5 23.0 24.0 24.5 24.5 25.0 25.5 25.5 26.0	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5 24.5 25.0 25.5	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.0 28.5 29.0	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 30.5 30.0 29.5 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.0	30.5 30.0 29.5 29.5 29.0 29.0 29.0 29.0 29.0 28.5 29.0 28.5 29.0	SEP 28.5 28.5 29.0 29.0 28.5 28.5 28.5 28.0 28.0 28.0 27.5	28.0 28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.0 28.0 28.0 27.5 27.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	AI	PRIL	20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0 21.0 21.0 21.5 21.5 21.5	MAY 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.	20.0 20.5 21.0 21.5 22.0 22.5 23.0 24.0 24.5 24.5 25.5 25.5 26.0 26.0	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5 24.5 25.0 25.5 26.0	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.5 29.0 29.5	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 30.5 30.0 29.5 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.0	30.5 30.0 29.5 29.5 29.0 29.0 29.0 29.0 29.0 28.5 29.0 28.5 29.0	SEP 28.5 28.5 28.5 29.0 29.0 28.5 28.5 28.5 28.0 28.0 28.0 27.5 27.5	28.0 28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.0 28.0 28.0 27.5 27.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	AI	PRIL	20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0 21.0 21.5 21.5 21.5	20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	20.0 20.5 21.0 21.5 22.0 22.5 22.5 23.0 24.0 24.5 25.5 25.5 25.5 26.0 26.0 26.5	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5 24.5 25.0 25.0 25.5 26.0 26.0	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.0 28.5 29.0 29.5	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 	30.5 30.0 29.5 29.5 29.5 29.0 29.0 29.0 28.5 29.0 28.5 29.0	SEP 28.5 28.5 29.0 29.0 28.5 28.5 28.5 28.0 28.0 28.0 27.5 27.5	28.0 28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.0 28.0 28.0 27.5 27.5 27.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	AI	PRIL	20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0 21.0 21.0 21.5 21.5 21.5	MAY 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.	20.0 20.5 21.0 21.5 22.0 22.5 23.0 24.0 24.5 24.5 25.5 25.5 26.0 26.0	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5 24.5 25.0 25.5 26.0	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.5 29.0 29.5	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 30.5 30.0 29.5 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.0	30.5 30.0 29.5 29.5 29.0 29.0 29.0 29.0 29.0 28.5 29.0 28.5 29.0	SEP 28.5 28.5 28.5 29.0 29.0 28.5 28.5 28.5 28.0 28.0 28.0 27.5 27.5	28.0 28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.0 28.0 28.0 27.5 27.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	AI	PRIL	20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0 21.0 21.5 21.5 21.5 21.5	20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	20.0 20.5 21.0 21.5 22.0 22.5 22.5 23.0 24.0 24.5 25.0 25.5 25.0 26.0 26.5 27.0	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5 25.0 25.5 26.0 26.0 26.5	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.0 28.5 29.0 29.5	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 	30.5 30.0 29.5 29.5 29.0 29.0 29.0 29.0 28.5 29.0 28.5 29.0 28.5 29.0 29.0 29.0 29.0	SEP 28.5 28.5 29.0 29.0 28.5 28.5 28.5 28.0 28.0 28.0 28.0 27.5 27.5 27.5	28.0 28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.0 28.0 27.5 27.5 27.5 27.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	AI	PRIL	20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0 21.0 21.5 21.5 21.5 21.5 21.5	20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	20.0 20.5 21.0 21.5 22.0 22.5 23.0 24.0 24.5 25.0 25.5 25.0 26.0 26.5 27.0 27.0	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.0	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.0 28.5 29.0 29.5	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 	30.5 30.0 29.5 29.5 29.0 29.0 29.0 28.5 29.0 28.5 29.0 28.5 29.0 29.0 29.0 29.0 29.0 29.5	SEP 28.5 28.5 29.0 29.0 28.5 28.5 28.5 28.0 28.0 28.0 28.0 27.5 27.5 27.5 27.5 27.6 26.5 26.0	28.0 28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.0 28.0 27.5 27.5 27.5 27.5 27.5
1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		PRIL	20.5 20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0 21.0 21.5 21.5 21.5 21.5 21.5 21.5	MAY 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.	20.0 20.5 21.0 21.5 22.0 22.5 22.5 23.0 24.0 24.5 25.5 25.5 25.5 26.0 26.0 27.0 27.0 27.0	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5 24.5 25.0 25.0 25.0 26.0 26.5 27.0 27.0	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.0 28.5 29.0 29.5	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 30.5 30.0 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 30.0 30.0	30.5 30.0 29.5 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	SEP 28.5 28.5 29.0 29.0 28.5 28.5 28.6 28.0 28.0 28.0 27.5 27.5 27.5 27.5 27.5 26.5 26.0	28.0 28.0 28.5 28.5 28.5 28.5 28.5 28.0 28.0 28.0 28.0 27.5 27.5 27.5 27.5 27.0 26.5 26.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	AI	PRIL	20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0 21.0 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5	MAY 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.	20.0 20.5 21.0 21.5 22.0 22.5 23.0 24.0 24.5 25.5 25.5 25.5 26.0 26.5 27.0 27.0 27.5 27.5	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5 25.0 25.0 25.5 26.0 26.0 27.0 27.0	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.0 28.5 29.0 29.5	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 30.5 30.0 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.0 29.0 30.0 30.0 30.0 30.0	30.5 30.0 29.5 29.5 29.0 29.0 29.0 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	SEP 28.5 28.5 29.0 29.0 28.5 28.5 28.5 28.0 28.0 28.0 27.5 27.5 27.5 27.6 26.0 26.0 26.0	28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.0 28.0 28.0 27.5 27.5 27.5 26.5 26.5 26.0 26.0
1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	AI	PRIL	20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0 21.0 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5	MAY 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.	20.0 20.5 21.0 21.5 22.0 22.5 23.0 24.0 24.5 25.0 25.5 25.0 26.0 27.0 27.0 27.5 27.5 27.5	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.0 27.0	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.0 28.5 29.0 29.5	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 30.5 30.0 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.0 29.0 30.0 30.0 30.0 30.0	30.5 30.0 29.5 29.5 29.0 29.0 29.0 29.0 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.5 30.0 30.0 30.0 30.0 30.0	SEP 28.5 28.5 29.0 29.0 28.5 28.5 28.5 28.0 28.0 28.0 27.5 27.5 27.5 27.5 27.6 26.6 26.0 26.0 26.0	28.0 28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.0 28.0 27.5 27.5 27.5 27.5 27.5 27.5 26.5 26.0 26.5 26.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	AI	PRIL	20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0 21.0 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5	MAY 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.	20.0 20.5 21.0 21.5 22.0 22.5 23.0 24.0 24.5 25.5 25.5 25.5 26.0 26.5 27.0 27.0 27.5 27.5	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5 25.0 25.0 25.5 26.0 26.0 27.0 27.0	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.0 28.5 29.0 29.5	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 30.5 30.0 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.0 29.0 30.0 30.0 30.0 30.0	30.5 30.0 29.5 29.5 29.0 29.0 29.0 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	SEP 28.5 28.5 29.0 29.0 28.5 28.5 28.5 28.0 28.0 28.0 27.5 27.5 27.5 27.6 26.0 26.0 26.0	28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.0 28.0 28.0 27.5 27.5 27.5 26.5 26.5 26.0 26.0
1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Al	PRIL	20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0 21.0 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5	MAY 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.	20.0 20.5 21.0 21.5 22.0 22.5 23.0 24.0 24.5 25.5 25.5 26.0 26.5 27.0 27.0 27.5 27.5 27.5 27.5	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.0 27.0	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.0 28.5 29.0 29.5	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 	30.5 30.0 29.5 29.5 29.0 29.0 29.0 29.0 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.5 30.0 30.0 30.0 30.0 30.0	SEP 28.5 28.5 29.0 29.0 28.5 28.5 28.5 28.0 28.0 28.0 27.5 27.5 27.5 27.5 27.6 26.6 26.0 26.0 26.0	28.0 28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.0 28.0 27.5 27.5 27.5 27.5 27.5 27.5 26.5 26.0 26.5 26.0
1 2 3 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	21.0	PRIL	20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0 21.0 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5	MAY 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.	20.0 20.5 21.0 21.5 22.0 22.5 22.5 23.0 24.0 24.5 25.5 25.5 26.0 26.0 27.0 27.0 27.0 27.0 27.5	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5 25.0 25.0 25.0 25.0 26.0 26.0 27.0 27.0 27.0 27.0 27.0	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.5 29.0 29.5	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 31.0 30.5 30.5 30.0 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	30.5 30.0 29.5 29.5 29.0 29.0 29.0 29.0 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.5 29.0 29.5 29.0 29.5 29.0 29.0 29.5 29.0 29.5 29.0 29.5 29.0 29.5 29.0 29.5 2	SEP 28.5 28.5 28.5 29.0 29.0 28.5 28.5 28.6 28.0 28.0 28.0 27.5 27.5 27.5 27.5 27.5 26.6 26.0 26.0 26.0 26.0 26.0 25.5	28.0 28.0 28.5 28.5 28.5 28.5 28.5 28.0 28.0 28.0 28.0 28.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	21.0	PRIL	20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0 21.0 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5	MAY 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.	20.0 20.5 21.0 21.5 22.0 22.5 23.0 24.0 24.5 25.5 25.5 26.0 26.0 27.0 27.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5 25.0 25.5 25.0 25.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.5 29.0 29.5 30.0 30.0	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 31.0 30.5 30.0 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.0 29.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.0 20.0	30.5 30.0 30.0 29.5 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.5 29.0 29.0 29.5 29.0 29.5 29.0 29.0 29.5 29.0 29.0 29.5 29.0 29.0 29.0 29.5 29.0 29.5 29.0 29.5 29.0 29.0 29.5 29.0 29.5 29.0 29.5 29.0 29.5 29.0 29.5 29.0 29.5 29.5 29.0 29.5	SEP 28.5 28.5 28.5 29.0 29.0 28.5 28.5 28.5 28.0 28.0 27.5 27.5 27.5 27.5 27.5 27.6 26.0 26.0 26.0 26.0 26.0 25.5 25.5	28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.6 28.0 28.0 28.0 28.0 28.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	21.0 21.0 20.5 20.5	PRIL	20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5	20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	20.0 20.5 21.0 21.5 22.0 22.5 23.0 24.0 24.5 25.5 25.5 26.0 26.5 27.0 27.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5 25.0 25.0 25.5 26.0 26.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.0 28.5 29.0 29.5	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 30.5 30.0 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.0 29.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.0 20.0 2	30.5 30.0 29.5 29.5 29.0 29.0 29.0 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.5 29.0 29.0 29.5 29.0 29.0 29.5 29.0 29.0 29.5 29.0 20.0 2	SEP 28.5 28.5 29.0 29.0 28.5 28.5 28.0 28.0 28.0 27.5 27.5 27.5 27.6 26.0 26.0 26.0 26.0 26.0 26.0 25.5 25.5	28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.0 28.0 28.0 28.0 27.5 27.5 27.5 26.5 26.5 26.5 25.5 25.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	21.0	PRIL	20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0 21.0 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5	MAY 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.	20.0 20.5 21.0 21.5 22.0 22.5 23.0 24.0 24.5 25.5 25.5 26.0 26.0 27.0 27.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5 25.0 25.5 25.0 25.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.0 28.5 29.0 29.5 30.0 30.0	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.5 28.0 28.5 29.0 29.5	31.0 31.0 30.5 30.5 30.5 29.5 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.5 29.5 29.5 29.0 29.0 29.0 29.5 29.5 29.5 29.0 20.0	30.5 30.0 29.5 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	SEP 28.5 28.5 28.5 29.0 29.0 28.5 28.5 28.5 28.0 28.0 27.5 27.5 27.5 27.5 27.5 27.6 26.0 26.0 26.0 26.0 26.0 25.5 25.5	28.0 28.5 28.5 28.5 28.5 28.5 28.5 28.6 28.0 28.0 28.0 28.0 28.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	21.0 21.0 20.5 20.5 20.5	PRIL	20.5 20.5 20.5 20.5 20.5 21.0 21.0 21.0 21.0 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5	20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	20.0 20.5 21.0 21.5 22.0 22.5 23.0 24.0 24.5 25.5 25.5 26.0 26.5 27.0 27.0 27.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5	20.0 20.5 20.5 21.0 21.5 22.0 22.5 23.5 24.0 24.5 25.0 25.5 26.0 25.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.5 27.5 27.5 28.0 28.5 29.0 29.5	27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	31.0 30.5 30.0 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.0 29.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.0 20.0 2	30.5 30.0 29.5 29.5 29.0 29.0 29.0 28.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.5 29.0 29.0 29.5 29.0 29.0 29.5 29.0 29.0 29.5 29.0 20.0 2	SEP 28.5 28.5 29.0 29.0 28.5 28.5 28.0 28.0 28.0 28.0 27.5 27.5 27.5 27.6 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	28.0 28.5 28.5 28.5 28.5 28.5 28.6 28.0 28.0 28.0 28.0 28.0 27.5 27.5 27.5 27.5 27.5 26.5 26.5 26.5 25.5 25.5

MISSISSIPPI RIVER MAIN STEM

07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA--Continued

DAYGEN, DISSOLVED (DD), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	ост	ORER	NOV	EMBER	DEC	EMBER	JAI	NUARY	FEB	RUARY	м	ARCH
1 2			8.6	8.4	10.5	10.3			11.7	11.6	10.9	10.7
3	7.4	7.1	8.4	7.9	10.6	10.4			11.9	11.7	10.8	10.6
4	7.7	7.2	8.9	8.5	10.9	10.6			12.1	11.8	10.4	10.0
5	7.7	7.5	9.0	8.6	11.4	10.9			12.1	11.9	10.0	9.7
6	7.9	7.5	9.1	8.6	11.5	11.2			11.9	11.7	9.7	9.3
7	7.8	7.5	7.1		11.4	11.3			11.7	11.3	9.2	9.1
8	7.8	7.4			11.5	11.3			11.3	11.0	9.2	8.8
9	7.9	1.5			11.5	11.3			11.1	11.0	8.9	8.8
10	7.7	7.4			11.4	11.1			11.0	10.7	8.8	8.7
11	7.6	7.2			11.6	11.3					8.7	8.6
12					11.4	11.1			11.4	10.8	8.7	8.6
13			9.8	9.6	11.2	11.0			11.2	11.1		
14			9.7	9.5	10.9	10.7			11.3	10.2		
15	8.3	8.0	9.6	9.4	11.2	10.9			11.4	11.3		
16	8.3	8.0	9.5	9.4			11.6	11.4	11.5	11.0		
17	8.3	8.1	9.6	9.5			11.5	11.3	11.6	11.5		
18	8.2	8.1	9.6	9.5			11.6	11.4	11.8	11.6		
20	8.3	8.2	9.7	9.4			11.6	11.4	11.8	11.7		
							11.0		,			
21	8.3	8.0	9.8	9.6			12.2	11.6	11.8	11.7		
55	8.2	7.8	9.8	9.8			12.3	12.1	11.8	11.8		
23	7.9 7.3	7.5	10.1	9.6			12.3	12.0	11.8	11.7		
25	7.6	7.4	10.3	10.0			12.1	11.9	11.7	11.5		
26	7.7	7.4	10.6	10.3			12.0	11.8	11.5	11.3		
27 28	8.4	7.5 H.2	10.8	10.6			11.9	11.7	11.3	11.1		
29	3.6	8.4	10.8	10.3			12.1	11.8				
30	8.3	8.5	10.6	10.2			11.8	11.7				
31	8.7	8.5					11.7	11.7	775			
MONTH	8.8	7.1	10.8	7.7			222		12.1	10.2		
	ДР	AIL		чач	Ji	JNE	JI	JL Y	AUG	3UST	SEPI	TEMBER
1	ДР	AIL			JI	JNE		JLY 6•0	AU(12U6	SEP1	гемвек
1 2	ДР	PIL.	7.5 7.6	7.4 7.4			6.1	6.0				
3	АР	RIL.	1.5 1.6 1.7	7.4 7.4 7.5	===	===	6.1 6.0 5.9	6.0 5.9 5.6	===	===		===
2 3 4	ДР	ATL.	7.5 7.6 7.7 7.9	7.4 7.4 7.5 7.6	===	===	6.1 6.0 5.9 5.6	6.0 5.9 5.6 5.4	6.1	6.0	===	==
3	АР	A I L	1.5 1.6 1.7	7.4 7.4 7.5	===	===	6.1 6.0 5.9	6.0 5.9 5.6	===	===		===
2 3 4	АР	₽ĭL	7.5 7.6 7.7 7.9 8.0	7.4 7.4 7.5 7.6 7.9	=======================================	=======================================	6.1 6.0 5.9 5.6 5.7	6.0 5.9 5.6 5.4 5.3	6.1 6.1	6.0 6.0	=======================================	=======================================
2 3 4 5	ДР	RIL	7.5 7.6 7.7 7.9 8.0 7.9 8.0	7.4 7.4 7.5 7.6 7.9 7.9			6.1 6.0 5.9 5.6 5.7	6.0 5.9 5.6 5.4 5.3	6.1 6.1 6.1	6.0 6.0 6.0	=======================================	
2 3 4 5 6 7 8	ΑР	RIL	7.5 7.6 7.7 7.9 8.0 7.9	7.4 7.4 7.5 7.6 7.9 7.9 7.8 7.7			6.1 6.0 5.9 5.6 5.7 5.9 6.0	6.0 5.9 5.6 5.4 5.3 5.4 5.8 5.9	6.1 6.1 6.1 6.1 6.0	6.0 6.0 6.0 5.6	=======================================	=======================================
2 3 4 5 6 7 8	ΑР	₽ĮL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 7.9 8.0	7.4 7.4 7.5 7.6 7.9 7.9 7.8 1.7			6.1 6.0 5.9 5.6 5.7 5.9 6.0 6.1	6.0 5.9 5.6 5.4 5.3	6.1 6.1 6.1	6.0 6.0 6.0	=======================================	
2 3 4 5 6 7 8 9	ΑР	₽ĮL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 7.9 8.0 7.9	7.4 7.4 7.5 7.6 7.9 7.8 7.7 7.8			6.1 6.0 5.9 5.6 5.7 5.9 6.0 6.1 6.1	6.0 5.9 5.6 5.4 5.3 5.4 5.8 5.9 6.0	6.1 6.1 6.1 6.1 6.0 5.9 5.9	6.0 6.0 6.0 5.6 5.7	7.0	6.8
2 3 4 5 6 7 8 9 10	ΔР	RIL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 7.9 8.0 8.1	7.4 7.4 7.5 7.6 7.9 7.9 7.8 7.7 7.8 7.9			6.1 6.0 5.9 5.6 5.7 5.9 6.0 6.1 6.1	6.0 5.9 5.6 5.4 5.3 5.4 5.8 6.0 6.1	6.1 6.1 6.1 6.1 6.0 5.9 5.9	6.0 6.0 6.0 5.6 5.7 5.9	7.0 7.1	6.8
2 3 4 5 6 7 8 9 10	ДР	ŘĮL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 7.9 8.0 8.1 8.1	7.4 7.4 7.5 7.6 7.9 7.8 7.7 7.8 7.9 8.0 8.0			6.1 6.0 5.9 5.6 5.7 5.9 6.0 6.1 6.1 6.1	6.0 5.9 5.6 5.4 5.3 5.4 5.8 5.9 6.0 6.1	6.1 6.1 6.1 6.1 6.0 5.9 5.9	6.0 6.0 6.0 5.6 5.7 5.9	7.0 7.1	6.8 7.0
2 3 4 5 6 7 8 9 10	ДР	₽ĮL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 7.9 8.1 8.1	7.4 7.4 7.5 7.6 7.9 7.8 7.7 7.8 7.9 8.0 7.9			6.1 6.0 5.9 5.6 5.7 5.9 6.0 6.1 6.1 6.1	6.0 5.9 5.6 5.4 5.3 5.4 5.8 6.0 6.1	6.1 6.1 6.1 6.1 6.0 5.9 5.9	6.0 6.0 6.0 5.6 5.7 5.9	7.0 7.1	6.8
2 3 4 5 6 7 8 9 10	ДР	₽ĮL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 7.9 8.0 8.1 8.1	7.4 7.4 7.5 7.6 7.9 7.8 7.7 7.8 7.9 8.0 8.0			6.1 6.0 5.9 5.6 5.7 5.9 6.0 6.1 6.1 6.1	6.0 5.9 5.6 5.4 5.3 5.4 5.8 5.9 6.1 5.7 5.5	6.1 6.1 6.1 6.1 6.0 5.9 5.9	6.0 6.0 6.0 5.6 5.7 5.9 5.8 6.2 6.1	7.0 7.1	6.8 7.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15	ДР	₽ĮL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.1	7.4 7.4 7.5 7.6 7.9 7.8 7.7 7.8 7.9 8.0 7.9 7.9			6.1 6.0 5.9 5.6 5.7 5.9 6.0 6.1 6.1 6.1 5.7 6.0 5.9	6.0 5.9 5.6 5.4 5.3 5.4 5.8 5.9 6.0 6.1 5.7 5.5 5.8	6.1 6.1 6.1 6.1 6.0 5.9 5.9 6.4 6.4 6.2 6.1	6.0 6.0 6.0 5.6 5.7 5.9 5.8 6.2 6.1 6.0 5.9	7.0 7.1 7.1 7.2	 6.8 7.0 7.0 7.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15	ДР	RIL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.2	7.4 7.4 7.5 7.6 7.9 7.8 7.7 7.8 7.9 8.0 7.9 7.9 7.9			6.1 6.0 5.9 5.6 5.7 5.9 6.0 6.1 6.1 6.1 5.7 6.0 5.9 5.9	6.0 5.9 5.6 5.4 5.3 5.4 5.8 5.9 6.0 6.1 5.7 5.5 5.5	6.1 6.1 6.1 6.1 6.0 5.9 5.9 6.4 6.2 6.1	6.0 6.0 6.0 5.6 5.7 5.9 5.8 6.2 6.1 6.0	7.0 7.1	6.8 7.0 7.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15	АР	₹IL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.1	7.4 7.4 7.5 7.6 7.9 7.8 7.7 7.8 7.9 8.0 7.9 7.9			6.1 6.0 5.9 5.6 5.7 5.9 6.0 6.1 6.1 6.1 5.7 6.0 5.9	6.0 5.9 5.6 5.4 5.3 5.4 5.8 5.9 6.1 5.7 5.5 5.8 5.8	6.1 6.1 6.1 6.1 6.0 5.9 5.9 6.4 6.2 6.1 6.0	6.0 6.0 6.0 5.6 5.7 5.9 5.8 6.2 6.1 6.0 5.9	7.0 7.1 7.1 7.1 7.2	6.8 7.0 7.0 7.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15	АР	₹ĮĹ	7.5 7.6 7.7 7.9 8.0 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.2	7.4 7.4 7.5 7.6 7.9 7.8 7.7 7.8 7.9 8.0 7.9 7.9 7.9 7.9			6.1 6.0 5.9 5.6 5.7 5.9 6.0 6.1 6.1 6.1 5.7 6.0 5.9 5.9	6.0 5.9 5.6 5.4 5.3 5.4 5.8 5.9 6.0 6.1 5.7 5.5 5.8 5.8 5.8	6.1 6.1 6.1 6.1 6.0 5.9 5.9 6.4 6.2 6.1 6.0	6.0 6.0 6.0 5.6 5.7 5.9 5.8 6.2 6.1 6.0 5.9	7.0 7.1 7.1 7.2 7.2	7.0 7.0 7.1 6.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15	АР	₹ĮL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 7.9 8.1 8.1 8.1 8.1 8.1 8.2	7.4 7.4 7.5 7.6 7.9 7.8 7.7 7.8 7.9 8.0 8.0 7.9 7.9 7.9			6.1 6.0 5.9 5.6 5.7 5.9 6.1 6.1 6.1 5.7 6.0 5.9 5.9	6.0 5.9 5.6 5.4 5.3 5.4 5.9 6.0 6.1 5.7 5.5 5.8 5.8	6.1 6.1 6.1 6.1 6.0 5.9 5.9 6.4 6.4 6.2 6.1 6.0	6.0 6.0 6.0 5.6 5.7 5.9 5.8 6.2 6.1 6.0 5.9	7.0 7.1 7.1 7.1 7.2 7.2	6.8 7.0 7.0 7.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15	АР	₽ĮL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.2	7.4 7.4 7.5 7.6 7.9 7.8 7.7 7.8 7.9 8.0 7.9 7.9 7.9 7.9			6.1 6.0 5.9 5.6 5.7 5.9 6.0 6.1 6.1 6.1 5.7 6.0 5.9 5.9	6.0 5.9 5.6 5.4 5.3 5.4 5.8 5.9 6.0 6.1 5.7 5.5 5.8 5.8 5.8	6.1 6.1 6.1 6.1 6.0 5.9 5.9 6.4 6.2 6.1 6.0	6.0 6.0 6.0 5.6 5.7 5.9 5.8 6.2 6.1 6.0 5.9	7.0 7.1 7.1 7.2 7.2	7.0 7.0 7.1 6.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	АР	RIL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 7.9 8.1 8.1 8.1 8.1 8.2 8.4 8.5 8.6	7.4 7.4 7.5 7.6 7.9 7.8 7.7 7.8 7.9 8.0 7.9 7.9 7.9 7.9			6.1 6.0 5.9 5.6 5.7 5.9 6.0 6.1 6.1 6.1 5.7 6.0 5.9 5.9	6.0 5.9 5.6 5.4 5.3 5.4 5.8 5.9 6.0 6.1 5.7 5.5 5.8 5.8 5.8	6.1 6.1 6.1 6.1 6.0 5.9 5.9 6.4 6.2 6.1 6.0 5.9 6.3 6.4 6.4 6.4	6.0 6.0 6.0 5.6 5.7 5.9 5.8 6.2 6.1 6.0 5.9 5.8 6.2 6.1 6.0 6.0	7.0 7.1 7.1 7.2 7.2	7.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	АР	RIL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2	7.4 7.4 7.5 7.6 7.9 7.8 7.7 7.8 7.9 8.0 8.0 7.9 7.9 7.9 7.9 8.2 8.4 8.5 8.5			6.1 6.0 5.9 5.6 5.7 5.9 5.9 6.1 6.1 6.1 6.1 5.7 6.0 5.9 5.9	6.0 5.9 5.6 5.4 5.3 5.4 5.8 5.9 6.0 6.1 5.7 5.5 5.8 5.8	6.1 6.1 6.1 6.1 6.0 5.9 5.9 6.4 6.4 6.2 6.1 6.0 5.9 6.3 6.4 6.4 6.4	6.0 6.0 6.0 6.0 5.7 5.9 5.8 6.2 6.1 6.0 5.7 6.2 6.0 6.0 6.0	7.0 7.1 7.1 7.1 7.2 7.2	7.0 7.0 7.0 7.1 6.9
2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	АР	ŘΊL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.2 8.4 8.5 8.6 8.6	7.4 7.4 7.5 7.6 7.9 7.8 7.7 7.8 7.9 8.0 8.0 7.9 7.9 7.9 8.2 8.4 8.5 8.5 8.7			6.1 6.0 5.9 5.6 5.7 5.9 6.1 6.1 6.1 5.7 6.0 5.9 5.9	6.0 5.9 5.6 5.4 5.3 5.4 5.9 6.0 6.1 5.7 5.5 5.8 5.8 5.8	6.1 6.1 6.1 6.1 6.0 5.9 5.9 6.4 6.4 6.2 6.1 6.0 5.9 6.3 6.4 6.4 6.4	6.0 6.0 6.0 5.6 5.7 5.9 5.8 6.2 6.1 6.0 5.7 6.2 6.1 6.3 6.4 6.3 6.1	7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.4	7.0 7.0 7.0 7.1 6.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	АР	ŘΊL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2	7.4 7.4 7.5 7.6 7.9 7.8 7.7 7.8 7.9 8.0 8.0 7.9 7.9 7.9 7.9 8.2 8.4 8.5 8.5			6.1 6.0 5.9 5.6 5.7 5.9 5.9 6.1 6.1 6.1 6.1 5.7 6.0 5.9 5.9	6.0 5.9 5.6 5.4 5.3 5.4 5.8 5.9 6.0 6.1 5.7 5.5 5.8 5.8	6.1 6.1 6.1 6.1 6.0 5.9 5.9 6.4 6.4 6.2 6.1 6.0 5.9 6.3 6.4 6.4 6.4	6.0 6.0 6.0 6.0 5.7 5.9 5.8 6.2 6.1 6.0 5.7 6.2 6.0 6.0 6.0	7.0 7.1 7.1 7.1 7.2 7.2	7.0 7.0 7.0 7.1 6.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	АР	ŘΊL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.2 8.4 8.5 8.6 8.6 8.6	7.4 7.4 7.5 7.6 7.9 7.8 7.7 7.8 7.9 8.0 8.0 7.9 7.9 7.9 7.9 7.9 8.2 8.4 8.5 8.5 8.5			6.1 6.0 5.9 5.6 5.7 5.9 6.1 6.1 6.1 6.1 5.7 6.0 5.9 5.9	6.0 5.9 5.6 5.4 5.3 5.4 5.8 5.9 6.0 6.1 5.7 5.5 5.8 5.8 5.8	6.1 6.1 6.1 6.1 6.0 5.9 5.9 6.4 6.4 6.2 6.1 6.0 5.9 6.3 6.4 6.4 6.4 6.4	6.0 6.0 6.0 5.6 5.7 5.9 5.8 6.2 6.1 6.3 6.4 6.3 6.1 5.9	7.0 7.1 7.1 7.1 7.2 7.2 7.3 7.3 7.4 7.5	7.0 7.0 7.0 7.1 6.9 7.1 7.2 7.2 7.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	АР	₹IL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.4 8.5 8.6 8.6	7.4 7.4 7.5 7.6 7.9 7.9 7.8 7.7 7.8 7.9 8.0 7.9 7.9 7.9 8.2 8.5 8.5 8.5 8.7			6.1 6.0 5.9 5.6 5.7 5.9 6.0 6.1 6.1 6.1 5.7 6.0 5.9 5.9	6.0 5.9 5.6 5.4 5.3 5.4 5.9 6.0 6.1 5.7 5.5 5.8 5.8 5.3	6.1 6.1 6.1 6.1 6.0 5.9 5.9 6.4 6.2 6.1 6.0 5.9 6.4 6.4 6.4 6.4 6.4 6.4 6.4	6.0 6.0 6.0 6.0 5.6 5.7 5.9 5.8 6.2 6.1 6.0 5.9 5.7 6.2 6.1 6.3 6.4 6.4 6.4 6.3 6.1 5.9	7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.4 7.5	7.1 6.9 7.2 7.1 7.2 7.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 32 24 25 26 27 28	АР	₹IL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.2 8.4 8.5 8.6 8.6 9.5 10.0	7.4 7.4 7.5 7.6 7.9 7.8 7.7 7.8 7.9 8.0 7.9 7.9 7.9 7.9 7.9 7.9 8.2 8.5 8.5 8.5 8.5			6.1 6.0 5.9 5.6 5.7 5.9 5.9 6.1 6.1 6.1 5.7 6.0 5.9 5.9	6.0 5.9 5.6 5.4 5.3 5.4 5.8 5.9 6.0 6.1 5.7 5.5 5.8 5.8 5.8	6.1 6.1 6.1 6.1 6.0 5.9 5.9 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.5 6.4	6.0 6.0 6.0 6.0 6.6 5.7 5.9 5.8 6.2 6.0 5.9 5.7 6.2 6.3 6.4 6.3 6.4 6.3 6.3	7.0 7.1 7.1 7.1 7.2 7.2 7.3 7.3 7.4 7.5	7.0 7.0 7.0 7.1 6.9 7.1 7.2 7.2 7.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	АР	₹Į	7.5 7.6 7.7 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.4 8.5 8.6 8.6 8.6 9.5 10.0 9.8 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	7.4 7.4 7.5 7.6 7.9 7.9 7.8 7.7 7.8 7.9 8.0 7.9 7.9 7.9 8.2 8.5 8.5 8.5 8.7			6.1 6.0 5.9 5.6 5.7 5.9 6.0 6.1 6.1 6.1 5.7 6.0 5.9 5.9	6.0 5.9 5.6 5.4 5.3 5.4 5.9 6.0 6.1 5.7 5.5 5.8 5.8 5.3	6.1 6.1 6.1 6.1 6.0 5.9 5.9 6.4 6.2 6.1 6.0 5.9 6.4 6.4 6.4 6.4 6.4 6.4 6.4	6.0 6.0 6.0 6.0 5.6 5.7 5.9 5.8 6.2 6.1 6.0 5.9 5.7 6.2 6.1 6.3 6.4 6.4 6.4 6.3 6.1 5.9	7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.3 7.4	7.0 7.0 7.0 7.1 6.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 32 24 25 26 27 28	АР	₽ĮL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.2 8.4 8.5 8.6 8.6 9.5 10.0	7.4 7.4 7.5 7.6 7.9 7.8 7.7 7.8 7.9 8.0 8.0 7.9 7.9 7.9 7.9 7.9 7.9 8.4 8.5 8.5 8.7			6.1 6.0 5.9 5.6 5.7 5.9 5.9 6.1 6.1 6.1 5.7 6.0 5.9 5.9	6.0 5.9 5.6 5.4 5.3 5.4 5.8 5.9 6.0 6.1 5.7 5.5 5.8 5.8 5.8	6.1 6.1 6.1 6.0 5.9 5.9 6.4 6.4 6.2 6.1 6.0 5.9 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4	6.0 6.0 6.0 6.0 5.6 5.7 5.9 5.8 6.2 6.1 6.0 5.9 5.7 6.2 6.3 6.4 6.3 6.1 5.9	7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.4 7.5	7.0 7.0 7.0 7.1 6.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	АР	₽IL	7.5 7.6 7.7 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.1 8.2 8.4 8.5 8.6 8.6 8.6 9.5 10.0 9.8 9.4 9.2 8.6	7.4 7.5 7.6 7.9 7.8 7.7 7.8 7.9 8.0 8.0 7.9 7.9 8.2 8.4 8.5 8.5 8.7 9.0 9.0 8.7 8.7 8.7			6.1 6.0 5.9 5.6 5.7 5.9 6.1 6.1 6.1 5.7 6.0 5.9 5.9	6.0 5.9 5.6 5.4 5.3 5.4 5.8 5.9 6.0 6.1 5.7 5.5 5.8 5.8 5.8	6.1 6.1 6.1 6.1 6.0 5.9 5.9 6.4 6.2 6.1 6.0 5.9 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4	6.0 6.0 6.0 6.0 5.6 5.7 5.9 5.8 6.2 6.1 6.3 6.4 6.3 6.1 5.9	7.0 7.1 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.4 7.5	7.0 7.0 7.0 7.1 6.9 7.1 7.2 7.1 7.2 7.3

MISSISSIPPI RIVER MAIN STEM

07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA (National stream-quality accounting network station)

LOCATION.--Lat 29°51'25", long 89°58'40", in lot 20, T.14 S., R.12 E., Plaquemines Parish, Hydrologic Unit 08090100, at ferry crossing at Belle Chasse and at mile 76.0 (122.3 km).

DRAINAGE AREA. -- 1,129,930 mi2 (2,926,500 km2), arbitrarily determined.

PERIOD OF RECORD .-- Water years 1975 to current year.

PERIOD OF DAILY RECORD . --

SPECIFIC CONDUCTANCE: October 1974 to current year.

WATER TEMPERATURES: October 1975 to current year. CHLORIDE: October 1974 to current year. SULFATE: October 1974 to September 1978.

DISSOLVED SOLIDS: October 1978 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum daily, 692 micromhos Jan. 31, 1981; minimum daily, 248 micromhos Mar. 31, 1976, Jan. 24, 1979.

WATER TEMPERATURES: Maximum daily, 32.0°C on several days during July and August, 1977, July 16, 17, 18, 1980, Aug. 3, 1981; minimum daily, 2.0°C Feb. 6, 8, 10, 11, 1978.

CHOLRIDE: Maximum daily, 85 mg/L June 26, 27, 1977; minimum daily, 11 mg/L Apr. 21, May 12, 1976.

SULFATE: Maximum daily, 93 mg/L Oct. 30, 1976; minimum daily, 28 mg/L Apr. 1, 1976.

DISSOLVED SOLIDS: Maximum, 370 mg/L Jan. 21-31, 1981; minimum, 156 mg/L Jan. 21-31, 1979.

EXTREMES FOR CURRENT YEAR.-SPECIFIC CONDUCTANCE: Maximum daily, 692 micromhos Jan. 31; minimum daily, 325 micromhos June 20, 21.
WATER TEMPERATURES: Maximum daily, 32.0°C Aug. 3; minimum daily, 7.0°C on several days during January and

CHLORIDE: Maximum daily, 70 mg/L Feb. 1; minimum daily, 12 mg/L June 6. DISSOLVED SOLIDS: Maximum, 370 mg/L Jan. 21-31; minimum, 188 mg/L June 21-31.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW. INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS, PER 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT												
15 NOV	1400	213000	487	7.0	55.0	10	3.2	7.1	1.3	K1400	190	160
06 DEC	1100	188000	525	7.4	18.5	5	3,5	8.2	•3	K1000	K50	170
09	1530	338000	484	7.0	11.5	5	38			K730	600	160
JAN 14	1130		543	7.3	6.5	5	3.0	11.7	1.7	K60		190
FEB	1150		343	. • 5	0.5	3	3.0	11.0	2.0	NOU		1,70
02 MAR	1255	204000	661	7.6	6.5	5	8.0	11.4	4.2	K380	K12	220
10	1330	609000	416	7.2	9.5	5	110	8.9	3.1	350	200	150
21 MAY	1200		409	7.2	21.0	5	13	7.5	2.4	400	280	140
09 JUN	1215	419000	401	7.1	21.0	5	60	6.8	1.7	1.2	40000	150
03 JUL	1200	757000	354	7.0	21.0	5	130	7.0	2.4	**	530	130
13 AUG	1100	530000	346	7.2	28.5	15	86	5.7	2.5	4.5	660	140
04 SEP	0815	432000	436	7.2	31.0	5	57	5.9	4.5	1.2.3	1500	160
01	0830	294000	465	6.7	29.0	10	35	6.2	1.0	35	4900	160

K Results based on colony count outside the acceptable range (non-ideal count).

MISSISSIPPI RIVER MAIN STEM

07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	HARD- NESS, NONCAR- BONATE (MG/L C4CO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM,	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	DIS- SOLVED (MG/L	FLUO- RIDE: DIS- SOLVED (MG/L AS F)	SILICA+ DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SUM OF CONSTI- TUENTS, DIS- SOLVED
oct 15	45	42	14	32	4.2	117	63	42	.5	7.3	291	276
NOV												
06 DEC	47	43	15	36	4.4	122	70	37	• 5	6.1	294	286
09 JAN	55	40	15	36	3.5	107	71	38	•5	5.1	284	274
14	60	47	17	37	3.3	127	71	47	• 7	6.8	306	307
FER 02	80	56	20	55	3.8	142	79	74	•5	7.1	399	382
MAR 10	57	40	12	23	3.0	92	59	29	• 3	5.1	268	228
APR 21	52	38	11 -	22	3.1	88	65	25	.4	3.7	251	222
MAY	63	41	12	20	2.9	89	64	21	•2	5.8	230	
09 NUL												
03	44	35	11	17	3.1	89	53	18	• 3	5.5	207	198
13	48	38	11	17	3.6	92	51	22	.3	7.0	215	207
04	48	42	13	55	3.6	110	59	25	•3	7.7	273	240
SEP 01	47	42	14	29	3.8	116	53	36	.4	7.5	275	258
DAT	NITE GEN NOZ+N TOTA (MG/	103 DI 103 DI 11 SOL 11 (MG	NO NI NO 3 G S- AMM VED TO /L (M	TRO- GE EN, AMMO ONIA DI	N. GEN. NIA MONI S- ORGA VED TOT (MG	AM- GENGAL DIS	IA + PH ANIC PHO B. TO	PHORIOS- PHORIOS, DI DTAL SOL DG/L (MG	VED TOT	NIC DISTAL SOL	BON, ORG ANIC SU S- PEN VED TO G/L (M	BON, SANIC IS- IDED ITAL IG/L
OCT												
NOV	1.	2 1	• 2	.03	03	.99	1.0	.39 .	30		6.6	.9
06. DEC		85	.81	.17 .	16 1	.1 1	.0	.31 .	23 1	. 4		
09.		95	.96	.05 .	08 1	.1	.72	.31 .	18 1	. 0		
JAN 14.	1.	5 1	•5	.31 .	29 1	.4	.6	.12 .	12		3.1	.5
FEB 02.	1.	4 1	.5	.25 .	26 1	.4	.1	.28	22	8.6		
MAR 10.	1.	6 1	.7	.23 .	24 1	.6	. 0	.29 .	11	8.8		
APR 21.		1 1	.2	.06 .	08	.97	.97	.21 .	18		4.1	.4
MAY 09.						.3	.96		26	6.2		
JUN												
03. JUL							.2			1		
13.	2.	1 2	• 1	.14 .	15 1	.6	.5	.51 .	12		13	. 4
04. SEP	1.	8 1	. 8	.17 .	06 1	• 2	.73	.28	00	6.4		
01.	1.	7 1	. 8	.11 .	12 1	.2 1	.1	.19 .	13	4.6		

MISSISSIPPI RIVER MAIN STEM

07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TO (U	ENIC TAL G/L AS)	ARSEN DIS SOLV (UG/ AS A	IC TO - RE ED ER L (U	IUM, TAL COV- ABLE IG/L BA)	BARI DIS SOLV (UG	UM, TO	OMIUM OTAL ECOV- RABLE UG/L S CD)	SO (U	MIUM IS- LVED G/L	CHRO- MIUMA TOTAL RECUV ERABL (UG/L AS CF	/- D	HRO- HIUM, HIS- HOLVED HUG/L HS CR)	TO RE ER (U	ABLE SOI	BALT. IS- LVED UG/L S CO)
ост					100		7.0						10		0	<3
15 JAN		2		2	100		70	1		4		0	0		0	<3
14		1		1	100		70	0		<1		10	10		0	<3
21 JUL		1		1	200		50			<1					8	<3
13		4		2	200		60	7		<1	•	20	10		0	
0	ATE	COPPE TOTA RECO ERAR (UG/ AS C	L C	OPPER. DIS- SOLVED (UG/L AS CU)	IRO TOT KEC ERA (UG AS	AL OV- BLE /L	IRON, DIS- SOLVED (UG/L AS FE)	LEA TOT REC ERA (UG	AL OV- BLE /L	LEAD, DIS- SOLVE (UG/L AS PB	D I	MANGA- NESE; TOTAL RECOV- ERABLE (UG/L AS MN)	MAI NE: D SOI	NGA- SE; IS- LVED G/L MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	
oc	T 5		24	9	1	100	10		7		0	7.0)	3	.0	
JA			9	4		450	10		13		0	50		30	.3	
AP			8	5		750	10		0		2	4 (4	•2	
JU			32	6		000	20		10		2	550		4	.7	
		MERCU DIS SOLV	JRY S- VED VL	TOTAL RECOV- ERABLE (UG/L	(UG	VED /L	SELE- NIUM. TOTAL (UG/L	SOL	M. S- VED	SILVER TOTAL RECOV ERABL (UG/L	. S E	ILVER	RE D EK	NC+ TAL CUV- ABLE G/L	ZINC. DIS- SOLVED (UG/L	
	ATE	AS H	4G)	AS NI)	AS	NI)	AS SE)	AS	SE)	AS AG	,)	AS AG) A5	ZN)	AS ZN)	
0C 1 JA	5		. 0	5		2	0		0		0		0	60	30	
	4		.0	3		4	0		0		0		0	20	8	
	1		.2	3		3	0		0		0		0	20	9	
	3		• 2	17		1	0		0		0		0	70	20	
AL D SO (U	ROSS PHA, DIS- DLVED DIG/L S	GROS ALPH SUSF TOTA (UGA AS	AL	GROSS ALPHA. DIS- SOLVED (PCI/L AS U-NAT)	TOT (PCI	HA. P.	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GRO BET SUS TOT (PCI AS CS-1	A. P. AL /L	GROSS RETA+ DIS- SOLVE (PCI/ AS SR YT-90	D L	GROSS BETA, SUSP. TOTAL (PCI/I AS SR YT-90	SOL RA	DIUM 26, IS- VED, DON THOD	URANIUM NATURAL DIS- SOLVED (UG/L AS U)	DIS- SOLVED
	8.0		1.0	5.4		.7	5.1		.9	4.	7		9	.22	1.7	_
	<5.8		1.5	3.9		1.0	5.7		. 7	5.				.22		
7.						= = =	200		1		25			7.00		

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER MAIN STEM

07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	PHYTO-		SEDI-	SED. SUSP.
	PLANK-	SEDI-	DIS-	SIEVE
	TON.	MENT.	CHARGE.	DIAM.
	TOTAL	SUS-	SUS-	% FINER
	(CELLS	PENDED	PENDED	THAN
DATE	PER ML)	(MG/L)	(T/DAY)	.062 MM
ост				
15	1700	115	66100	93
NOV				
06	1200	92	46700	92
DEC				
09		123	112000	97
JAN				
14		93		97
FEB				
02		121	66600	89
MAR				
10	4200	496	816000	95
APR				
21		72		98
MAY				
09	2100	3840	4340000	99
JUN				
03	2700	6110	12500000	94
JUL				
13	1500	4860	6950000	99
AUG			2000	
04		242	282000	99
SFP		2010		4.
01		105	83300	98

	SOLIDS,			SOLIDS,	15000000
	RESIDUE	SOLIDS.		RESIDUE	SOLIDS,
	AT 180	DIS-		AT 180	DIS-
	DEG. C	SOLVED		DEG. C	SOLVED
	DIS-	(TONS		DIS-	(TONS
	SOLVED	PER	2.12.	SOLVED	PER
DATE	(MG/L)	AC-FT)	DATE	(MG/L)	AC-FT)
OCT			APR		
01-10	280	.38	01-10	249	.34
11-20	288	.39	11-20	218	.30
21-31	286	.39	21-30	243	.33
NOV			MAY		
01-10	301	.41	01-10	236	.32
11-20	312	.42	11-20	230	.31
21-30	301	.41	21-31	269	.37
DEC			JUN.		
01-10	287	.39	01-10	204	.28
11-20	294	.40	11-20	193	.26
21-31	299	.41	21-30	188	.26
JAN			JUL		
01-10	312	.42	01-10	200	.27
11-20	340	.46	11-20	221	.30
21-31	370	.50	21-31	226	.31
FEB			AUG		
01-10	371	.50	01-10	252	.34
11-20	284	.39	11-20	239	.33
21-28	286	.39	21-31	280	.38
MAR			SEP		
01-10	265	. 36	01-10	267	.36
11-20	221	.30	11-20	279	.38
21-31	228	.31	21-30	272	.37

MISSISSIPPI RIVER MAIN STEM

07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA--Continued

	SPE	CIFIC CO	NDUCTANCE	(MICROMHO		25 DEG. C)	. WATER	YEAR OCTOBER	1980	TO SEPTEMBER	1981	
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	451	487	508	514	668	451	435	452	393	357	425	470
2	453	500	502	520	683	451	430	443	363	364	427	476
3	471 478	505 518	508 514	523 526	683 637	451 457	437	434 428	350 349	363 368	424	477 478
5		515	500	539	624	426	446	428	345	360	427	479
6	488	514	497	541	625	426	451	411	349	361		
7 8	512 512	525 525	496	546 551	645 596	421 422	423 421	410	357 343	344 338	397	506 510
9	508	523	478	510	556	414	423	402	335	334	403	525
10	483	514	478	539	557	414	414	406	343	340	396	535
11	486	493	485	539	533	425	415	395	352	350	383	535 529
12	495 479	503 521	490 498	522 523	532 516	436 431	414	395 394	352 353		366	504
14		546	495	545	499	422	395	394	340		366	491
15		523	477	560	492	389	403	393	328		376	504
16	489	519	486	575	488	390	411 398	412 434	331	366 378	375 375	520 502
17 18	489 511	531 533	502 524	624 593	481	375 374	400	427	334	392		523
19	510	530	543	590	460	362	391	442	332	396		511
20	506	538	556	589	437	368	389	443	325	400		495
21	491 498	535 532	556 521	616	442	380 392	403	428 425	325	399 396	407	488 487
23	493	541	521	598	467	395	450	427	328	402	427	471
24	509	534	520	607	469	405	441	439	336	389	443	487
25	501	518	516	618	495	413	437	445	331	389	452	476
26	494	521	513	621	502 504	420 417	445	446 459	395 338	392 390	485	484 484
27 28	502 500	524 522	522 527	628 633	488	414	443	438	342	403	466	509
29	494		517	647		432	453	432	344	406	471	513
30 31	483 489	509	510 515	674 692		434	457	430	341	396 409	470	507
MIN	512 451	546 487	556 477	692 510	683 437	457 362	457 389	459 393	395 325	409 334	485 366	5 3 5 470
		- 1	FMPERATUR	RE, WATER		WATER YE	AR OCTOR	BER 1980 TO S	EPTEM	BER 1981		
DAY	ост	NOV	TEMPERATUR DEC	≺E, WATER			AR OCTOB	BER 1980 TO S	JUN	BER 1981 JUL	AUG	SEP
		NOV	DEC	JAN	FE8	MAR	APR	MAY	JUN	JUL		
1	28.0				01	NCE-DAILY				JUL 28.0	AUG 30.0 31.0	SEP 30.0 29.0
1 2 3	28.0 27.0 27.0	NOV 20.0 20.0 20.0	DEC 12.0 12.0 11.0	JAN 8.0 8.0 8.0	FEB7.0	MAR 9.0 9.0 10.0	APR 14.0 14.0 15.0	MAY 21.0 21.0 21.0	JUN 22.0 21.0 21.0	JUL 28.0 28.0 28.0	30.0 31.0 32.0	30.0 29.0 30.0
1 2	28.0 27.0	NOV 0.05	DEC 12.0 12.0	JAN 8.0 8.0	FEB	MAR 9.0 9.0	APR 14.0 14.0	MAY 21.0 21.0	JUN 22.0 21.0	28.0 28.0 28.0	30.0	30.0 29.0
1 2 3 4 5	28.0 27.0 27.0 26.0	NOV 20.0 20.0 20.0 20.0 20.0	DEC 12.0 12.0 11.0 11.0	JAN 8.0 8.0 8.0 8.0	7.0 7.0	MAR 9.0 9.0 10.0 11.0	APR 14.0 14.0 15.0 16.0	MAY 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0	28.0 28.0 28.0 28.0 28.0	30.0 31.0 32.0 31.0 30.0	30.0 29.0 30.0 30.0 31.0
1 2 3 4	28.0 27.0 27.0 26.0	NOV 20.0 20.0 20.0 20.0	DEC 12.0 12.0 11.0 11.0	JAN 8.0 8.0 8.0 8.0	7.0 7.0	MAR 9.0 9.0 10.0	APR 14.0 14.0 15.0 16.0	MAY 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0	28.0 28.0 28.0 28.0 28.0 28.0	30.0 31.0 32.0 31.0 30.0	30.0 29.0 30.0 30.0 31.0
1 2 3 4 5	28.0 27.0 27.0 26.0 24.0 24.0 23.0	NOV 20.0 20.0 20.0 20.0 20.0 20.0 21.0 21.0	DEC 12.0 12.0 11.0 11.0 11.0	JAN 8.0 8.0 8.0 8.0 9.0	7.0 7.0 7.0 7.0 10.0	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0	APR 14.0 14.0 15.0 16.0 15.0 15.0 16.0	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0 23.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0	30.0 31.0 32.0 31.0 30.0	30.0 29.0 30.0 30.0 31.0 31.0
1 2 3 4 5	28.0 27.0 27.0 26.0 24.0 24.0	NOV 20.0 20.0 20.0 20.0 20.0 20.0	DEC 12.0 12.0 11.0 11.0 11.0	JAN 8.0 8.0 8.0 8.0 9.0	7.0 7.0 7.0 7.0 8.0	MAR 9.0 9.0 10.0 11.0 11.0	APR 14.0 14.0 15.0 16.0 15.0	MAY 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0	30.0 31.0 32.0 31.0 30.0	30.0 29.0 30.0 30.0 31.0
1 2 3 4 5 6 7 8 9	28.0 27.0 27.0 26.0 24.0 23.0 23.0 23.0	NOV 20.0 20.0 20.0 20.0 20.0 21.0 21.0 21.0	DEC 12.0 12.0 11.0 11.0 11.0 12.0 12.0 12.0	JAN 8.0 8.0 8.0 9.0 10.0 9.0 9.0 8.0 8.0	7.0 7.0 7.0 7.0 7.0 9.0 9.0	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 11.0	APR 14.0 14.0 15.0 16.0 15.0 15.0 15.0 18.0 18.0	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0 23.0 23.0 24.0 25.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0	30.0 31.0 32.0 31.0 30.0	30.0 29.0 30.0 31.0 31.0 31.0 29.0 29.0
1 2 3 4 5 6 7 8 9 10	28.0 27.0 27.0 26.0 24.0 24.0 23.0 23.0 23.0	NOV 20.0 20.0 20.0 20.0 20.0 21.0 21.0 21.0	DEC 12.0 11.0 11.0 11.0 12.0 12.0 12.0 12.0	JAN 8.0 8.0 8.0 8.0 9.0 10.0 9.0 8.0 8.0 8.0	FEB 7.0 7.0 7.0 8.0 8.0 10.0 9.0 9.0 9.0 8.0	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 11.0 11.	APR 14.0 15.0 16.0 15.0 15.0 15.0 15.0 15.0 16.0 18.0 18.0	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0 23.0 23.0 23.0 25.0 25.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0	30.0 31.0 32.0 31.0 330.0 20.0 30.0 30.0 29.0 29.0	30.0 29.0 30.0 31.0 31.0 30.0 30.0 29.0 29.0
1 2 3 4 5 6 7 8 9 10	28.0 27.0 27.0 26.0 24.0 23.0 23.0 23.0 23.0	NOV 20.0 20.0 20.0 20.0 20.0 21.0 21.0 21.0	DEC 12.0 12.0 11.0 11.0 11.0 12.0 12.0 12.0	JAN 8.0 8.0 8.0 8.0 9.0 10.0 9.0 9.0 8.0 8.0 8.0 7.0	FEB 7.0 7.0 7.0 8.0 8.0 9.0 9.0 9.0 9.0	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 11.0 12.0 12.0 12.0	APR 14.0 15.0 16.0 15.0 15.0 15.0 15.0 16.0 18.0 18.0 17.0 18.0 19.0	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0 23.0 23.0 23.0 25.0 25.0 25.0 26.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0	30.0 31.0 32.0 31.0 330.0 20.0 30.0 30.0 29.0 29.0 29.0	30.0 29.0 30.0 30.0 31.0 31.0 30.0 29.0 29.0
1 2 3 4 5 6 7 8 9 10	28.0 27.0 27.0 26.0 24.0 24.0 23.0 23.0 23.0	NOV 20.0 20.0 20.0 20.0 20.0 21.0 21.0 21.0	DEC 12.0 11.0 11.0 11.0 12.0 12.0 12.0 12.0	JAN 8.0 8.0 8.0 8.0 9.0 10.0 9.0 8.0 8.0 8.0	FEB 7.0 7.0 7.0 8.0 8.0 10.0 9.0 9.0 9.0 8.0	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 11.0 11.	APR 14.0 15.0 16.0 15.0 15.0 15.0 15.0 15.0 17.0 18.0	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0 23.0 23.0 23.0 25.0 25.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0	30.0 31.0 32.0 31.0 330.0 20.0 30.0 30.0 29.0 29.0	30.0 29.0 30.0 31.0 31.0 30.0 30.0 29.0 29.0
1 2 3 4 5 6 7 8 9 10	28.0 27.0 27.0 26.0 24.0 24.0 23.0 23.0 23.0 23.0 22.0	NOV 20.0 20.0 20.0 20.0 20.0 21.0 21.0 21.	DEC 12.0 12.0 11.0 11.0 11.0 12.0 12.0 12.	JAN 8.0 8.0 8.0 8.0 9.0 10.0 9.0 9.0 8.0 8.0 7.0 7.0 7.0	FEB 7.0 7.0 7.0 8.0 8.0 9.0 9.0 8.0 9.0 8.0 9.0 8.0 9.0 8.0 9.0 8.0 9.0 8.0 9.0 8.0 9.0	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 11.0 11.	APR 14.0 15.0 16.0 15.0 15.0 16.0 18.0 18.0 17.0 18.0 19.0 20.0 20.0	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 22.0 23.0 23.0 23.0 23.0 24.0 25.0 25.0 25.0 25.0 26.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0	30.0 31.0 32.0 31.0 30.0 30.0 30.0 30.0 30.0 29.0 29.0 29.0 29.0 29.0 29.0	30.0 29.0 30.0 30.0 31.0 31.0 30.0 29.0 29.0 29.0 30.0 30.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	28.0 27.0 27.0 26.0 24.0 24.0 23.0 23.0 23.0 22.0 22.0 22.0	NOV 20.0 20.0 20.0 20.0 20.0 21.0 21.0 21.0	DEC 12.0 11.0 11.0 11.0 12.0 12.0 12.0 12.	JAN 8.0 8.0 8.0 8.0 9.0 10.0 9.0 8.0 8.0 8.0 7.0 7.0 7.0 7.0	FEB 7.0 7.0 7.0 7.0 8.0 8.0 9.0 9.0 9.0 8.0 9.0 8.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 12.0 12.0 12.0 12.0	APR 14.0 14.0 15.0 16.0 15.0 15.0 15.0 15.0 17.0 18.0 19.0 20.0 20.0	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0 23.0 23.0 24.0 25.0 25.0 25.0 25.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0	30.0 31.0 32.0 31.0 30.0 20.0 30.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	30.0 29.0 30.0 31.0 31.0 30.0 29.0 29.0 29.0 30.0 30.0 30.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	28.0 27.0 27.0 26.0 24.0 23.0 23.0 23.0 23.0 22.0	20.0 20.0 20.0 20.0 20.0 20.0 21.0 21.0	DEC 12.0 12.0 11.0 11.0 11.0 12.0 12.0 12.	JAN 8.0 8.0 8.0 8.0 9.0 10.0 9.0 9.0 8.0 8.0 7.0 7.0 7.0	FEB 7.0 7.0 7.0 8.0 8.0 9.0 9.0 8.0 9.0 8.0 9.0 8.0 9.0 8.0 9.0 8.0 9.0 8.0 9.0 8.0 9.0	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 11.0 11.	APR 14.0 15.0 16.0 15.0 15.0 16.0 18.0 18.0 17.0 18.0 19.0 20.0 20.0	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 22.0 23.0 23.0 23.0 23.0 24.0 25.0 25.0 25.0 25.0 26.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0	30.0 31.0 32.0 31.0 30.0 30.0 30.0 30.0 30.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	30.0 29.0 30.0 31.0 31.0 30.0 30.0 29.0 29.0 30.0 30.0 30.0 30.0 30.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	28.0 27.0 27.0 26.0 24.0 24.0 23.0 23.0 23.0 23.0 22.0 22.0 22.0 22.0	NOV 20.0 20.0 20.0 20.0 20.0 21.0 21.0 21.	DEC 12.0 11.0 11.0 11.0 12.0 12.0 12.0 12.	JAN 8.0 8.0 8.0 8.0 9.0 10.0 9.0 8.0 8.0 8.0 7.0 7.0 7.0 7.0	FEB 7.0 7.0 7.0 7.0 8.0 8.0 9.0 9.0 9.0 8.0 8.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 12.0 12.0 12.0 12.0	APR 14.0 14.0 15.0 16.0 15.0 15.0 15.0 16.0 18.0 18.0 17.0 18.0 20.0 20.0 20.0	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0 23.0 23.0 24.0 25.0 25.0 25.0 26.0 26.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0	30.0 31.0 32.0 31.0 30.0 30.0 30.0 30.0 30.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	30.0 29.0 30.0 31.0 31.0 30.0 29.0 29.0 29.0 30.0 30.0 30.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	28.0 27.0 27.0 26.0 24.0 23.0 23.0 23.0 23.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0	NOV 20.0 20.0 20.0 20.0 20.0 21.0 21.0 21.	DEC 12.0 11.0 11.0 11.0 12.0 12.0 12.0 12.	JAN 8.0 8.0 8.0 8.0 9.0 10.0 9.0 9.0 8.0 8.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	FEB 7.0 7.0 7.0 7.0 8.0 8.0 10.0 9.0 9.0 8.0 9.0 8.0 9.0 10.0 10.0 9.0 9.0	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 11.0 11.	APR 14.0 14.0 15.0 16.0 15.0 15.0 15.0 17.0 18.0 18.0 19.0 20.0 20.0 20.0 20.0 21.0	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0 23.0 23.0 24.0 25.0 25.0 26.0 25.0 26.0 26.0 26.0 26.0 27.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0	30.0 31.0 32.0 31.0 30.0 30.0 30.0 30.0 30.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	30.0 29.0 30.0 31.0 31.0 30.0 30.0 29.0 29.0 30.0 30.0 30.0 30.0
1 2 3 4 5 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	28.0 27.0 27.0 26.0 24.0 24.0 23.0 23.0 23.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0	NOV 20.0 20.0 20.0 20.0 20.0 21.0 21.0 21.	DEC 12.0 11.0 11.0 11.0 12.0 12.0 12.0 12.	JAN 8.0 8.0 8.0 8.0 9.0 10.0 9.0 8.0 8.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	FEB 7.0 7.0 7.0 7.0 8.0 8.0 9.0 9.0 9.0 8.0 9.0 9.0 10.0 10.0 10.0	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 12.0 12.0 12.0 11.0 11	APR 14.0 14.0 15.0 16.0 15.0 15.0 15.0 16.0 18.0 18.0 20.0 20.0 20.0 20.0 20.0 21.0	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0 23.0 24.0 25.0 25.0 25.0 25.0 26.0 25.0 26.0 26.0 27.0 28.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0	30.0 31.0 32.0 31.0 30.0 20.0 30.0 30.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	30.0 29.0 30.0 31.0 31.0 30.0 29.0 29.0 29.0 30.0 30.0 30.0 29.0 29.0 29.0 29.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	28.0 27.0 27.0 26.0 24.0 24.0 23.0 23.0 23.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0	NOV 20.0 20.0 20.0 20.0 21.0 21.0 21.0 21.	DEC 12.0 11.0 11.0 11.0 12.0 12.0 12.0 12.	JAN 8.0 8.0 8.0 8.0 9.0 10.0 9.0 8.0 8.0 8.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7	FEB 7.0 7.0 7.0 7.0 8.0 8.0 10.0 9.0 9.0 9.0 8.0 8.0 9.0 10.0 10.0 10.0 10.0 10.0 8.0 8.0	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 12.0 12.0 12.0 12.0	APR 14.0 14.0 15.0 16.0 15.0 15.0 15.0 16.0 18.0 17.0 18.0 20.0 20.0 20.0 20.0 21.0 21.0	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0 23.0 23.0 25.0 25.0 25.0 25.0 26.0 25.0 26.0 26.0 27.0 28.0 28.0 28.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 31.0 31.0 31.0 31.0	30.0 31.0 32.0 31.0 30.0 20.0 30.0 30.0 29.0 20.0 2	30.0 29.0 30.0 31.0 31.0 30.0 29.0 29.0 29.0 30.0 30.0 30.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 2
1 2 3 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	28.0 27.0 27.0 26.0 24.0 24.0 23.0 23.0 23.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0	NOV 20.0 20.0 20.0 20.0 20.0 21.0 21.0 21.	DEC 12.0 11.0 11.0 11.0 12.0 12.0 12.0 12.	JAN 8.0 8.0 8.0 8.0 9.0 10.0 9.0 8.0 8.0 8.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7	FEB 7.0 7.0 7.0 7.0 8.0 8.0 9.0 9.0 9.0 8.0 9.0 9.0 10.0 9.0 10.0 10.0	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 12.0 12.0 12.0 12.0	APR 14.0 14.0 15.0 16.0 15.0 15.0 15.0 15.0 20.0 20.0 20.0 20.0 20.0 21.0 21.0	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0 23.0 23.0 25.0 25.0 25.0 25.0 26.0 25.0 26.0 27.0 28.0 28.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 31.0 31.0 31.0 31.0	30.0 31.0 32.0 31.0 30.0 30.0 30.0 20.0 30.0 29.0 20.0	30.0 29.0 30.0 31.0 31.0 30.0 29.0 29.0 29.0 30.0 30.0 30.0 27.0 27.0 26.0 26.0 25.0
1 2 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	28.0 27.0 26.0 24.0 24.0 23.0 23.0 23.0 22.0 20.0	NOV 20.0 20.0 20.0 20.0 21.0 21.0 21.0 21.	DEC 12.0 11.0 11.0 11.0 12.0 12.0 12.0 12.	JAN 8.0 8.0 8.0 8.0 9.0 10.0 9.0 8.0 8.0 8.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7	FEB 7.0 7.0 7.0 7.0 8.0 8.0 9.0 9.0 9.0 8.0 9.0 9.0 10.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 12.0 12.0 12.0 12.0	APR 14.0 14.0 15.0 16.0 15.0 15.0 15.0 16.0 18.0 17.0 18.0 20.0 20.0 20.0 20.0 21.0 21.0 21.0 21	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0 23.0 23.0 25.0 25.0 25.0 26.0 25.0 26.0 26.0 27.0 28.0 28.0 27.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 29.0 29.0 29.0 31.0 31.0 31.0 31.0	30.0 31.0 32.0 31.0 30.0 30.0 30.0 20.0 30.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 30.0	30.0 29.0 30.0 31.0 31.0 30.0 29.0 29.0 29.0 30.0 30.0 30.0 27.0 26.0 26.0 26.0 26.0
1 2 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	28.0 27.0 27.0 26.0 24.0 23.0 23.0 23.0 23.0 22.0 21.0	NOV 20.0 20.0 20.0 20.0 20.0 21.0 21.0 21.	DEC 12.0 11.0 11.0 11.0 12.0 12.0 12.0 12.	JAN 8.0 8.0 8.0 8.0 9.0 10.0 9.0 8.0 8.0 7.0 7.0 7.0 7.0 7.0 7	FEB 7.0 7.0 7.0 7.0 8.0 8.0 10.0 9.0 9.0 8.0 9.0 9.0 10.0 10.0 10.0 10.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 11.0 11.	APR 14.0 14.0 15.0 16.0 15.0 15.0 15.0 16.0 18.0 18.0 20.0 20.0 20.0 20.0 20.0 21.0 21.0 21	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0 23.0 24.0 25.0 26.0 25.0 26.0 26.0 26.0 27.0 28.0 27.0 27.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 31.0 31.0 31.0 31.0 31.0 31.0	30.0 31.0 32.0 31.0 30.0 30.0 30.0 30.0 30.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 30.0	30.0 29.0 30.0 31.0 31.0 30.0 29.0 29.0 29.0 30.0 30.0 29.0 29.0 29.0 27.0 26.0 26.0 26.0 26.0 26.0 26.0
1 2 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	28.0 27.0 26.0 24.0 24.0 23.0 23.0 23.0 22.0 20.0	NOV 20.0 20.0 20.0 20.0 21.0 21.0 21.0 21.	DEC 12.0 11.0 11.0 11.0 12.0 12.0 12.0 12.	JAN 8.0 8.0 8.0 8.0 9.0 10.0 9.0 8.0 8.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7	FEB 7.0 7.0 7.0 7.0 8.0 8.0 9.0 9.0 9.0 8.0 9.0 9.0 10.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 12.0 12.0 12.0 12.0	APR 14.0 14.0 15.0 16.0 15.0 15.0 15.0 15.0 20.0 20.0 20.0 20.0 20.0 21.0 21.0 21	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0 23.0 23.0 25.0 25.0 25.0 26.0 25.0 26.0 27.0 28.0 27.0 27.0 27.0 27.0 28.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 29.0 29.0 29.0 31.0 31.0 31.0 31.0 31.0 31.0	30.0 31.0 32.0 31.0 30.0 30.0 30.0 30.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 30.0	30.0 29.0 30.0 31.0 31.0 31.0 30.0 29.0 29.0 29.0 30.0 30.0 27.0 26.0 26.0 26.0 26.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27
1 2 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	28.0 27.0 26.0 24.0 24.0 23.0 23.0 23.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	NOV 20.0 20.0 20.0 20.0 21.0 21.0 21.0 21.	DEC 12.0 11.0 11.0 11.0 12.0 12.0 12.0 12.	JAN 8.0 8.0 8.0 8.0 9.0 10.0 9.0 8.0 8.0 8.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7	FEB 7.0 7.0 7.0 7.0 8.0 8.0 10.0 9.0 9.0 9.0 8.0 8.0 9.0 10.0 10.0 10.0 10.0 10.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 11.0 12.0 12.0 12.0	APR 14.0 14.0 15.0 16.0 15.0 15.0 16.0 18.0 17.0 18.0 20.0 20.0 20.0 20.0 20.0 21.0 21.0 21	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0 23.0 23.0 25.0 25.0 25.0 26.0 25.0 26.0 27.0 28.0 27.0 27.0 27.0 27.0 28.0 27.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 29.0 29.0 29.0 31.0 31.0 31.0 31.0 31.0 31.0 31.0 31.0 31.0	30.0 31.0 32.0 31.0 30.0 30.0 30.0 30.0 30.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 30.0	30.0 29.0 30.0 31.0 31.0 30.0 29.0 29.0 29.0 30.0 30.0 27.0 27.0 26.0 26.0 27.0 26.0 27.0 27.0 26.0 27.0 26.0
1 2 3 4 4 5 5 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	28.0 27.0 27.0 26.0 24.0 24.0 23.0 23.0 23.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	NOV 20.0 20.0 20.0 20.0 21.0 21.0 21.0 21.	DEC 12.0 11.0 11.0 11.0 12.0 12.0 12.0 12.	JAN 8.0 8.0 8.0 8.0 9.0 10.0 9.0 8.0 8.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7	FEB 7.0 7.0 7.0 7.0 8.0 8.0 9.0 9.0 9.0 8.0 9.0 9.0 10.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 12.0 12.0 12.0 12.0	APR 14.0 14.0 15.0 16.0 15.0 15.0 15.0 15.0 20.0 20.0 20.0 20.0 20.0 21.0 21.0 21	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0 23.0 23.0 25.0 25.0 25.0 26.0 25.0 26.0 27.0 28.0 27.0 27.0 27.0 27.0 28.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 29.0 29.0 29.0 31.0 31.0 31.0 31.0 31.0 31.0 31.0	30.0 31.0 32.0 31.0 30.0 30.0 30.0 30.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 30.0 30.0 30.0 30.0 30.0	30.0 29.0 30.0 31.0 31.0 31.0 30.0 29.0 29.0 29.0 30.0 30.0 27.0 26.0 26.0 26.0 27.0 27.0 27.0 26.0 27.0 27.0 26.0
1 2 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	28.0 27.0 26.0 24.0 24.0 23.0 23.0 23.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	NOV 20.0 20.0 20.0 20.0 21.0 21.0 21.0 21.	DEC 12.0 11.0 11.0 11.0 12.0 12.0 12.0 12.	JAN 8.0 8.0 8.0 8.0 9.0 10.0 9.0 8.0 8.0 8.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7	FEB 7.0 7.0 7.0 7.0 8.0 8.0 10.0 9.0 9.0 9.0 8.0 8.0 9.0 10.0 10.0 10.0 10.0 10.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	MAR 9.0 9.0 10.0 11.0 11.0 11.0 11.0 11.0 12.0 12.0 12.0	APR 14.0 14.0 15.0 16.0 15.0 15.0 16.0 18.0 17.0 18.0 20.0 20.0 20.0 20.0 20.0 21.0 21.0 21	MAY 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	JUN 22.0 21.0 21.0 22.0 23.0 23.0 23.0 23.0 25.0 25.0 25.0 26.0 25.0 26.0 27.0 28.0 27.0 27.0 27.0 27.0 28.0 27.0	28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 29.0 29.0 29.0 31.0 31.0 31.0 31.0 31.0 31.0	30.0 31.0 32.0 31.0 30.0 30.0 30.0 30.0 30.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 30.0	30.0 29.0 30.0 31.0 31.0 30.0 29.0 29.0 29.0 30.0 30.0 27.0 27.0 26.0 26.0 27.0 26.0 27.0 27.0 26.0 27.0 26.0

MISSISSIPPI RIVER MAIN STEM

			0737452	5 MISSIS	SSIPPI F	RIVER AT	BELLE	CHASSE,	LACo	ontinued					
			CHLORIDE,	DISSOLVE	D (MG/L) . WATE	R YEAR	остовек	1980 T	O SEPTE	MBER 1	981			
DAY	ост	NOV	DEC	JAN	FEB		AR	APR	MAY	JU	N	JUL	AUG	SEP	
1	34	24												-	
2	34	36 38	40	44	70		41	37	30	5		24	31	36	
3	38	38					40	32	30	2		55	30	38	
4	32	37	46 45	48	48		38	33	30	2		28	28	36	
5		38	42	55	54 56		40 30	33 35	32 30	3		20	29	35 34	
	-									,	,		20	34	
6	34	38	37	56	54		30	36	36	1.		20		38	
7 8	38	44	36	58	61		29	30	23	2		50		42	
9	40 38	45	40	60	50		29	31	28	5		20	28	40	
10	33	44	36 38	46	44		33	32	30	2		20	30	46	
10	33	40	38	52	42		30	30	30	2	4	51	32	38	
11	33	34	30	53	39		31	32	25	2	4	24	34	45	
12		32	34	46	40		30	34	55	23	2		33	42	
13	39	36	34	44	36		32	32	30	24	4		27	38	
14		40	34	50	35		32	28	27	24	4		30	34	
15		34	36	48	34	-	31	28	24	22	2		29	36	
16	40	36	38	51	35		30	29	30	24	4	26	28	40	
17	36	39	37	60	35		28	27	34			25	28	36	
18	38	40	42	48	33		30	29	30	20)	26		34	
19	38	36	44	48	33		27	28	31	2		26		° 36	
20	40	36	45	54	34		26	27	30	20		26		34	
21	34	40	50	51	38		29	27	29	19		20		2.0	
22	36	40	38	55	38		29	32	30	24		29	33	30 35	
23	35	37	38	46	44		30	36	30	23		32			
24	41	38	40	46	40		34	34	31	20		33	36 35	31 34	
25	39	36	40	54	50		34	34	31	21		30	34	32	
26	36	38	34	56	54		35	34	29	2.0				2.0	
27	38	38	40	59	51		34	35	32	30		34	40	34	
28	34	40	40	60	50		34	30	29	26		31	37	34	
29	34	33	36	64			37	34	32	22		35 35	34	40	
30	34	37	37	67			37	32	28	41		26	36	36	
31	34		42	69			36		26			28	38		
MAX	41	45	50	60	7.0										
MIN	32	32	30	69 42	70 33		1 26	37 27	36	41		35 20	40 27	46 30	
								-				20	21	30	
31.2						ANALYSES	S. OCTO	BER 1980	TO JU	LY 1981					
TIME					15,80 1400		6,80		10.81		9•81 1215		3,81 1200		13.81
	AL CELLS/M			1	1700	1	1200	4	005	ä	2100	-	2700	1	500
DIVE	RSITY: DI	VISION LASS			1.5		1.3		1.0		1.5		1.3		1.1
		ORDER			1.8		1.4		1.7		2.1		1.9		2.1
		.FAMILY			2.0		1.8		2.0		2.8		2.4		2.2
		GENUS			2.6		2.8		2.7		3.4		3.0		2.4
086	SANISM			CELLS	PER-	CELLS	PER-	CELLS	PER-	CELLS	PER-	CELLS	PER-	CELLS	PER-
CHL C	ROPHYTA (OROPHYCEA ILOROCOCCA	E	GAE)	/ML	CENT	/ML	CENT	/ML	CENT	/ML	CENT	/ML	CENT	/ML	CENT

.CHLOROPHYCEAE													
CHLOROCOCCALES													
CHARACIACEAE													
SCHROEDERIA		-		-		-		-	28	1	14	- 1	
HYDRODICTYACEAE									2.0		14		
PEDIASTRUM		-	65	5		-		-		-	-	-	
MICRACTINIACEAE											1000		
MICRACTINIUM		-		-	110	3		-		-		-	
OOCYSTACEAE													
ANKISTRODESMUS	39	2		-	56	1	42	2	28	1		-	
DICTYOSPHAERIUM		-	26	2		-	250	12	42	2		-	
KIRCHNERIELLA		-	26	2			14	1		-		-	
SELENASTRUM	13	1		-		-				-		-	
TETRAEDRON	13	1		-		-		-		-		-	
SCENEDESMACEAE													
ACTINASTRUM		-	100	9		-		-		-		-	
SCENEDESMUS	410#	24	230#	19	110	3	110	5	220	8	55	4	
TETRASTRUM	100	6	100	9	220	5	56	3		-		-	
ULOTRICHALES													
ULOTRICHACEAE													
ULOTHRIX		-		-	110	3		_				5.00	

MISSISSIPPI RIVER MAIN STEM

07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO JULY 1981

DATE TIME		15,80		6,80		10,81		9,81		3,81		13,81
ORGANISM	CELLS /ML	PER- CENT										
CHLOROPHYTA (GREEN ALGAE) (CON	TINUED)											
.CHLOROPHYCEAE (CONTINUED)												
VOLVOCALES												
CHLAMYDOMONADACEAE												
CHLAMYDOMONAS	13	1	13	1	420	10	7.0	3	42	2		-
PHACOTACFAE										-		
PTEROMONAS		-		-		-		-		-	14	1
CHRYSOPHYTA												
•BACILLARIOPHYCEAE												
CENTRALES												
COSCINODISCACEAE												
· · · · COSCINODISCUS		_	22	325	20	1			7.0			
····CYCLOTELLA	140	8	200#	16	28 2100#			16	70	3	14	1
MELOSIRA	640#		360#		560	13	320# 380#		880#		82	6
STEPHANODISCUS		-	300#	-	56	1	370*	10	360	13	140	9
PENNALES					50			98	3.5			-
ACHNANTHACEAE												
ACHNANTHES		-		_	28	1		-		-		-
COCCONEIS		-		-		-		-	28	1		-
RHOICOSPHENIA		-		-		-		-		-	14	1
CYMHFLLACEAE											•	
AMPHORA		-		-		-		-	28	1		-
FRAGILARIACEAE												
ASTERIONELLA		-		-	84	5	42	2		-		-
····FRAGILARIA		-		-		-	28	1	110	4	110	7
SYNEDRA		-		-	56	1	14	1	56	2		-
GYROSIGMA					2.0							
NAVICULA		-		-	28	1		-		-		-
NITZSCHIACEAE	77	-		-	28	1	14	1	56	5		-
NITZSCHIA	26	2		.2	0.4	2	1.00	0	150			
SURIRELLACEAE	20	2		_	84	S	180	9	150	6	14	1
SURIRELLA		_		4	28	1	56	3				
					20	1	50	3		-		-
CRYPTOPHYTA (CRYPTOMONADS)												
· CRYPTOPHYCEAF												
CRYPTOMONADALES												
CRYPTOMONADACEAE												
CRYPTOMONAS	26	5		-	84	2		-		-		-
CYANOPHYTA (BLUE-GREEN ALGAE)												
·CYANOPHYCEAE												
CHROOCOCCALES												
· · · CHROOCOCCACE AE												
· · · · ANACYSTIS	77	5	78	6	20					21		20
HORMOGONALES	1.1	5	10	0	28	1		-	560#	21	440#	30
NOSTOCACEAE												
NODULARIA		-		-		_	280	13		2	10022	_
OSCILLATORIACEAE							200	13	7.7	100		-
OSCILLATORIA	180	11		-		-	220	11		-	590#	40
FILE ENORUNT.								35			-,,,,,	
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
EUGLENALES												
EUGLENACEAE TRACHELOMONAS		4								2.		
TRACTELOMONAS		-		-		-		-	28	1		-

NOTE: # - DOMINANT ORGANISM: EQUAL 10 OR GREATER THAN 15%

MISSISSIPPI RIVER MAIN STEM

07374550 MISSISSIPPI RIVER AT VENICE, LA (CE 01480)

LOCATION.--Lat 29°16'33", long 89°21'10", T.21 S., R.31 E., Plaquemines Parish, Hydrologic Unit 08090100, in center of river at Venice and at mile 10.7 (17.2 km).

DRAINAGE AREA. -- Not determined.

PERIOD OF RECORD. -- Water years 1973 to current year.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (U 4HOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM. TOTAL, IMMED. (COLS. PER 100 ML)
001	1430	769	7.2	22.5	5	10	<1.0	7.5	33	3.0	K1800
NOV 0/	1130	1760	7.4	20.0	10	10	<1.0	7.2	20	7.0	K3000
DEC 10	1345	1610	7.4	11.5	5	65	<1.0		50		2000
JAN 16	1145	2790	7.2	7.5	5	8.0	<1.0	11.4	28	2.4	700
FEB 03	1115	4720	7.4	7.0	5	5.0	<1.0	11.3	0	2.6	320
26 MAR	1140										500
10	1230	428	6.9		5	70	<1.0	11.0	31	6.6	3000
21 MAY	1000	386	7.0	20.5	10	15	<1.0	7.5	41	7.1	620
06	1615	455	6.9	20.5	5	65	<1.0	6.8	29	1.3	
04 JUL	1550	355	7.4	21.5	5	500	<1.0	6.1	39	1.2	900
15 AUG	1330	362	7.3	29.5	5	120	<1.0	5.2	52	.2	177
03 SEP	1230	420	7.0	32.0	5	25	<1.0	5.8	22	.2	340
01	0700	490		29.0	5	20	<1.0	6.2	50	1.4	5500
DATE	COLI- FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML)	STRFP- TOCOCCI FFCAL+ KF AGAR (COLS- PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS; NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS. RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
oct	FORM+ FECAL+ 0.7 UM-MF (COLS./ 100 ML)	TOCOCCI FFCAL, KF AGAR (COLS. PER	NESS (MG/L AS CACO3)	NESS+ NONCAR- BONATE (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	FIELD (MG/L AS CACO3)	SOLVED (MG/L AS SO4)	RIDE+ DIS- SOLVED (MG/L AS CL)	RESIDUE AT 105 DEG. C: SUS- PENDED (MG/L)	GEN, NITRATE TOTAL (MG/L AS N)
OCT 14	FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML)	TOCOCCI FFCAL, KF AGAR (COLS, PER 100 ML)	NESS (MG/L AS CACO3)	NESS+ NONCAR- BONATE (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	FIELD (MG/L AS CACO3)	DIS- SOLVED (MG/L AS SO4)	RIDE. DIS- SOLVED (MG/L AS CL)	RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	GEN, NITRATE TOTAL (MG/L AS N)
OCT 14 NOV 07 DEC	FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML)	TOCOCCI FFCAL+ KF AGA+ (COLS- PER 100 ML)	NESS (MG/L AS CACO3) 180 280	NESS, NONCAR- BONATE (MG/L CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	LINITY FIELD (MG/L AS CACO3)	DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	GEN, NITRATE TOTAL (MG/L AS N)
OCT 14 NOV 07 DEC 10	FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML)	TOCOCCI FFCAL, KF AGAR (COLS, PER 100 ML)	NESS (MG/L AS CAC03) 180 280 240	NESS, NONCAR- BONATE (MG/L CACO3) 61 150	DIS- SOLVED (MG/L AS CA) 42 50 44	SIUM, DIS- SOLVED (MG/L AS MG) 18 38 31	LINITY FIELD (MG/L AS CACO3) 118 127	DIS- SOLVED (MG/L AS SO4) 73 120	RIDE, DIS- SOLVED (MG/L AS CL) 130 430 360	RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	GEN, NITRATE TOTAL (MG/L AS N) 1.1 .86
OCT 14 NOV 07 DEC 10 JAN 16 FEH	FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML) 340 	TOCOCCI FFCAL, KF AGAR (COLS, PER 100 ML)	NESS (MG/L AS CAC03) 180 280 240	NESS, NONCAR- BONATE (MG/L CACO3) 61 150 130 270	DIS- SOLVED (MG/L AS CA) 42 50 44 57	SIUM, DIS- SOLVED (MG/L AS MG) 18 38 31	LINITY FIELD (MG/L AS CACO3) 118 127 112	73 120 130	RIDE + DIS - SOLVED (MG/L AS CL) 130 430 360 760	RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	GEN, NITRATE TOTAL (MG/L AS N) 1.1 .86 .84
OCT 14 NOV 07 DEC 10 JAN 16 FEB 03 26	FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML)	TOCOCCI FFCAL, KF AGAR (COLS, PER 100 ML)	NESS (MG/L AS CAC03) 180 280 240	NESS, NONCAR- BONATE (MG/L CACO3) 61 150	DIS- SOLVED (MG/L AS CA) 42 50 44	SIUM, DIS- SOLVED (MG/L AS MG) 18 38 31	LINITY FIELD (MG/L AS CACO3) 118 127	DIS- SOLVED (MG/L AS SO4) 73 120	RIDE, DIS- SOLVED (MG/L AS CL) 130 430 360	RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	GEN, NITRATE TOTAL (MG/L AS N) 1.1 .86
OCT 14 NOV 07 DEC 10 JAN 16 FEH 03 26 MAR 10	FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML) 340 K450 K72	TOCOCCI FFCAL, KF AGAR (COLS, PER 100 ML)	NESS (MG/L AS CAC03) 180 280 240 400 580	NESS, NONCAR- BONATE (MG/L CACO3) 61 150 130 270 430	DIS- SOLVED (MG/L AS CA) 42 50 44 57	SIUM, DIS- SOLVED (MG/L AS MG) 18 38 31 62	LINITY FIELD (MG/L AS CACO3) 118 127 112 125	73 120 130	RIDE + DIS - SOLVED (MG/L AS CL) 130 430 360 760	RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	GEN, NITRATE TOTAL (MG/L AS N) 1.1 .86 .84 1.5
OCT 14 NOV 07 DEC 10 JAN 16 FEB 03 26 MAR 10 APR 21	FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML) 340 K450 K72 K50 K60	TOCOCCI FFCAL, KF AGAR (COLS, PER 100 ML) 580 K4 <10 K30	NESS (MG/L AS CACO3) 180 280 240 400 580	NESS, NONCAR- BONATE (MG/L CACO3) 61 150 130 270 430	DIS- SOLVED (MG/L AS CA) 42 50 44 57	SIUM, DIS- SOLVED (MG/L AS MG) 18 38 31 62	LINITY FIELD (MG/L AS CACO3) 118 127 112 125	73 120 130 160 240	RIDE - DIS - SOLVED (MG/L AS CL) 130 430 360 760	RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L) 19 19 77 7	GEN, NITRATE TOTAL (MG/L AS N) 1.1 .86 .84 1.5
OCT 14 NOV 07 DEC 10 JAN 16 FEH 03 26 MAR 10 APR 21 MAY 06	FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML) 340 K450 K72 K50 K60	TOCOCCI FFCAL, KF AGAR (COLS, PER 100 ML)	NESS (MG/L AS CACO3) 180 280 240 400 580	NESS, NONCAR- BONATE (MG/L CACO3) 61 150 130 270 430	DIS- SOLVED (MG/L AS CA) 42 50 44 57 77 	SIUM, DIS- SOLVED (MG/L AS MG) 18 38 31 62 95	LINITY FIELD (MG/L AS CACO3) 118 127 112 125 157 	73 120 130 160 240	RIDE, DIS- SOLVED (MG/L AS CL) 130 430 360 760 1200	RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L) 19 17 77 7 11 	GEN, NITRATE TOTAL (MG/L AS N) 1.1 .86 .84 1.5 1.3
OCT 14 NOV 07 DEC 10 JAN 16 FEB 03 26 MAR 10 APR 21 MAY 06 JUN 04	FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML) 340 K450 K72 K50 K60 370	TOCOCCI FFCAL, KF AGAR (COLS. PER 100 ML) 580 K4 <10 K30	NESS (MG/L AS CACO3) 180 280 240 400 580 140	NESS, NONCAR- BONATE (MG/L CACO3) 61 150 130 270 430 48	DIS- SOLVED (MG/L AS CA) 42 50 44 57 77 36 37	SIUM, DIS- SOLVED (MG/L AS MG) 18 38 31 62 95 11	LINITY FIELD (MG/L AS CACO3) 118 127 112 125 157 87 84	73 120 130 160 240 	RIDE - DIS - SOLVED (MG/L AS CL) 130 430 360 760 1200 31 25	RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L) 19 19 77 7 11 180	GEN, NITRATE TOTAL (MG/L AS N) 1.1 .86 .84 1.5 1.3 1.4
OCT 14 NOV 07 DEC 10 JAN 16 FEB 03 26 MAR 10 APR 21 MAY 06 JUN 04 JUN 04 JUL 15	FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML) 340 K450 K72 K50 K60 370 92	TOCOCCI FFCAL, KF AGAR (COLS, PER 100 ML) 580 K4 <10 K30 	NESS (MG/L AS CACO3) 180 280 240 400 580 140 140	NESS, NONCAR- BONATE (MG/L CACO3) 61 150 130 270 430 48 54	DIS- SOLVED (MG/L AS CA) 42 50 44 57 77 36 37 43	SIUM, DIS- SOLVED (MG/L AS MG) 18 38 31 62 95 11	LINITY FIELD (MG/L AS CACO3) 118 127 112 125 157 87 84 98	73 120 130 160 240 62 58	RIDE - DIS - SOLVED (MG/L AS CL) 130 430 360 760 1200 31 25 28	RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L) 19 19 77 7 11 180 17 220	GEN, NITRATE TOTAL (MG/L AS N) 1.1 .86 .84 1.5 1.3 1.4
OCT 14 NOV 07 DEC 10 JAN 16 FEH 03 26 MAR 10 APR 21 MAY 06 JUN 04 JUL	FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML) 340 	TOCOCCI FFCAL, KF AGAR (COLS. PER 100 ML) 580 K4 <10 K30 1200 K50	NESS (MG/L AS CACO3) 180 280 240 400 580 140 140 160 130	NESS, NONCAR- BONATE (MG/L CACO3) 61 150 130 270 430 48 54 63 42	DIS- SOLVED (MG/L AS CA) 42 50 44 57 77 36 37 43 35	SIUM, DIS- SOLVED (MG/L AS MG) 18 38 31 62 95 11 11 13 11	LINITY FIELD (MG/L AS CACO3) 118 127 112 125 157 87 84 98	DIS- SOLVED (MG/L AS SO4) 73 120 130 160 240 62 58 69 54	RIDE + DIS - SOLVED (MG/L AS CL) 130 430 360 760 1200 31 25 28 21	RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L) 19 19 77 7 11 180 17 220 320	GEN, NITRATE TOTAL (MG/L AS N) 1.1 .86 .84 1.5 1.3 1.4 1.2 2.4 2.2

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

MISSISSIPPI RIVER MAIN STEM

07374550 MISSISSIPPI RIVER AT VENICE, LA (CE 01480) -- Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN+ NITRITE TOTAL (MG/L AS N)	NITHO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS. TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)
	AS WI	Д5 147	AS IV	A3 F)	AS ASI	A3 A31	AS BET	AS BET	AS CUI	AS CUT
OCT 14	.01	1.1	1.4	.36	2	1	0	<1	1	2
NOV 07	.07	.93	.74	.29	2	2	0	<1	1	. 2
DEC 10	.02	.86	.82	.21	2	1	0	<1	1	2
JAN 16	.02	1.5	.98	.12	1	1	0	0	0	0
FFR										
03	.01	1.3	1.2	.28		1	0			
MAR 10	.05	1.4	1.0	.28	3	1	0	<1	1	<1
APR 21	.01	1.2	1.5	.30	1	1	0	<1	0	1
MAY 06	.01	2.4	.99	.55	2	1	0	<1	1	<1
JUN 04	.01	2.2	1.3	.62	4	1	0	0	1	0
JUL 15	.02	1.9	1.5	.22	8	2	0	<1	3	1
AUG 03	• 00	1.7	.78	.20	2	2	0	<1	0	<1
SEP 01	.03	1.7	.78	.24	3	2	0	<1	9	<1
V	•05	•••	• 10	• 2 4	3		v		Í	
DATE	CHRO- MIUM. TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER. TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)	IRON. DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PR)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL. TOTAL RECOV- ERABLE (UG/L AS NI)
OCT	MIUM, TOTAL RECOV- ERARLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PR)	DIS- SOLVED (UG/L AS PR)	TOTAL RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS HG)	TOTAL RECOV- ERABLE (UG/L AS NI)
0CT 14	MIUM+ TOTAL RECOV- ERARLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PR)	DIS- SOLVED (UG/L AS PR)	TOTAL RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS HG)	TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 14	MIUM, TOTAL RECOV- ERARLE (UG/L AS CR)	MIUM. HEXA- VALENT. DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU) 16	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PR)	DIS- SOLVED (UG/L AS PR)	TOTAL RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS HG)	TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 14 NOV 07 DEC 10	MIUM+ TOTAL RECOV- ERARLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PR)	DIS- SOLVED (UG/L AS PR)	TOTAL RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS HG)	TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 14 NOV 07 DEC 10 JAN 16	MIUM, TOTAL RECOV- ERARLE (UG/L AS CR)	MIUM. HEXA- VALENT. DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU) 16	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PR)	DIS- SOLVED (UG/L AS PR)	TOTAL RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS HG)	TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 14 NOV 07 DEC 10 JAN 16	MIUM, TOTAL RECOV- ERARLE (UG/L AS CR)	MIUM. HEXA- VALENT. DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PR)	DIS- SOLVED (UG/L AS PB)	TOTAL RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS HG)	TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 14 NOV 07 DEC 10 JAN 16 FFR 03 26	MIUM, TOTAL RECOV- ERARLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU) 16 8 19	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PR) 6 5 8	DIS- SOLVED (UG/L AS PB)	TOTAL RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS HG)	TOTAL RECOV- ERABLE (UG/L AS NI) 8 5 7
OCT 14 NOV 07 DEC 10 JAN 16 FFR 03 26 MAR 10	MIUM. TOTAL RECOV- ERARLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0	TOTAL RECOV- ERABLE (UG/L AS CU) 16 8 19 13	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PR)	DIS- SOLVED (UG/L AS PB)	TOTAL RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS HG)	TOTAL RECOV- ERABLE (UG/L AS NI) 8 5 7 6
OCT 14 NOV 07 DEC 10 JAN 16 FER 03 26 MAR 10 APR 21	MIUM, TOTAL RECOV- ERARLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU) 16 8 19 13 6	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE) 10 10 40 20	TOTAL RECOV- ERABLE (UG/L AS PR) 6 5 8 17 6	DIS- SOLVED (UG/L AS PB) 0 2 0 2	TOTAL RECOV- ERABLE (UG/L AS HG) .2 .1 .2 .1	DIS- SOLVED (UG/L AS HG) .0 .0	TOTAL RECOV- ERABLE (UG/L AS NI) 8 5 7 6 3
OCT 14 NOV 07 DEC 10 JAN 16 FFR 03 26 MAR 10 APR 21 MAY 06	MIUM, TOTAL RECOV- ERARLE (UG/L AS CR) 0 0 20 10	MIUM. HEXA- VALENT. DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU) 16 8 19 13 6 14	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE) 10 10 40 20 	TOTAL RECOV- ERABLE (UG/L AS PR) 6 5 8 17 6 15	DIS- SOLVED (UG/L AS PB)	TOTAL RECOV- ERABLE (UG/L AS HG) .2 .1 .2 .1 .93	DIS- SOLVED (UG/L AS HG) .0 .0	TOTAL RECOV- ERABLE (UG/L AS NI) 8 5 7 6 3 10
OCT 14 NOV 07 DEC 10 JAN 16 FFR 03 26 MAR 10 APR 21 MAY 06 UUN	MIUM, TOTAL RECOV- ERARLE (UG/L AS CR) 0 0 10 20 10	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CU) 16 8 19 13 6 14	DIS- SOLVED (UG/L AS CU)	DIS- SOLVED (UG/L AS FE) 10 10 40 20 30	TOTAL RECOV- ERABLE (UG/L AS PR) 6 5 8 17 6 15	DIS- SOLVED (UG/L AS PB)	TOTAL RECOV- ERABLE (UG/L AS HG) .2 .1 .2 .1 .93 .1	DIS- SOLVED (UG/L AS HG) .0 .0 .0	TOTAL RECOV- ERABLE (UG/L AS NI) 8 5 7 6 3 10
OCT 14 NOV 07 DEC 10 JAN 16 FFR 03 26 MAR 10 APR 21 MAY 06 JUN 04 JUL 15	MIUM, TOTAL RECOV- ERARLE (UG/L AS CR) 0 0 20 10 20 10 10	MIUM. HEXA- VALENT. DIS. (UG/L AS CR) 0 0 0 0 0 0 0 0 0	101AL RECOV- ERABLE (UG/L AS CU) 16 8 19 13 6- 14 10	DIS- SOLVED (UG/L AS CU) 10 5 4 3 6	DIS- SOLVED (UG/L AS FE) 10 10 40 20 30 10	TOTAL RECOV-ERABLE (UG/L AS PR) 6 5 8 17 6 15 0 13	DIS- SOLVED (UG/L AS PB) 0 2 0 0 0	TOTAL RECOV- ERABLE (UG/L AS HG) .2 .1 .2 .1 .93 .1	DIS- SOLVED (UG/L AS HG) .0 .0 .0 .0 .0 .0 .0 .0	TOTAL RECOV- ERABLE (UG/L AS NI) 8 5 7 6 3 10 4 9
OCT 14 NOV 07 DEC 10 JAN 16 FFR 03 26 MAR 10 APR 21 MAY 06 JUN 04 JUL	MIUM, TOTAL RECOV- ERARLE (UG/L AS CR) 0 20 10 10 20 10 20	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0 0 0 0 0 0 0	101AL RECOV- ERABLE (UG/L AS CU) 16 8 19 13 6 14 10 16	DIS- SOLVED (UG/L AS CU) 10 5 4 3 6 7	DIS- SOLVED (UG/L AS FE) 10 10 40 20 30 10 20 20	TOTAL RECOV- ERABLE (UG/L AS PR) 6 5 8 17 6 15 0 13	DIS- SOLVED (UG/L AS PR) 0 2 0 2 0 0 0 4 2	TOTAL RECOVERAGE (UG/L AS HG) .2 .1 .2 .1 .93 .1 .2	DIS- SOLVED (UG/L AS HG) .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	TOTAL RECOV- ERABLE (UG/L AS NI) 8 5 7 6 3 10 4 9 12

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER MAIN STEM

07374550 MISSISSIPPI RIVER AT VENICE, LA (CE 01480) -- Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

D	ATE	NICKEL. DIS- SOLVED (UG/L AS NI)	SELE NIUM TOTA (UGA	- NII	JM• D IS= _VED S G/L (ANA- IUM, DIS- OLVED UG/L S V)	ZINC+ TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVEI (UG/L AS ZN	ORG TO (M	RON. SANIC TAL IG/L	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	GREA TOT REG GRA	AND ASE, TAL COV. AVI- TRIC G/L)
oc														
1	4	2		0	0		50	3	0	9.2	• 0 0)	0
	7	5		1	0		20		7	11	.00	-	2	0
DE:	C 0	4		0	0		50	1	0	8.7	.00)	0
JA	N 6	2		0	0		20	1	0	4.3	.00		5	0
FE		7		0	0		20	1	0	7.4	.00		3	0
	6							-	-				1	
1	0	1		0	1	1.0	60	S	0	9.7	.00		0	0
	1	3		0	0	1.0	20	2	0	4.7	• 0 0		0	0
	6	8		0	0	1.0	70	1	U	10	.01	4	2	0
JU 0	N 4	1		0	0	3.0	50	1	0	7.0	.00		2	0
JU 1	L 5	5		0	0	3.0	60	1	0	8.7	.00		0	U
AU		2		1	1	.0	700	1	1	3.9	.00		0	0
SE		3		0	0	2.0	40		6	3.8	.00		2	0
DATE	PCB. TOTA (UG/L	IN TOM L TE	CB, TAL BOT- I MA- CRIAL S/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCN+ TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDR TOT	IN TOM AL TE	MA- D RIAL T	HLOR- ANE, OTAL G/L)	DAN TOT IN B	MA- D	IN IDD, TO	DDD + OTAL BOT- M MA- ERIAL G/KG)	DDE + TOTAL (UG/L)
JAN 16	۷.	1	7	<.1	<1.0	<,	001	<.1	<.1		3.0	<.001	1.5	<.001
DATE	DDE TOTA IN BO TOM M TERI (UG/K	L T- A- C AL TO	ODT, OTAL UG/L)	DDT. TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON TOTAL (UG/L	TER	ON. AL OT- D MA- EL IAL TO	I I IN DRIN TO	DI- DRIN. OTAL NOT- OM MA- ERIAL JG/KG)	END SULF TOT (UG	SUL TO OO- IN FAN, TOM TAL TE	RIAL T	DRIN, OTAL UG/L)	ENDRIN. TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JAN 16	1	.4	<.001	<.1	• 0		<.1	<.001	. 4	<	.001	<.1	<.001	<.1
r	DATE	ETHION TOTAL (UG/L	TEH	AL BOT- HE MA- CH	PTA- I	HEPTA- CHLOR. TOTAL N ROT- DM MA- TERIAL JG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	TOT.	PE IN DM LI	NDANE OTAL UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION	IN TOM	HION+ DTAL HOT- H MA- ERIAL 6/KG)
	AN 16	<.0	1	<.1	<.001	<.1	<.00	1 <	. 1	<.001	<.1	1 <.(1	<.1
	< Actu	ial valu	ue is k	nown to	be less	than t	he value	shown.						

MISSISSIPPI RIVER MAIN STEM

07374550 MISSISSIPPI RIVER AT VENICE, LA (CE 01480)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLUR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JAN										
16	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1
DATE	PER- THANE TOTAL (UG/L)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE; TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION. TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2.4-D. TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JAN										
16	<.01	< • 1 0	<.1	<1	<.01	<.1	.03	<.01	<.01	<.01

SOLIDS, VOLA-TILE IN BOTTOM MA-TERIAL DATE (MG/KG) JAN 16... 95900 16... 95500 16... 11700 MAY 06... 58800 06... 58800 06... 96200

NOV 07 1130 181 98 DEC 17 1200 126 99 MAY 06 1615 327 99 JUN 04 1220 708 95 JUL 14 1200 292 95 AUG	DATE	TIME	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC 17 1200 126 99 MAY 06 1615 327 99 JUN 04 1220 708 95 JUL 14 1200 292 95 AUG	NOV			
17 1200 126 99 MAY 06 1615 327 99 JUN 04 1220 708 95 JUL 14 1200 292 95 AUG	07	1130	181	98
MAY 06 1615 327 99 JUN 04 1220 708 95 JUL 14 1200 292 95 AUG	DEC			
06 1615 327 99 JUN 04 1220 708 95 JUL 14 1200 292 95 AUG	17	1200	126	99
JUN 04 1220 708 95 JUL 14 1200 292 95 AUG	MAY			
04 1220 708 95 JUL 14 1200 292 95 AUG		1615	327	99
JUL 14 1200 292 95 AUG				
14 1200 292 95 AUG		1550	708	95
AUG			232	4.2
		1200	292	95
		2224	1000	0.2
18 1200 142 97	18	1200	142	97

290053089095700 MISSISSIPPI RIVER SOUTH PASS AT MILE 13.0 BHP, NEAR PORT EADS, LA (CE 01850) (Formerly published as South Pass (Mile 13.0 BHP) of Mississippi River near Port Eads, LA (CE 01850))

LOCATION.--Lat 29°00'53", long 89°09'57", Plaquemines Parish, Hydrologic Unit 08090100, 14.5 mi (23.3 km) east of Burrwood, and 2.0 mi (3.2 km) southeast of Port Eads.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to January 1981 (discontinued).

COOPERATION .-- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
ост							5.2			26.0	2.72	222
28 NOV	1015	6730	8.1	0	6.0	<1.0	7.7	41		960	100	830
18	0950	6200	7.9	10	9.0	<1.0	8.3	42	. 1	780	K95	780
DEC 10	1507	3130	8.1	0	20	<1.0	9.6	13	.2		96	400
20	1000	8190	7.9	5	5.0	<1.0	11.7	58	1.7	K400	58	930
									SOLIDS,			
DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM. DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN: NOZ+NO3 TOTAL (MG/L AS N)
ост												
28	700	85	150	1200	51	130	330	2200	20	.95	.03	.98
NOV 18	650	82	140	1100	42	128	410	1900	17	.87	.02	.89
DEC 10	280	54	64	510	18	120	180	880	43	.90	.03	.93
JAN	800	92	170	1400	52	133	400	2500	15	1.4	.02	1.4
20	800	92	170	1400	32	133	400	2300			•02	
DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM. TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
	100											
28	.79	.28	2	2	0	0	0	0	0	0	4	5
NOV 18	.67	.18	1	1	0	0	0	1	10	0	7	4
DEC 10	1.3	.18	1	1	0	0	0	0	0	0	3	3
JAN						0	0	0	30	0	6	1
20	1.1	.14	1	1	0	Ü	. 0	Ü	30	· ·	0	

290053089095700 MISSISSIPPI RIVER SOUTH PASS AT MILE 13.0 BHP, NEAR PORT EADS, LA (CE 01850)--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON DIS- SOLVE (UG/L AS FE	TO RE	AD, TAL COV- ABLE G/L PB)	LEAD, DIS- SOLVED (UG/L AS PB)	ERA (UG	ABLE S	RCURY T DIS- R OLVED E UG/L (CKEL, OTAL ECOV- RABLE UG/L S NI)	DI:	S- N LVED T G/L (ELE- IUM. OTAL UG/L S SE)	SEL NIU DI SOL (UG AS	M, TO S- RE VED ES	RABLE	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
28	4	0	0	0		• 0	• 0	9		3	0		0		20	
NOV 18	3	30	3	2		• 0	• 0	2		1	0		0		20	3.6
DEC 10	2	20	2	0		•1	.0	5		3	0		0	30	20	4.5
JAN 20	3	30	6	0		• 0	• 0	3		3	0		0	••	10	4.3
DA		ANIDE TOTAL (MG/L AS CN)	PHENOL (UG/L	S GRA	SE,	PCB. TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR, TOTAL (UG/L)	TOT		CHLOR- DANE, TOTAL (UG/L)	TOTA	AL.	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L	AZI	I- NON• Tal G/L)
007		.00		0	0	.0	.0		000	.0	. (000	.000	.00	0	.00
NOV 18		.00		1	0	.0			000	.0	. (000	.002	.00	0	.01
DEC		.00		0	0	<.1	<.1	<.	.001	<.1	<.(001	<.001	<.00	1	.01
JAN 20		.00		0	0	<.1	<.1	<,	.001	<.1	<.(001	<.001	<.00	1	.01
DA		DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN TOTAL (UG/L	N. ENDE		ETHION, TOTAL (UG/L)	TOTAL	EPOX TOT	CIDE	LINDANE TOTAL (UG/L)	TOT	ON,	METH- OXY- CHLOR, TOTAL (UG/L)	METHY PARA- THION TOTAL (UG/L	, TH	THYL RI- ION, TAL G/L)
OCT 28		.002	.0	00 .0	000	.00	.000) .	.000	.000)	.00	.00	.0	0	• 0 0
		.000	.0	00 .	000	.00	.000) .	.000	.000	0	.00	.00	.0	0	.00
		.001	<.0	01 <.	001	<.01	< .00	<.	.001	<.00	1 <	.01	<.01	<.0	1	<.01
JAN 20	•••	.001	<.0	01 <.	001	<.01	<.00	l <.	.001	<.00	1 <	.01	<.01	<.0	1	<.01
DA		MIREX, TOTAL (UG/L)	PARA THIO TOTA (UG/	N. TH	ER- ANE TAL 3/L)	TOX- APHENE TOTAL (UG/L)	THION	TOT	4-D, TAL G/L)	2, 4-DI TOTAL (UG/L)	2,4, TOT (UG	AL	SILVEX, TOTAL (UG/L)	PHYTO PLANK TON	T CHR	OR-B YTO- ANK- ON OMO OROM G/L)
0CT		.00		00	.00	. (.0	0	.00	.0	0	.01	.00	4.44		.000
		. 00	•	2.0												000
NOV 18		-00	1	00	.00	. (.0	0	.01	.0	0	.00	.00	2.26	,	.000
18 DEC		.00 <.01	٠.	00	.00	, (<, :			.01	.0		.01	.00			.000

< Actual value is known to be less than the value shown.

285442089253000 MISSISSIPPI RIVER SOUTHWEST PASS AT MILE 20.2 BHP, NEAR BURRWOOD, LA (CE 01670) (Formerly published as Southwest Pass (Mile 20.2 BHP) of Mississippi River near Burrwood, LA (CE 01670))

LOCATION.--Lat 28°54'42", long 89°25'30", Plaquemines Parish, Hydrologic Unit 08090100, 25 mi (40 km) south of Venice and 5.0 mi (8.0 km) southwest of Burrwood.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to January 1981 (discontinued).

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM CORALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./	HARD- NESS (MG/L AS CACO3)
ост												
28	1025	7060	8.0	5	4.0	<1.0	7.6	41		1000	K80	870
18	1002	9440	8.0	10	10	<1.0	8.6	50	.8	280	K65	1100
DEC 10 JAN	1457	6770	8.0	0	15	<1.0	9.5	31	•5		100	750
20	1010	5390	7.8	0	6.0	<1.0	11.7	39	1.3	440	64	640
	HARD- NESS, NONCAR- BONATE	CALCIUM DIS- SOLVED (MG/L	MAGNE- SIUM, DIS- SOLVED (MG/L	SODIUM, DIS- SOLVED (MG/L	POTAS- SIUM, DIS- SOLVED (MG/L	ALKA- LINITY (MG/L AS	SULFATE DIS- SOLVED (MG/L	CHLO- RIDE, DIS- SOLVED (MG/L	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED	NITRO- GEN: NITRATE TOTAL (MG/L	NITRO- GEN, NITRITE TOTAL (MG/L	NITRO- GEN+ NO2+NO3 TOTAL (MG/L
DATE	CACO3)	AS CA)	AS MG)	AS NA)	AS K)	CACO3)	AS SO4)	AS CL)	(MG/L)	AS N)	AS NI	AS NI
OCT 28 NOV 18	740 1000	83 110	160 210	1200 1700	53 61	130 127	320 420	2200 3000	6	.94	.03	.97
DEC 10	630	69	140	1100	42	119	350	2000	40	.81	.03	.84
JAN												
20	500	73	110	850	31	135	280	1500	13	1.5	•02	1.5
DATE	NITRO- GEN·AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER. TOTAL (UG/L AS CU)	COPPER+ DIS- SOLVED (UG/L AS CU)
OCT												
28	.60	.28	2	5	0	0	0	0	10	0	4	5
18	.63	.18	1	1	0	0	0	0	0	0	6	3
DEC 10	1.1	.17	1	1	0	0	0	0	20	0	2	3
JAN 20	.98	.16	1	1	0	0	0	0	10	0	9	3

< Actual value is known to be less than the value shown. K Results based on colony count outside the acceptable range (non-ideal count).

285442089253000 MISSISSIPPI RIVER SOUTHWEST PASS AT MILE 20.2 BHP, NEAR BURRWOOD, LA (CE 01670)--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	50 (U	ON. IS- LVED G/L FE)	TO	AD. TAL G/L PB)	DIS SOLV (UG/ AS P	ED MI	ERCUR TOTAL (UG/L AS HG	Y S	RCURY DIS- OLVED UG/L S HG)	TO (U	KEL. TAL G/L NI)	DI 50	KEL. S- LVED G/L NI)	NI TO (U	LE- UM, TAL G/L SE)	501	JM, [S- _VED 3/L	ZIN TOT (UG	AL S/L	ZIN DI: SOL (UG.	S- O VED /L	ARBON, RGANIC TOTAL (MG/L AS C)
28		30		0		0		0	.0		8		3		1		0		10		10	
18		30		4		2		0	.0		4		2		0		0		30		10	3.8
10		80		2		2		1	.0		5		4		0		0		30		20	28
20		20		5		0		2	.0		3		3		0		0		10		10	5.3
DAT	E	CYANI TOTA (MG/ AS C	L L	PHENOI (UG/I	G LS	REASE TOTAL RECOV GRAVI: METRI (MG/L	·	PCB OTAL G/L)	NAP TH LEN PO CHL TOT (UG	A- ES, LY- OR. AL	ALDR TOT (UG	AL	CHL C DANE TOTA (UGA	AL.	DDD TOTA (UG/	L	DDE • TOTAL (UG/L		DDT. TOTAL (UG/L		DI- AZINON TOTAL (UG/L	
0CT 28.			.00		1		0	.0		. 0		000		.0	.0	00	.00	0	.00	0	. 0	0
NOV 18.			.00		2		0	.0		. 0		000		.0	.0	00	.00	0	.00	0	• 0	1
DEC 10.			00		3		1	<.1		<.1	۷.	001		<.1	<.0	01	<.00	1	<.00	1	.0	1
JAN 20.	••		01		0		0	<.1		<.1	<.	001	•	<.1	<.0	01	<.00	1	<.00	1	• 0	1
DAT	E	DI- ELDF TOT/	RIN	ENDO SULFA TOTA (UG/	N, E	NDRIN TOTAL (UG/L	T	HION OTAL UG/L)	CHL	TA- OR, AL	HEP CHL EPOX TOT (UG	OR IDE AL	LINDA TOTA (UG)	AL	MALA THIO TOTA (UG/	N, L	METH- OXY- CHLOR TOTAL (UG/L	,	METHY PARA- THION TOTAL (UG/L	,	METHY TRI- THION TOTAL (UG/L	,
0CT 28.			002	.0	00	.00	0	.00) .	000		000		000		00	.0	0	.0	0	• 0	00
NOV 18.			000		0.0	.00	0	.00		000		000		000		00	.0	0	• 0	0	• 0	00
DEC 10.			001	<.0	01	<.00	1	<.0	<.	.001	<.	001	<.	001	<.	01	<.0	1	<.0	1	<.0	1
JAN 20.	•••		001	<.0	01	<.00	1	<.0	<.	001	<.	001	<.	001	۷,	01	<.0	1	<.0	1	<.0	01
DAT	Ē	MIRE TO	TAL	PARA THIO TOTA (UG/	N• L	PER- THANE TOTAL (UG/L	AP	TOX- HENE OTAL UG/L	THI	1-	TOT	-D, AL 6/L)	2, 4, TOT (UG/	AL	2,4,5 TOTA (UG/	L	SILVEX TOTAL (UG/L		CHLOR- PHYTO PLANK TON CHROMO FLUORO (UG/L	-	CHLOR- PHYTO PLANK TON CHROMO FLUORO (UG/L)- (-))M
OCT 28.			.00		00	.0	0		0	.00		.00		.00		01	.0	0	3.48		.00	00
NOV 18.			.00		00	.0				.00		.00		.00		00	.0	0	2.76		.00	00
DEC 10.			.01	۲.	01	<.0	1	<.		.01		.02		.00		01	• 0	0	2.37		.00	00
JAN 20.		<	.01	۷.	01	<.0	1	<.	1 .	.01		.03		.00	-	01	• (0	1.62	?	•1	70

< Actual value is known to be less than the value shown.

301116090073300 LAKE PONTCHARTRAIN AT GNO EXPRESSWAY BRIDGE, NEAR NEW ORLEANS, LA (CE 85600)

LOCATION.--Lat 30°11'16", long 90°07'33", T.10 S., R.10 E., Jefferson Parish, Hydrologic Unit 08090202, 12.5 mi (20.1 km) north of New Orleans.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1974 to January 1981 (discontinued).

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAI- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND. BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	CULI- FORM, FECAL, 0.7 UM-MF (COLS,/	HARD- NESS (MG/L AS CACO3)
ост												
27 NOV	1020	6080	7.6	0	3.0	<1.0	9.4	40	.8	<5	<5	750
19	1025	7610	7.6	5	6.0	<1.0	9.5	49	. 4	< 5	<5	800
09 JAN	1046	9480	7.5	0	2.0	<1.0	10.2	140	1.1	K4	<2	1100
19	1000	9800	7.7	0	3.0	<1.0	11.5	50	1.3	<4	<2	1000
DATE	HARD- NESS; NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE. DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN; NITRATE TOTAL (MG/L AS N)	NITRO- GEN: NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L A5 N)
OCT 27	720	54	150	1200	49	38	310	2700	10	.00	.00	.00
NOV 19	760	58	160	1300	49	43	270	2400	9	.00	.00	.00
DEC												
09 JAN	1100	76	230	1600	82	47	430	3100	5	.00	.00	.00
19	960	77	200	1900	65	52	480	3300	6	•00	• 00	.00
DATE	NITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM. TOTAL (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER. TOTAL (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)
OCT												
27 NOV	.79	.04	1	1	0	0	0	0	10	0	7	3
19 DEC	.77	.04	1	0		10	0	0	10	0	3	2
09 JAN	•54	.03	0	1	0	0	0	0	U	0	4	0
19		.01	0	0		10	0	0	30	0	7	1

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

301116090073300 LAKE PONTCHARTRAIN AT GNO EXPRESSWAY BRIDGE, NEAR NEW ORLEANS, LA (CE 85600)--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON DIS SOLV (UG/ AS F	ED L	LEAD. TOTAL (UG/L AS PB)	50 (U	AD, IS- LVED G/L PB)	(U)	CURY TAL G/L HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NIC TO (U	KEL, TAL G/L NI)	DI:	KEL+ S- LVED G/L NI)		E- N JM. TAL S	ELE- IUM, DIS- OLVED UG/L S SE)	TO:	NC. TAL :	ZINC, DIS- SOLVEI (UG/L AS ZN)	ORG TO	BON, ANIC
0CT 27		30)	2		• 0	.0)	8		2		0	0		10	1)	
NOV 19		30			2		. 0	.0		2		4		0	0		30	2	0	4.0
DEC 09		60			0		. 0	. (4		0		0	0		30	2	0	4.8
JAN		30	2		1		.0	.0		3		2		0	0			2	0	6.7
19		30	2.0				••	•												
DAT		YANII TOTAL (MG/I AS CI	PH	ENOLS	OIL GREATOT TOT REC GRA MET (MG	SE, AL OV. VI- RIC	PCB TOTA (UG/L	LE F CH	APH- THA- ENES, POLY- HLOR. DTAL UG/L)	ALDR TOT (UG		CHLO DANE TOTA (UG/	Ĺ	DDD.	DDE TOTA (UGA	AL	DDT. TOTAL (UG/L	AZ T	DI- INON, DTAL UG/L)	
OCT 27.			0 0	5		0		0	.0		000		. 0	.000)	000	.00	0	.01	
NOV 19.			0 0	1		0		0	. 0		000		.0	.000		000	.00	0	.00	
DEC 09.			0 0	1		0	۷,	1	<.1	<.	001	<	.1	<.001	<,	001	<.00	1	.01	
JAN 19.			00	0		0	٧.	1	<.1	<.	001	<	.1	<.001	<.	001	<.00	1	.01	
DAT	E	DI- ELDR TOTA (UG/	IN SU	NDO- LFAN, OTAL UG/L)	ENDR TOT (UG	AL	ETHIO TOTA (UG/	N. CI	EPTA- HLOR, OTAL UG/L)	CHL EPOX TOT	IDE	LINDA TOTA (UG/	L	MALA- THION, TOTAL (UG/L)	TOT	Y- OR, AL	METHY PARA- THION TOTAL (UG/L	, T	ETHYL TRI- HION, OTAL UG/L)	
OCT 27.		. 0	0.0	.000		000		00	.000		000	. 0	000	.00		.00	.0	0	.00	
NOV 19.		.0		.000		000		00	.000		000	.0	000	.00		.00	.0		.00	
DEC 09.		<.0	01	<.001	<.	001			<.001	<.	001	<.0	01	<.01	<	.01	<.0	1	<.01	
JAN 19.		<.0	01	<.001	<.	001	۷.	01	<.001	<.	001	<.0	001	<.01		.01	<.0	1	<.01	
DAT	ſΕ	MIRE TOT (UG/	X. T	ARA- HION, OTAL UG/L)	THA		TOX APHEN IOTA (UG/	E.	OTAL TRI- HION UG/L)	TOT	4-D, [AL [S/L]	2, 4- TOTA (UG/L	AL	2,4,5-1 TOTAL (UG/L)	TOT	AL	CHLOR- PHYTO PLANK TON CHROMO FLUORO (UG/L)- P (- P OM FL	LOR-B HYTO- LANK- TON ROMO UOROM UG/L)	
OCT 27.			00	.00		.00		. 0	.00		.01		.00	.00		.00	.36	0	.000	
NOV 19.			00	.00		.00		. 0	.00		.02		.00	.00)	.00	.67	0	.000	
DEC 09.		۷.	01	<.01	<	.01	<	. 1	<.01		.03		.00	.00)	.00	1.82	2	.000	
JAN			01	<.01		.01		.1	<.01					-			2.39	,	.000	

< Actual value is known to be less than the value shown.

301015089451500 LAKE PONTCHARTRAIN AT WEST RIGOLETS, NEAR SLIDELL, LA (CE 85731)

LOCATION.--Lat 30°10'15", long 89°45'15", T.10 S., R.14 E., Orleans Parish, Hydrologic Unit 08090202, 5.8 mi (9.3 km) south-southeast of Slidell.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1979 to January 1981 (discontinued).

COOPERATION .-- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
ост												
27 NOV	1045	15600	7.8	0	2.0	<1.0	9.1	65	1.4	K25	<5	1800
19 DEC	1055	12900	7.7	5	7.0	<1.0	9.7	95	.7	K15	<5	1400
09	1118	12100	7.5	0	6.0	<1.0	9.4	200	1.1	K24	K6	1300
JAN 19	1040	10400	7.7	0	3.0	<1.0	11.4	63	.8		K20	1100
DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM. DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS. RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN; NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)
OCT 27	1700	120	360	2900	120	54	710	5300	7	.00	•00	.00
19 DEC	1400	99	290	2300	84	51	470	4400	8	.00	.00	.00
09	1300	95	270	2100	90	43	540	3900	13	.00	.01	.01
JAN 19	1100	82	220	1900	62	54	500	3400	5	.02	.00	.02
DATE	NITRO- GEN:AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM. TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM. TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)
	AS IV	AJ FI	A3 A37	A3 A37	AJ DE	AJ BE	AS COT	A3 C07	AS CKI	AS CRI	A3 C07	45 607
OCT 27	•59	.05	1	1	0	0	0	1	30	0	4	2
NOV 19	.68	.04	0	0		10	5	0	20	0	2	1
09	.59	.04	0	0	0	0	0	0	0	0	4	0
JAN 19	.73	.02	0	0	0	0	0	0	50	0	6	1

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

301015089451500 LAKE PONTCHARTRAIN AT WEST RIGOLETS, NEAR SLIDELL, LA (CE 85731) -- Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON. DIS- SOLVE (UG/L AS FE	D EF	CAD+ OTAL CCOV- RABLE JG/L G PB)	LEAD DIS SOLV (UG/ AS P	• TO • RE ED ER L (U	CURY TAL COV- ABLE G/L HG)	MERCUR DIS- SOLVE (UG/L AS HG	Y TO RE D ER	CKEL, OTAL CCOV- RABLE JG/L S NI)	DI:	S- ! LVED G/L	SELE- NIUM, TOTAL (UG/L AS SE	N :	UM. DIS- F DLVED E	ZINC, FOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVEI (UG/L AS ZN	(MG/L
CT 27	3	0	3		2	.0		0	4		2		0	0	10	1	0 -
OV 19 EC	3	0	10		2	.0		0	4		2		0	0	10	1	0 4.
09 AN	7	0	0		0	• 0		0	6		0		0	0	40	2	0 4.
19	. 2	0	23		1	• 0	•	0	4		1		0	0		4	0 6.
DATE	Ţ	ANIDE OTAL MG/L S CN)	PHENOI (UG/I	G LS	IL AND REASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	PCF TOT/	L 3 C	APH- THA- ENES, POLY- HLOR. OTAL UG/L)	ALDRI TOTA (UG/	L	CHLOR DANE + TOTAL (UG/L	T	DDD. OTAL UG/L)	DDE+ TOTAL (UG/L	DDT• TOTAL) (UG/L	AZ T	DI- INON, DTAL JG/L)
OCT 27.		.00		6	0		. 0	.0	.0	000		0	.000	.00	0 .00	0	.01
NOV 19.		.00		1	0		. 0	.0	.0	000		0	.000	.00	0 .00	0	.01
DEC 09.		.00		6	0	<	. 1	<.1	<.0	001	۷.	1	<.001	<.00	1 <.00	1	.01
JAN 19.		.00		1	0	<	. 1	<.1	<.0	001	۷,	1	<.001	<.00	<.00	1	.01
DAT	1	DI- LDRIN OTAL UG/L)	ENDO SULFA TOTA (UG/	N, E	NDRIN. TOTAL (UG/L)	ETHIOT (UG.	ON. C	EPTA- HLOR, OTAL UG/L)	HEPT CHLO EPOX1 TOTA (UG/	DE AL	LINDAN TOTAL (UG/L	E T	ALA- HION, OTAL UG/L)	METH- OXY- CHLOR TOTAL (UG/L	TOTAL	, T	ETHYL TRI- HION. OTAL UG/L)
OCT 27.		.000	.00	00	.000		.00	.000	.0	00	.00	0	.00	.0	0 .0	00	.00
NOV 19.		.000	.00		.000		.00	.000		00	.00	0	.00	.0			.00
DEC 09.		<.001	<.00	01	<.001	<	.01	<.001	<.0	01	<.00	1	<.01	<.0	1 <.0	1	<.01
JAN 19.	••	<.001	<.01	01	<.001	<	.01	<.001	<.0	01	<.00	1	<.01	<.0	1 <.0	1	<.01
DAT		IIREX, TOTAL	PARA THIO TOTA (UG/	N, L	PER- THANE TOTAL (UG/L)	TO: APHEI TOT: (UG:	NE .	OTAL TRI- HION UG/L)	2,4- TOTA (UG/	AL	2, 4-D TOTAL (UG/L)	T	4,5-T OTAL UG/L)	SILVEX TOTAL (UG/L	FLUOR	P CH	LOR-B HYTO- LANK- TON ROMO UOROM UG/L)
OCT 27.		.00		00	.00		. 0	.00			-	-		-	- 1.89	,	.000
NOV 19.		.00		00	.00		.0	.00		.02	.0	0	.00	.0	0 2.50)	.000
DEC 09.		<.01	۷,	01	<.01		<.1	<.01		.02	.0	0	.00	.0	0 1.75	5	.000
JAN 19.		<.01	۷.	01	<.01		<.1	<.01		.03	. 0	0	.00	.0	0 1.85	5	.000

< Actual value is known to be less than the value shown.

44

MISSISSIPPI RIVER DELTA

300555089490300 LAKE PONTCHARTRAIN AT CHEF MENTEUR PASS, NEAR CHEF MENTEUR, LA (CE 85739)

LOCATION.--Lat 30°05'55", long 89°49'03", in lot 37, T.ll S., R.l4 E., Orleans Parish, Hydrologic Unit 08090202, 2.1 mi (3.4 km) north-northwest of Chef Menteur.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1979 to January 1981 (discontinued).

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM. TOTAL. IMMED. (COLS. PER 100 ML)	COLI- FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT												
27	1055	16700	7.9	0	4.0	<1.0	9.0	79	1.5	K20	<5	1900
19 DEC	1100	13100	7.7	5	8.0	<1.0	9,6	68	.8	K5	<5	1400
09	1126	12100	7.6	0	2.0	<1.0	10.0	98	1.3	K40	K2	1300
JAN 19	1045	11000	7.8	5	3.0	<1.0	11.3	56	•5	K4	К2	1200
DATE	HARD- NESS. NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM. DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
ост		120	380	3100	90	62	710	5600	14	.00	.00	.00
27 NOV	1800	130										
19 DEC	1400	100	290	2400	96	52	490	4400	13	•00	.00	.00
09 JAN	1300	97	260	2300	90	49	580	4100	8	.00	•00	.00
19	1200	89	240	2100	64	57	550	3900	7	.02	•00	.02
	NITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L	PHOS= PHORUS, TOTAL (MG/L	ARSENIC TOTAL (UG/L	ARSENIC DIS- SOLVED (UG/L	BERYL- LIUM. TOTAL RECOV- ERABLE (UG/L	BERYL- LIUM, DIS- SOLVED (UG/L	CADMIUM TOTAL RECOV- ERABLE (UG/L	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)
DATE	AS N)	AS P)	AS AS)	AS AS)	AS BE)	AS BE)	AS CD)	AS CUI	AS CRI	AS CHI	A5 C07	H3 C07
OCT 27	.78	.04	1	1	0	0	1	0	20	0	5	2
NOV	1.0	.04	1	0		10	1	0	10	0	3	2
19 DEC							0	1	0	0	5	0
09 JAN	.71	.04	1	0		10						
19	.70	.02	0	0	0	0	0	0	40	0	6	2

< Actual value is known to be less than the value shown.
K Results based on colony count outside the acceptable range (non-ideal count).

300555089490300 LAKE PONTCHARTRAIN AT CHEF MENTEUR PASS, NEAR CHEF MENTEUR, LA (CE 85739) -- Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

OCT 27 40 3 0 .0 NOV			FAL SOLVED G/L (UG/L SE) AS SE)	ERABLE SO	OIS- ORGANIC DLVED TOTAL OG/L (MG/L OF ZN) AS C)
NOV	.0 5	4	0 0	10	10
19 40 6 2 .0 DEC	.0 3	4	0 0	20	20 4.3
09 60 3 0 .0 JAN	.0 5	0	0 0	30	20 4.5
19 30 7 2 .0	.0 4	1	0 0	30	10 5.5
OIL AND GREASE. TOTAL CYANIDE RECOV. TOTAL PHENOLS GRAVI- PCB (MG/L METRIC TOTAL DATE AS CN) (UG/L) (MG/L) (UG/L)		TOTAL	DDD; DDE TOTAL TOTA (UG/L) (UG/	L TOTAL	DI- AZINON, TOTAL (UG/L)
OCT 2700 10 0 .0	.0 .00	0 .0	.000 .0	.000	• 0 0
NOV 1900 1 0 .0	.0 .00	.0	.000 .0	.000	.01
0900 2 0 < JAN	<.1 <.00	1 <.1	<.001 <.0	<.001	.01
1900 1 0 <	<.1 <.00	1 <.1	<.001 <.0	001 <.001	.01
DI- ENDO- ELDRIN SULFAN, ENDRIN, ETHION TOTAL TOTAL TOTAL TOTAL DATE (UG/L) (UG/L) (UG/L)	TOTAL TOTAL	E LINDANE TOTAL	METH MALA- OX) THION+ CHLC TOTAL TOTAL (UG/L) (UG/L)	PARA- OR, THION, AL TOTAL	METHYL TRI- THION, TOTAL (UG/L)
OCT 27000 .000 .000 .	.000 .000	.000	.00	.00	.00
NOV 19000 .000 .000	.000 .000	.000	.00	.00	.00
DEC 09 <.001 <.001 <.001 <.	<.001 <.001 <.00	<.001	<.01 <	.01 <.01	<.01
JAN 19 <.001 <.001 <.001 <.	01 <.001 <.00	<.001	<.01 <	.01 <.01	<.01
PARA- PER- TOX MIREX• THION• THANE APHEN TOTAL TOTAL TOTAL TOTAL DATE (UG/L) (UG/L) (UG/L)	E TRI- 2.4-0 L THION TOTAL	TOTAL	2,4,5-T SILV TOTAL TOT (UG/L) (UG	PHYTO- PLANK- TON EX, CHROMO AL FLUOROM	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT00 .00 .00	.0 .00 .	00 .00	.00	.00 4.65	.000
2700 .00 .00 NOV 1900 .00 .00		30 .00	.00	.00 5.70	.000
DEC		02 .00	.00	.00 4.69	.000
JAN		02 .00	.00	.00 2.28	.000

< Actual value is known to be less than the value shown.

300205090015500 LAKE PONTCHARTRAIN (AT IHN CANAL) AT NEW ORLEANS, LA (CE 76062)

LOCATION.--Lat 30°02'05", long 90°01'55", T.12 S., R.12 E., Orleans Parish, Hydrologic Unit 08090202, at New Orleans.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1974 to January 1981 (discontinued).

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
ост												
27 NOV	0920	8550	7.3	5	1.0	<1.0	9.4	120	1.3	960	260	930
19 DEC	0925	9820	7.5	5	6.0	<1.0	9.5	110	.8		K25	1100
09 JAN	0925	7650	7.2	0	2.0	<1.0	11.0	68	1.4	140	K48	830
19	0850	8300	7.4	5	4.0	<1.0	10.6	48	.8	K48	K12	860
DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE + DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN+ NITRATE TOTAL (MG/L AS N)	NITRO- GEN+ NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)
OCT 27	890	61	190	1500	64	42	380	2800	3	.14	.01	.15
NOV												
19 DEC	1100	78	220	1900	79	46	370	3400	12	.05	.00	.05
09 JAN	780	68	160	1400	65	46	340	2400	6	.00	• 0 0	.00
19	820	66	170	1400	54	49	370	2600	4	• 04	.01	.05
DATE	NITRO- GEN+AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER. TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)
ост												
27	.82	.19	1	1	0	0	2	1	10	0	4	4
19 DEC	.81	.07	1	1	0	0	0	0	10	0	2	2
09	.48	.05	0	1		10	1	0	0	0	5	0
JAN 19	.68	.04	0	0	0	0	0	0	10	0	7	2

 $^{^{&}lt;}$ Actual value is known to be less than the value shown. K Results based on colony count outside the acceptable range (non-ideal count).

300205090015500 LAKE PONTCHARTRAIN (AT IHN CANAL) AT NEW ORLEANS, LA (CE 76062) -- Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON, DIS- SOLVED (UG/L AS FE)	RE(TAL COV- ABLE G/L	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERC DI SOL (UG	URY T S- R VED E /L (CKEL, OTAL ECOV- RABLE UG/L S NI)	DI SO (U	S- LVED G/L	SELE- NIUM, TOTAL (UG/L AS SE	N: 50	IUM, DIS- I DLVED I	RECOV- ERABLE (UG/L	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON. ORGANIC TOTAL (MG/L AS C)
OCT 27	20		0	0	.0		.0	8		5		0	0	10	10	8.1
NOV 19 DEC	40		4	1	• 0		. 0	4		3		0	0		20	4.4
09 JAN	50		0	0	• 0		.0	4		0		0	0	40	20	5.8
19	10		13	1	• 0		• 1	4		3		0	0	20	20	5.4
DAT	CYAN) TOTA (MG/ E AS (AL L	PHENOLS	METR	E. IL IV. II- P	CB TAL /L)	NAPH- THA- LENES. POLY- CHLOR. TOTAL (UG/L)	ALDR: TOTA (UGA	AL	CHLOR DANE + TOTAL (UG/L	т	DDD, OTAL UG/L)	DDE, TOTAL (UG/L	DDT• TOTAL (UG/L	AZI	I- NON, Tal G/L)
OCT 27.		.00		2	0	.0	.0	. (000		0	.000	.000	.00	0	.00
NOV 19.		.00		1	0	<.1	<.1	<.(001	۷.	1	<.001	<.001	<.00	1	.01
DEC 09.		.00		3	0	<.1	<.1	<,(001	٧.	1	<.001	<.001	<.00	1 .	<.01
JAN 19.		.00		0	0	<.1	<.1	<.(001	٧.	1	<.001	<.000	<.00	1	.01
DAT	DI- ELDF TOTA E (UGA	RIN	ENDO- SULFAN TOTAL (UG/L	TOTA	L TO	IION+ TAL IG/L)	HEPTA- CHLOR. TOTAL (UG/L)	HEP CHL EPOX TOT (UG	OR IDE AL	LINDAN TOTAL (UG/L	E T	ALA- HION, OTAL UG/L)	METH- OXY- CHLOR TOTAL (UG/L	TOTAL	, TH	THYL RI- ION, TAL G/L)
OCT 27.		001	.00	0 .0	000	.00	.000	. (000	.00	2	.00	.0	0 .0	0	.00
NOV 19.		001	<.00	1 <.0	01	<.01	<.001	<.(001	<:00	1	<.01	<.0	1 <.0	1	<.01
DEC 09.		001	<.00	1 <.0	001	<.01	<.001	<.	001	<.00	1	<.01	<.0	1 <.0	1	<.01
JAN 19.	<.(001	<.00	1 <.0	001	<.01	<.001	<. (001	<.00	1	<.01	<.0	1 <.0	1	<.01
DAT		TAL	PARA- THION TOTAL (UG/L	· THAN	NE APH	OX- HENE+ OTAL JG/L)	TOTAL TRI- THION (UG/L)	2,4 TOT (UG	AL	2• 4-0 TOTAL (UG/L)	. 1	4.5-T OTAL UG/L)	SILVEX TOTAL (UG/L	PHYTO PLANK TON CHROMO FLUORO	- PL T CHR M FLU	YTO- ANK- ON
OCT 27.		.00	.0	0	.00	. 0	.00		.33	.0	0	.00	.0	0 3.04	1	.25
NOV 19.		.01	<.0		.01	<.1	<.01		.04	. 0		.00		0 3.29		.000
DEC 09.		.01	<.0		.01	<.1	<.01		.04	. 0	0	.00	.0	0 6.14		.000
JAN		.01	<.0		.01	<.1	<.01				_		_	- 5.34		.000

< Actual value is known to be less than the value shown.

300024089560500 INTRACOASTAL WATERWAY AT NOPSI PLANT NEAR PARIS ROAD, AT NEW ORLEANS, LA (CE 76042)

LOCATION.--Lat 30°00'24", long 89°56'05", T.12 S., R.13 E., Orleans Parish, Hydrologic Unit 08090203, at New Orleans.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1974 to current year.

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND. BIO- CHEM- ICAL. 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
27	1225	19200	7.8		5	2.0	<1.0	8.8	73	3.1	140	K40
NOV 19	1345	12700	7.8		5	5.0	<1.0		100		400	K65
DEC 09	1327	16600	7.8		0	2.0	<1.0	10.4	150	2.0	920	110
JAN 19	1255	20700	7.8		0	2.0	<1.0	11.4	140	2.0	140	K24
JUN											88	
18 AUG	1030	17100	7.2	31.0	5	4.0	<1.0	6.9	200			
12	1400	27600	7.8	31.5	10	8.0	<1.0	6.8	1100	2.8	K90	<2
DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS+ NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM. DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE: DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN+ NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)
OCT 27	2200	2200	150	450	3800	150	75	920	7000	14	.00	.00
19	1500	1400	110	290	2200	80	5.5	580	4300	14	.10	.00
DEC 09	1900	1800	120	380	3400	90	67	790	5800	30	.02	•00
JAN 19	2400	2300	160	480	3700	120	75	1100	6800	25	.09	.01
JUN 18	1900	1800	140	380	3300	150	6.5	790	5900	14	.14	.01
12	3300	3200	220	670	5400	210	97	1400	10000	27	.04	•15
DATE	NITRO- GFN+ NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN·AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER. TOTAL RECOV- ERABLE (UG/L AS CU)
OCT 27	•00	1.2	.08	1	1	0	0	0	0	40	0	11
NOV 19	.10		.08	0	1	10	0	0	0	20	0	6
DEC 09	•02	.56	.05	0	0	0	0	0	0	20	0	2
JAN 19	.10	.66	.07	0	1	0	0	0	0	40	0	4
JUN 18	•15	.77	.05	1	1	10	0	1	0	20	0	5
AUG 12	.19	.95	.12	9	0	20	0	0	0	30	0	8
		.,,			-				7			

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

300024089560500 INTRACOASTAL WATERWAY AT NOPSI PLANT NEAR PARIS ROAD, AT NEW ORLEANS, LA (CE 76042) -- Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	COPPER. DIS- SOLVED (UG/L AS CU)	IRON DIS SOLV (UGA	N. T S- R VED E VL (EAD, TOTAL RECOV- RABLE (UG/L IS PB)	LEAD. DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	RE D EF	CKEL, DTAL ECOV- RABLE UG/L S NI)	NICKE DIS- SOLV (UG/ AS N	ED TO	ELE- ! IUM: OTAL ! UG/L	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC. TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 27	2		30	4	2	• 0	.0	n	3		3	0	0	20	20
NOV 19	3		40	3	0	• 2	.0		3		0	0	0	30	20
DEC 09	2		60	0	2	.0	.0		4		3	0	0	30	20
JAN 19	0		70	7	7	. 0	.0		4		0	0	0		20
JUN 18	2		50	18	2	.1	.1		17		1	0	0		20
12	5		110	3	2	•2	• 0		1		2	0	0	40	20
	CARRON,			G	IL AND REASE, TOTAL		NAPH- THA- LENES,								
DATE	ORGANIC TOTAL (MG/L AS C)	CYANT TOTA (MG/ AS (AL PH	UG/L)	RECOV. GRAVI- METRIC (MG/L)	PCB. TOTAL (UG/L)	POLY- CHLOR. TOTAL (UG/L)	TO	ORIN, OTAL UG/L)	CHLO DANE TOTA (UG/L	L TO		DDE; TOTAL (UG/L)	DDT. TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)
0CT 27			.00	10	0	• 0	• 0		.000		0	.000	.000	.000	•01
19			00	0	0	<.1	<.1	<	<.001	٧.	1	<.001	<.001	<.001	.01
DEC	5.0		,00	0		<.1	<.1		<.001	۷,	1	<.001	<.001	<.001	<.01
19	6.1		.00	0	0	<.1	<.1		<.001	۷.	1	<.001	<.001	<.001	<.01
JUN 18	4.3			0	0	<.1	<.1	<	<.001	٧.	1	<.001	<.001	<.001	.01
12	5.1		.00	0	0	<.1	<.1	*	<.001	<.	1	<.001	<.001	<.001	.02
AO	EL TO	I- DRIN S TAL G/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN TOTAL (UG/L	TOT	ON+ CHL	OR, EPO	PTA- LOR XIDE TAL	LINDA	ANE	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR- TOTAL (UG/L)	TOTAL	- TR N, THI L TOT	HYL ON, AL
0CT		.000	.000	.00	0	.00	.000	.000	. (000	.00	.00	0 .	00	•00
NOV	1	.001	<.001					.001		001	<.01	<.01			.01
DEC		.001	<.001					.001	<.(<.01	<.01			.01
JAN	1	.001	<.001					.001		001	<.01	<.01			.01
JUN	1	.001	<.001					.001		001	<.01	<.01			.01
AUG	,	.001	<.001					.001		001	<.01	<.01			.01
													CHLOR- PHYTO PLAN	O- PHY	PR-B TO-
DA	Т	RFX, OTAL G/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L	TOT	NE THI	RI- 2,	4-D, TAL G/L)	2, 4- TOTA (UG/L	AL	•4•5-T TOTAL (UG/L)	SILVEX TOTAL (UG/L)	FLUOR	OM FLUO	MO
ост															
NOV		.00	•00			. 0	•00	• 02		.00	•00	•00			000
DEC		<.01	<.01				.01	.05		.00	•00	• 0 (000
JAN	1	<.01	<.01				.01	.03		.00	.00	• 0 (000
JUN	1	<.01	<.01				.01	.02		.00	.00	• 0 0			000
1 B AUG		<.01	<.01	<.0	1	<.1	.01	.06	<.	.01	<.01	<.01			000
		<.01	<.01	<.0	1	<.1	.01	.16	<,	01	<.01	<.01	6.6		000

< Actual value is known to be less than the value shown.

300404089482500 CHEF MENTEUR PASS NEAR LAKE BORGNE, AT CHEF MENTEUR, LA (CE 85750)

LOCATION.--Lat 30°04'04", long 89°48'25", T.12 S., R.14 E., Orleans Parish, Hydrologic Unit 08090203, north of U.S. Highway 90 bridge and 0.1 mi (0.2 km) southwest of Chef Menteur.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: October 1976 to current year. CHLORIDE: October 1974 to current year.

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD .--

CHLORIDE: Maximum daily, 8,100 mg/L Sept. 1, 1977; minimum daily, 50 mg/L May 10, 14, 1979.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURES: Maximum daily, 27.0°C Oct. 1-4; minimum daily, 7.0°C Jan. 20. CHLORIDE: Maximum daily, 7,000 mg/L Feb. 8; minimum daily, 2,800 mg/L Dec. 16.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

					UN	VCE-DAIL!						
DAY	oct	NOV	DEC	NAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.0	17.0	15.0	13.0	12.0							
	27.0	17.0	16.0	13.0	11.0							
3	27.0	18.0	14.0	12.0	11.0							
2 3 4	27.0	19.0	15.0	13.0	11.0							
5	24.0	18.0	15.0	10.0	10.0							
6	24.0	19.0	15.0	10.0	9.0							
7	24.0	19.0	15.0	11.0	9.0							
8	24.0	19.0	18.0	10.0	10.0							
9	24.0	19.0	17.0	10.0	10.0							
10	24.0	20.0	17.0	10.0	10.0							
11	24.0	20.0	17.0		8.0							
12	24.0	20.0	14.0	8.0	9.0							
13	23.0	19.0	14.0	8.0	9.0							
14	23.0	20.0	14.0		9.0							
15	23.0	20.0	14.0		10.0							
16	23.0	20.0	14.0	9.0	10.0							
17		20.0	13.0		10.0							
18		17.0	13.0		11.0							
19		15.0	13.0		11.0							
20		15.0	13.0	7.0	1:.0							
21		15.0	13.0	9.0	11.0							
22		15.0	13.0	9.0	11.0							
23		15.0	13.0	10.0	11.0							
24		15.0		10.0	11.0							
25		14.0		11.0	16.0							
26		14.0	10.0	11.0	16.0							
27		14.0	10.0	12.0	16.0							
28		14.0	10.0	13.0	16.0							
29		14.0		13.0								
30		14.0		13.0								
31	17.0											
MAX		20.0	18.0	13.0	16.0							
MIN		14.0	10.0	7.0	8.0							

MISSISSIPPI RIVER DELTA 300404089482500 CHEF MENTEUR PASS NEAR LAKE BORGNE, AT CHEF MENTEUR, LA (CE 85750) -- Continued

CHLORIDE, DISSOLVED (MG/L), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY SEP JUL AUG MAR APR MAY JUN FER DAY OCT NOV DEC JAN 2 3 4600 3600 5000 === ------=== ---6000 28 3600 ------MAX

MIN

295623089501800 MISSISSIPPI RIVER GULF OUTLET AT MILE 52.8 AT BAYOU DUPRE, NEAR VIOLET, LA (CE 85764)

LOCATION.--Lat 29°56'23", long 89°50'18", T.13 S., R.14 E., St. Bernard Parish, Hydrologic Unit 08090203, 4.5 mi (7.2 km) northeast of Violet.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1976, 1978 to January 1981 (discontinued).

COOPERATION .-- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAI- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
ост												
27	1220	25200	7.9	0	2.0	<1.0	9.3	280	1.8	<5	<5	3000
NOV 19	1335	15000	7.7	5	7.0	<1.0	9.4	75	1.3	120	K25	1700
DEC 09	1317	17800	7.7	0	3.0	<1.0	9.3	140	1.3	K20	K20	2200
JAN	1317	17800			3.0	11.0	9.3	140	1.3	NZU	NZU	2200
19	1245	18800	7.8	5	5.0	<1.0	11.1	2200	1.4	<4	K4	2100
DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN; NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN; NOZ+NO3 TOTAL (MG/L AS N)
OCT	2000	200		2004	7.54	2.5	22.00	774 m.s.				
27	2900	200	600	5100	190	81	1200	9200	18	.00	.00	.00
19	1600	110	340	2700	780	59	770	5400	15	.00	.00	.00
09 JAN	2100	140	450	3400	150	67	900	6300	15	.00	.01	.01
19	2000	140	420	3500	110	72	860	6200	5	.03	.01	.04
	NITRO-				BERYL-				CHRO-	CHRO-		
DATE	GEN.AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	MIUM. TOTAL RECOV- ERABLE (UG/L AS CR)	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
ост												
27	1.7	.05	1	1	0	0	0	0	70	0	4	2
19	.69	.12	1	1	0	0	1	0	20	0	2	1
DEC 09	.81	.05	1	1	10	10	0	0	0	0	4	0
JAN 19	.61	.05	0	0	10	0	0	0	40	0	6	1

< Actual value is known to be less than the value shown. K Results based on colony count outside the acceptable range (non-ideal count).

295623089501800 MISSISSIPPI RIVER GULF OUTLET AT MILE 52.8 AT BAYOU DUPRE, NEAR VIOLET, LA (CE 85764) -- Continued

DATE	SOL	S- VED	ER/	AD, TAL COV- ABLE G/L PB)	SOL	AD, IS- VED S/L PB)	TO RE	CURY TAL COV- ABLE G/L HG)	50L (U)	CURY IS- LVED G/L HG)	NICKE TOTA RECO ERAN (UGA	AL OV- BLE /L	DI 50	KEL+ S- LVED G/L NI)	NI TO (U	LE- UM, TAL G/L SE)	SEL NIU DI SOL (UG AS	M. S- VED /L	ZINC TOTAL RECO ERAB (UG/I	V- LE S	ZINC DIS SOLVE (UG/L	OR D T	RBON+ GANIC OTAL MG/L S C)
OCT 27		230		2		1		.0		. 0		7		3		0		0		20		20	
NOV 19		50		3		0		.0		.0		4		2		0		0		20		20	6.8
DEC 09		90		1		0		.0		. 0		2		0		0		0		20		20	4.8
JAN 19		60		8		1		. 0		.0		5		3		0		0		20		20	6.4
20,144																							
DAT	E	CYAN TOT (MG	AL /L	PHENO (UG/		OIL GREAT TOT REC GRA METI (MG	SE, AL OV. VI- RIC	TOT	(B)	NAPH THA LENE POL CHLO TOTA (UG/	- S, Y- R.	ALDR TOT	AL	CHLC DANE TOTA (UGA	AL.	DDI 101. (UG.	AL	DDE: TOTAL (UG/L		DDT, TOTAL (UG/L		DI- ZINON• TOTAL (UG/L)	
OCT 27.			.00		5		0		.0		0)	000		. 0	4	000	.00	0	.00	0	.00	
NOV 19.			.00		0		0		<.1	٧,	1	<.	001	<.	. 1	<.	001	<.00	1	<.00	1	.01	
DEC 09.			.00		1				<.1	۷,	1	<.	001	<,	. 1	<.	001	<.00	1	<.00	1	<.01	
JAN 19.	••		.00		0		0		<.1	٠.	1	<.	001	<,	. 1	<.	001	<.00	1	<.00	1	<.01	
DAT	'E	DIE ELDI TOT (UG	RIN	ENDO SULFA TOTA (UG/	N.	ENDR TOT (UG	AL	E1H1 101 (U)		HEPT CHLO TOTA (UG/	R,	HEP CHL EPOX TOT (UG	OR IDE AL	LIND, TOT, (UG,	AL	MAL THI TOT (UG	AL.	METH- OXY- CHLOR TOTAL (UG/L	,	METHY PARA- THION TOTAL (UG/L		METHYL TRI= THION, TOTAL (UG/L)	
OCT 27.			000	. (000		000		.00	.0	00		000		000		.00	.0	0	.0	0	.00	
NOV 19.		<.	001	<.(001	<.	001		.01	<.0	01	<.	001	<. (001	<	.01	<.0	1	<.0	1	<.01	
DEC 09.		<.	001	<.(001	<.	001		.01	<.0	01	<.	001	<.	001	<	.01	<.0	1	<.0	1	<.01	
JAN 19.		<.	001	<.(001	<.	001		.01	<.0	01	<.	001	<.	001	<	.01	<.0	1	<.0	1	<.01	
DAT	Œ	MIR TO (UG	TAL	PARA THIO TOTA (UG/	N.	PE THA TOI (UG	NE AL	APHE TOT	OX- ENE + FAL G/L)	TOTA TRI THIO	- N	2,4 TOT (UG	AL	2, 4 TOT/ (UG/	AL	2,4, TOT (UG	AL	SILVEX TOTAL (UG/L	, C	HLOR- PHYTO PLANK TON HROMO LUORO (UG/L	- - - - C	HLOR-E PHYTO- PLANK- TON HROMO LUOROM (UG/L)	
OCT 27.			.00		.00		.00		.0		00		.00		.00		.00	.0	0	9.74		.000	
NOV 19.		<	.01	<.	01	<	.01		<.1	۷,	01		.04		.00		.00	.0	0	5.75		.000	i.
DEC 09.		<	.01	<.	01	<	.01		<.1	۷.	01		.01		.00		.00	.0	0	6.89		.000	
JAN 19.		<	.01	٧.	01	<	.01		<.1	<.	01		.01		.00		.00	.0	0	3.12		.000	

< Actual value is known to be less than the value shown.

295019089411500 BAYOU LALOUTRE AT ALLUVIAL CITY, AT YSCLOSKEY, LA (CE 85775)

LOCATION.--Lat 29°50'19", long 89°41'15", T.14 S., R.15 E., St. Bernard Parish, Hydrologic Unit 08090203, 0.2 mi (0.3 km) south of Yscloskey.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD .-- Water years 1975 to current year.

PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: October 1976 to September 1979, November 1980 to September 1981. CHLORIDE: October 1974 to current year.

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: Maximum daily, 32.0°C July 20, 1977; minimum daily, 0.5°C Jan. 2, 5, 14, 16, 17, 1981. CHLORIDE: Maximum daily, 16,000 mg/L June 29, 30, July 1-4, 7-9, 12, 1977, Sept. 6, 1981; minimum daily, 1,100 mg/L Apr. 11, 1980.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURES: Maximum daily, 22.0°C Sept. 1-12, 25-27, 30; minimum daily, 0.5°C Jan. 2, 5, 14, 16, 17. CHLORIDE: Maximum daily, 16,000 mg/L Sept. 6; minimum daily, 4,500 mg/L Feb. 12, 24, 25.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

						NEED THE PERSON						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		11.0	8.0	4.5	3.0	9.5	15.5					22.0
2		11.0	5.0	.5	3.5	9.5	15.5					22.0
2		11.0	8.0	1.5	3.5	10.0	16.5					22.0
4		11.0	7.0	1.5	4.5	11.0	16.5					22.0
5		11.0	5.0	• 5	4.0	11.5	18.0					22.0
6		11.0	5.0	1.0	4.5	11.0	18.5					22.0
7		11.0	5.0	1.0	5.0	11.0	18.0					22.0
8		11.0	5.0	2.0	5.5	10.0	19.0					22.0
9		11.0	6.0	2.0	5.0	9.0	19.5					22.0
10		12.0	6.0	1.0	4.5	9.0	19.0					55.0
11		12.0	6.0	1.0	4.0	10.0	18.5					22.0
12		14.0	8.0	1.5	3.5	9.5	18.0					22.0
13		14.0	8.0	1.5	4.0	9.0	19.5					21.0
14		14.0	8.0	.5	3.5	8.0	19.5					21.0
15		14.0	8.0	1.0	3.5	7.0	16.0					21.0
16		14.0	8.0	.5	4.0	7.0	16.0					21.0
17		14.0	7.0	.5	4.0	5.5	16.0					21.0
18		14.0	7.0	2.0	3.5	5.5	16.0					21.0
19			7.0	4.5	4.5	5.0	16.0					21.0
20		11.0	7.0	5.0	5.0	5.5	16.0					21.0
21		11.0	7.0	5.0	6.0	8.0	16.0					21.0
22		11.0	7.0	5.5	6.0	9.0	16.0					21.0
23		8.0	5.0	6.0	6.5	10.0	16.0					21.0
24		8.0	4.5	6.0	6.5	11.0	16.0					21.0
25		9.0	5.0	6.0	7.0	11.5	16.0					55.0
26		10.0	5.0	5.5	7.0	13.0	16.0					22.0
27		10.0	4.5	5.0	6.5	13.5	16.0					22.0
28		8.0	3.5	5.0	5.0	14.5	16.0					
29		5.0	3.5	4.5		14.5	16.0					
30		7.0	4.0	4.0		15.0	16.0					22.0
31			4.5	4.0		15.5						
MAX		14.0	8.0	6.0	7.0	15.5	19.5					22.0
MIN		5.0	3.5	.5	3.0	5.0	15.5					21.0
3.3		21.52	2.00	6.2	250	2.00						

MISSISSIPPI RIVER DELTA 295019089411500 BAYOU LALOUTRE AT ALLUVIAL CITY, AT YSCLOSKEY, LA (CE 85775)--Continued

CHLORIDE, DISSOLVED (MG/L), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

DAY	oct	NOV	DEC	JAN	FER	MAR	APR	MAY	NUL	JUL	AUG	SEP
1	8000	6500	8000	9800	4700	4700	8600	9100	9400	9100	9500	9200
2	8000	6100	7700	7800	4700	4700	8400	8800	9600	8400	9400	8800
3	7900	6300	7300	7400	4700	4600	8600	8900	9400	8900	9200	10000
4	7700	6300	6700	7400	4700	4600	8600	9000	9400	8800	9200	9800
5	8000	6500	6800	7600	4600	4600	8600	8300	9600	9100	9200	9100
6	8000	6200	6800	7400	4700	7100	8500	9100	9200	9100	9200	16000
7	8000	6400	6900	7800	4800	7000	8300	8600	9500	9200	9400	9200
8	7800	6200	6700	7500	4800	7100	8000	9000	9600	9200	9400	9300
9	7900	6500	6700	7800	5000	7700	8700	8700	9300	9100	9200	9200
10	7900	6300	6600	7800	4700	7100	8300	9000	9300	9200	9400	9200
11	8600	6400	6800	7700	4700	7300	8200	8700	9700	9100	9200	9100
12	8700	6200	6800	7600	4500	7500	7900	9100	9400	8900	9400	9200
13	8600	6200	6900	8000	4700	7300	8200	9300	9500	9100	9700	9200
14	8600	6400	6700	7700	4700		8200	9100	9500	9000	9400	9200
15	8700	6500	6800	7600	4600	7300	7500		9900	9000	9500	9100
16	9900	6400	6800	7700	4800	7400	7200		9700	9000	9400	7600
17	8500	6000	6900	7900	4800	7500	7600		9400	10000	9300	7500
18	8700	6200	6800	9800	4700	7500	7200		9800	13000	9200	7600
19	8800		6700	8700	4600	7200	7300		9800	13000	9400	7600
20	6300	8000	6400	9800	4700	7400	7600		9900	12000	9200	7600
21	6300	7800	6200	9800	4600	8700	7500		9900	12000		7900
22	6400	8000	8000	9800	4600	8700	7000		9700	12000	9200	8000
23	6100	7600	7100	13000	4600	8400	7500		9900	12000	9300	7700
24	6400	8000	7400	9800	4500	8400	7200		9600	13000	9400	7600
25	6400	8000	7300	10000	4500	8400	7500		9600	13000	9300	7800
26	6300	8000	7200	10000	4700	8600	7100		9600	13000	9200	7800
27	6400	8000	7200	9700	4600	9500	7400		9700	13000	9500	7600
28	6300	8000	7300	9600	7100	8400	7300			13000	9300	
29	6400	8000	8000	9900		8600	7500	9700	8200		9300	
30	6600	8000	6900	10000		8400	9000	9700	8400		9300	7800
31	6500		7200	10000		8600		9300			9500	
MAX	9900	8000	8000	13000	7100	9500	9000		9900	13000	9700	16000
MIN	6100	6000	6200	7400	4500	4600	7000		8200	8400	9200	7500

292730089032200 MISSISSIPPI RIVER GULF OUTLET AT MILE -5.0 (BRETON SOUND), NEAR HOPEDALE, LA

LOCATION.--Lat 29°27'30", long 89°03'22", T.22 S., R.21 E., Plaquemines Parish, Hydrologic Unit 08090203, 42.4 mi (78.2 km) southeast of Hopedale.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to January 1981 (discontinued).

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey. Corps of Engineers station 99212.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM. FECAL. 0.7 UM-MF (COLS./	HARD = NESS (MG/L AS CACO3)
OCT												
27 NOV	1200	41100	8.2	0	5.0	<1.0	9.7	150	1.7	<5	5	4900
19 DEC	1245	47700	8.0	0	8.0	<1.0	9.5	370	• 7	<5	<5	5900
09 JAN	1244	34400	8.0	0	5.0	<1.0	10.8	330	1.8	<4	<2	4500
19	1205	46200	8.1	0	2.0	<1.0	11.2	270	.6	<4	<5	5900
DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACU3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN• NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NUZ+NU3 TOTAL (MG/L AS N)
OCT 27	4800	330	1000	8700	350	112	2100	16000	36	.00	.00	.00
NOV		400	1200	10000	420			19000				
19 DEC	5800	400				119	1200	19000	41	•00	• 0 0	.00
09 JAN	4400	390	850	6500	330	105	1800	13000	55	•03	• 01	.04
19	5800	390	1200	10000	310	118	2600	19000	43	• 0 0	• 01	.01
DATE	NITRO- GEN+AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL (UG/L AS BE)	RERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	CUPPER. TOTAL (UG/L AS CU)	COPPER+ DIS- SOLVED (UG/L AS CU)
ост												
27 NOV	• 95	.04	1	1		10	0	1	70	0	4	3
19 DEC	.56	.03	1	1	•	30	0	0	40	0	2	1
09 JAN	•54	.05	1	1	20	0	1	0	40	0	5	0
19		.02	0	0	10	10	0	0	100	0	5	0

< Actual value is known to be less than the value shown.

292730089032200 MISSISSIPPI RIVER GULF OUTLET AT MILE -5.0 (BRETON SOUND), NEAR HOPEDALE, LA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOL (U	ON, IS- LVED G/L FE)	LEA TOT (UC	AL	SOL (UG	S- VED	MER(TO) (U)	AL	MERCU DIS SOLV (UGA	S- VED /L	NICKE TOTA (UG/ AS N	L, L	DIS	KEL. S- LVED G/L NI)	TO	LE- UM, TAL G/L SE)	50L		ZIN TOT (UG	AL :	ZINO DIS SOLV (UG/	/ED	CARBONE DRGANIC TOTAL (MG/L AS C)
CT		530		3		0		• 0		.0		5		3		0		0		20		20	_
27				2		3		.0		.1		3		2		0		0				40	2.
19 EC		190								.0		19		0		0		0		70		30	3.
09 JAN		150		5		0		• 0						1		0		0		30		30	3.
19		180		20		0		• 0		.2		2				•		V		30			
DAT	E	CYAN TOT (MG AS	AL /L	PHENOI		OIL GREA TOT REC GRA MET (MG	SE, AL OV. VI- RIC	PC 101 (UG/	AL	NAPH THA LENE POL CHLO TOTA (UG/	- S, Y- R. A	LDRII TOTAL (UG/L		CHL(DANE	AL.	DDI TOTA (UGA	AL	DDE TOTA (UG/	L	DDT. TOTAL (UG/L		DI- AZINO TOTA (UG/	
OCT 27.			.00		0		0		. 0		. 0	.00	00		• 0		000	. 0	00	.00	0		0 0
NOV 19.			.00		0		0		. 0		. 0	.0	00		. 0		000	.0	00	.00	0		0 0
DEC 09.			.00		1		0	<	.1	<	.1	<.0	01		<.1	<.	001	<.0	01	<.00	1	٠,	01
JAN 19.			.00		0		0	<	. 1	<	.1	<.0	01		<.1	۲.	001	<.0	01	<.00	1	۲,	01
DAT	E	DI ELD TOT (UG	RIN AL	ENDO SULFA TOTA (UG/	N, L	ENDR TOT (UG		ETHI IOT (UG		HEPT CHLO TOTA (UG/	R. E	HEPT CHLO POXI TOTA (UG/	R DE L	LIND TOT (UG	AL	MAL THI TOT (UG	ON.	METH OXY CHLO TOTA (UG/	R.	METHY PARA- THION TOTAL (UG/L	,	METH TRI THIO TOTA (UG/	- N• L
OCT 27.			000	. 0	00		.000		.00	. (000	. 0	00		000		.00		00	• 0	0		00
NOV 19.			.000		000		.000		.00	. (000	.0	00		000		.00		00	• 0	0		00
DEC 09.			.001	<.(<	.001	<	.01	<.(001	<.0	01	<,	001	<	.01	۷,	01	<.0	1	٠.	01
JAN 19.		<.	.001	<.(001	<	,001	<	.01	<.(001	<.0	001	<.	001	<	.01	<.	01	<.0	1	۷,	01
DAT	ΤE	TO	REX.	PARA THIO TOTA (UG/	N.	TH	ER- ANE TAL G/L)	TO		TOTA	I - ON	2,4- TOTA (UG/	L	2• 4 101 (UG/	AL	2,4, 101 (UG		SILVE TOT	AL	CHLOR- PHYTO PLANM TON CHROMO FLUORO (UG/L)- (-))M	CHLOR PHYT PLAN TON CHRON FLUOR	0- IK- I 10 ROM
			.00		.00		.00		.0		.00		00		.00		.00		.00	• 68	30	• (000
NOV 19			.00		00		.00		.0		.00		00		.00		.00		•00	1.2	0	• (000
DEC 09			<.01	<,	01		<.01		<.1	<	.01		00		.00		.00		.00	3.8	5	• (000
JAN 19			<.01	<.	.01		<.01		<.1	<	.01		00		.00		.00		.00	• 0	00	• (000

< Actual value is known to be less than the value shown.

294045089235100 MISSISSIPPI RIVER GULF OUTLET AT MILE 20.0, NEAR HOPEDALE, LA

LOCATION.--Lat 29°40'45", long 89°23'51", T.16 S., R.18 E., St. Bernard Parish, Hydrologic Unit 08090203, near Gardner Island, at mile 20.0, 18.1 mi (29.1 km) southeast of Hopedale.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975-76, 1978 to January 1981 (discontinued).

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey. Corps of Engineers station 85852.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM. TOTAL. IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT												
27	1215	29800	8.0	5	3.0	<1.0	9.4	110	1.7	<5	<5	3600
NOV 19	1305	27400	7.9	5	7.0	<1.0	9.4	130	.8	K5	<5	3200
DEC		22422	0.0	0				(20		<4	<2	4000
09 JAN	1257	32600	8.0	0	4.0	<1.0	9.6	630	1.1		100	
19	1220	26800	7.9	0	4.0	<1.0	11.1	81	1.2	K4	<2	3200
DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE. DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN: NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT	2000	2.2	-20	5000		•••	1500		20	0.0		0.0
27 NOV	3500	240	730	5900	230	90	1500	11000	38	.00	.00	.00
19	3100	220	640	5200	210	82	660	9800	21	.00	.00	.00
DEC 09	3900	270	800	6400	320	90	1600	12000	19	.00	.01	.01
JAN	4.14			5500			1.00	0000	24		0.0	0.0
19	3100	210	640	5500	180	84	1400	9900	34	•00	•00	•00
DATE	NITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS. TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS+ SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
OCT												
27	.95	.04	1	1	0	0	0	0	50	0	4	5
NOV 19	.63	.05	1	1		20	0	0	40	0	2	1
DEC 09	.41	.04	2	5	20	20	0	0	40	0	4	0
JAN	.69	.03	0	0	10	10	0	0	70	0	4	0
19	.09	• 03	U	· ·	10	10	0		, ,			

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

294045089235100 MISSISSIPPI RIVER GULF OUTLET AT MILE 20.0, NEAR HOPEDALE, LA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	50 (U	ON: IS- LVED G/L FE)	ER/		SOL (UC	S- VED	REG ER	CURY TAL COV- ABLE G/L HG)	SOL	URY S- VED	NICKI TOT REC ERAI (UG	AL OV- BLE /L	DI:	KEL, S- LVED G/L NI)	TO (U	LE= UM, TAL G/L SE)	SOL	S- VED	ERA (UG	AL OV-	(UG	S- VED	CARBON ORGANI TOTAL (MG/L AS C)
OCT 27		310		1		1		.0		. 0		6		4		0		0		20		20	_
27		90		3		3		.0		.0		3		2		0		0		30		20	5.
19 DEC												8		1		0		0		50		30	3.
09 JAN		140		1		0		• 0		. 0										20		20	5.
19		80		5		0		• 0		.1		2		2		0		0		20		20	3.
DAT	ΤE	CYAN! TOTA (MGAS	AL /L	PHENO (UG/		OIL GREA TOT REC GRA MET (MG	SE, AL OV. VI- RIC	TOT	(B)	NAPH THA LENE POL CHLO TOTA (UG/	S, Y- OR.	ALDRI TOTA (UG/	L	CHLO DANE TOTA (UG/	L	DDD TOTAL	_	DDE TOTAL (UG/L	-	DDT. TOTAL (UG/L		DI- AZING TOTA (UGA	DN.
OCT 27.			.00		2		0		. 0		0	. (000		0	.0	00	.0	00	.00	0.0		.00
NOV 19.			.00		1		0		.0		. 0	. (000		0	.0	0 0	. 0	00	.00	0 (.01
DEC 09.			.00		1		0		<.1	<.	. 1	<.(001	۷.	1	<.0	01	<.0	01	<.00	1	<.	.01
JAN 19.			.00		0		0		<.1	<.	1	<.(001	۷.	1	<.0	01	<.0	01	<.00)1	<,	01
DAI	ΤE	DI: ELD! TOT! (UG:	AL	ENDO SULFA TOTA (UGA	AN.	ENDR TOT (UG			[ON+	HEPT CHLC TOTA (UGA	OR,	HEPT CHLO EPOXI TOTA (UGA	DR IDE	LINDA TOTA (UG/	L	MALA THIO TOTA (UG/	N, L	METHOXY CHLO	R,	METHY PARA- THION TOTAL (UG/L	,	METH TR: THIC TOTA (UG)	I- ON, AL
OCT 27.			000		000		000		.00		000		000	. (000		00		00	. (00		.00
NOV 19.			000		000		.000		.00		000		000	. (000		00		00	• (0 0		.00
		<.	001	<.	001	<.	001		.01	<.	001	<.	001	<.(001	٧,	01	٠.	01	<.(1	<	.01
JAN 19.		<.	001	<.	001	<.	001		<.01	<.	001	<.	001	<.(001	<٠	01	٠.	01	<.(1	<	.01
DA	ΤE	MIRI TO (UG	TAL	PAR THI TOT	ON.	THA		APHE TOT	OX- ENE + TAL G/L)	TOTA	I - ON	2,4. TOT:	AL	2, 4- TOTA (UG/	AL.	2,4,5 TOTA (UG/	L	SILVE TOTA (UG/	L	CHLOR- PHYTO PLANF TON CHROMO FLUORO (UG/I)- (-))M	CHLOR PHY TO CHROR FLUOR	TO- NK- N MO ROM
OCT 27			.00		.00		.00		. 0		.00		.00		.00		00		00	6.6	0		000
NOV			.00		.00		.00		.0		.00		.00		.00		00		00	3.2	0		000
DEC			.01	<	.01		.01		<.1	<	.01		.00		.00		00		00	5.3	2		000
JAN			.01		.01		.01		<.1		.01		.02		.00		00		00	2.0	5		090

< Actual value is known to be less than the value shown.

293810089392000 BLACK BAY NEAR MOUTH OF RIVER AUX CHENES, NEAR BOHEMIA, LA (CE 86070)

LOCATION.--Lat 29°38'10", long 89°39'20", in NEL/4 sec.26, T.16 S., R.15 E., Plaquemines Parish, Hydrologic Unit 08090203, 8.7 mi (14.0 km) northeast of Bohemia.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1978 to January 1981 (discontinued).

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND; BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM. TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM. FECAL. 0.7 UM-MF (COLS./	HARD- NESS (MG/L AS CACO3)
OCT 28	0940	24600	7.9	5	4.0	<1.0	7.5	190	.8	500	130	2800
NOV 18	0907	21400	7.7	15	6.0	<1.0	8.4	140	•3	K15	<5	2400
DEC								46			K28	1900
10 JAN	1550	18400	7.8	0	5.0	<1.0	8.5		• 7			
20	0913	26600	7.4	5	2.0	<1.0	12.2	44	4.2	K4	<2	3100
DATE	HARD- NESS; NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)
OCT 28	2700	190	570	4900	150	94	1200	8600	27	•00	•00	.00
NOV 18	2400	170	490	4100	120	81	880	7600	28	.02	.01	.03
DEC 10	1900	130	390	3300	110	76	810	6000	25	.00	.01	.01
JAN 20	3000	200	620	5300	190	89	1300	9800	40	.04	.01	.05
DATE	NITRO- GEN+AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS. TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL (UG/L AS BE)	BERYL- LIUM. DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)
ост		100					,	0	30	0	4	4
28	.78	.19	1	1	0	0	1	0				
18 DEC	1.9	• 06	0	0	10	10	0	0	30	0	6	3
10 JAN	.85	.06	0	0		10	0	0	20	0	2	2
20	.96	.04	0	0	10	0	0	0	30	0	3	0

 $^{^{&}lt;}$ Actual value is known to be less than the value shown. K Results based on colony count outside the acceptable range (non-ideal count).

293810089392000 BLACK BAY NEAR MOUTH OF RIVER AUX CHENES, NEAR BOHEMIA, LA (CE 86070)--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON DIS- SOLVI (UG/I	ED TO	TAD. D TAL SO JG/L (L	JG/L (RCURY OTAL UG/L S HG)	SOLVED TO	CKEL DI	S- NI DLVED TO	LE- NI UM, D TAL SO	LVED TO	NC+ D TAL 50 G/L (U	NC + CARB IS - ORGA LLVED TOT IG/L (MG ZN) AS	ANIC
CT 28	2	40	2	2	• 0	.1	6	4	0	0		20	
ov 18		80	5	2	• 0	.0	3	2	0	0		30 1	12
EC		70	0	1	3.0	• 0	4	3	0	0	30	20	8.2
10 AN 20		90	43	0	• 0	• 0	10	0	0	0	20	20	7.9
DATE		YANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE * TOTAL RECOV * GRAVI = METRIC (MG/L)	РСВ		ALDRIN,	CHLOR- DANE + TOTAL (UG/L)	DDD. TOTAL (UG/L)	DDE+ TOTAL (UG/L)	DDT. TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	
OCT 28.		.00	1	0	. () .(.000	.0	.000	.000	.000	.01	
NOV 18.		.00	0	C	.(.000	.0	.000	.000	.000	.00	
DEC 10.		.00	3	C	<.1	<.1	<.001	<.1	<.001	< .001	<.001	<.01	
JAN 20.	••	.00	0	0	<.1	· · ·	<.001	<.1	<.001	<.001	<.001	<.01	
DAT		DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN• TOTAL (UG/L)	ENDRIN. TOTAL (UG/L)	IOTAL	TOTAL	TOTAL	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	
OCT 28.		.000	.000	.000) .	00 .000	.000	.000	.00	.00	.00	.00	
NOV 18.		.000	.000	.000		00 .00		.000	.00	.00	.00	.00	
DEC	-	.000										<.01	
		< .001	<.001	<.00	<.	01 <.00	<.001	<.001	<.01	<.01	<.01		
10. JAN 20.		<.001 <.001	<.001 <.001					<.001	<.01 <.01	<.01	<.01 <.01	<.01	
10. JAN 20.				<.001	TOX APHEN TOTA	- TOTAL E. TRI-	2.4-D.					CHLOR-B PHYTO- PLANK- TON CHROMO	
DAT	·· E	MIRFX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PERTHANE	TOX APHEN TOTA (UG/	TOTAL THION L) (UG/L	2,4-D, TOTAL (UG/L)	<.001 2, 4-DP	<.01 2,4,5-T TOTAL	<.01 SILVEX.	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM	
DAT OCT 28. NOV	E	<.001 MIRFX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PERTHANE	TOX APHEN TOTA (UG/	- TOTAL F. TRI- L THION L) (UG/L	2,4-D, TOTAL (UG/L)	<.001 2, 4-DP TOTAL (UG/L)	<.01 2.4,5-T TOTAL (UG/L)	SILVEX. TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	
DAT	E	MIRFX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L	TOX APHEN TOTA (UG/	TOTAL THION L) (UG/L	2.4-D. TOTAL (UG/L) 0 .00	<.001 2, 4-DP TOTAL (UG/L) .00	2.4.5-T TOTAL (UG/L)	SILVEX. TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	

< Actual value is known to be less than the value shown.

291919089361800 BAYOU LONG AT MILE 5.1, NEAR EMPIRE, LA (CE 99213)

LOCATION.--Lat 29°19'19", long 89°36'18", in sec.11, T.21 S., R.28 E., Plaquemines Parish, Hydrologic Unit 08090301, 4.2 mi (6.8 km) south-southwest of Empire.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975, 1977 to January 1981 (discontinued).

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
ост												
28 NOV	1040	35900	8.0	0	2.0	<1.0	7.3	210	.8	K40	K35	4400
18	1022	41600	7.6	5	10	<1.0	8.7	780	• 2	<5	<5	4900
DEC 10	1440	34200	7.9	0	10	<1.0	8.5	120	1.2	12	K8	4200
JAN 20	1035	43600	8.0	0	9.0	<1.0	11.0	230	1.5	K4	K2	5400
DATE OCT	HARD- NESS: NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM. DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS. RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN. NITRATE TOTAL (MG/L AS N)	NITRO- GEN• NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)
28	4300	290	890	7500	300	121	1800	14000	56	.10	.02	.12
18 DEC	4800	330	1000	8200	290	117	1800	15000	44	.10	.04	.14
10	4100	280	850	7700		117	1900	13000	32	.06	.01	.07
20	5300	340	1100	8300	320	123	2300	15000	57	.05	.01	.06
DATE	NITRO- GEN·AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM. TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)
OCT 28	.68	.17	2	1	10	0	0	0	50	0	5	3
NOV 18	.79	.06	1	0	20	10	. 0	0	40	0	6	3
DEC 10	.78	.08	1	0	10	10	0	0	70	0	2	0
20		.05	1	0	10	10	0	0	30	0	4	0

Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

291919089361800 BAYOU LONG AT MILE 5.1, NEAR EMPIRE, LA (CE 99213)--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOL	S- VED	ERA (UC	OV-	(UG	S- VED	ERA (UG	AL OV-	MERCU DIS SOLV (UG/ AS H	RY TO - RE ED EF	KEL + COV- RABLE JG/L NI)	DIS 501	KEL, S- LVED G/L NI)	SEL NIU TOT (UG	M,	SELI NIU DI SOL (UG AS	M, 1 S- F VED F	ZING FOTA RECO ERAF (UGAS	AL Z OV- BLE S /L (INC DIS OLV UG/ S Z	ORG ED TO	BON+ ANIC TAL IG/L
OCT		450		4		0		• 0		.0	7		3		0		0		20		20	
28 NOV		140		4		2		.0		.0	4		0		0		0				60	6.1
18 DEC 10		100		1		0		.0		.1	4		0		0		0		60		30	5.1
JAN		160		5		0		.0		.1	5		0		0		0				30	7.9
20		100		,																		
DA	TE	CYANI TOTA (MG/ AS (AL /L	PHENO (UG/		OIL GREA TOT REC GRA MET (MG	SE, AL OV. VI- RIC	PCE TOTA (UG/L	AL.	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	TO	RIN, TAL G/L)	DAN		DDD TOTA (UG/	L	DDE, TOTAL (UG/L		DDT. TOTAL (UG/L		DI- ZINON, TOTAL (UG/L)	
OCT 28			.00		1		0		. 0	.0		.000		.0	.0	00	.00	0	.000	0	.00	
NOV			.00		0		0		. 0	.0		.000		. 0	.0	00	.00	0	.000	0	.00	
			.00		3		0	<	. 1	<.1	<	.001		<.1	<.0	01	<.00	1	<.00	1	<.01	
20 20)		.00		0		0	<	. 1	<.1	<	.001		<.1	<.0	01	<.00	1	<.00	1	<.01	
DA	ATE	DI ELD TOT (UG	RIN	END! SULF. TOT. (UG:	AN,	ENDR TOT (UG		ETHI TOT (UG	AL	HEPTA- CHLOR, TOTAL (UG/L)	EPC TC	PTA- HLOR XIDE TAL JG/L)	LING TOT (UC		MALA THIC TOTA (UGA	ON,	METH- OXY- CHLOR TOTAL (UG/L		METHY PARA- THION TOTAL (UG/L	,	METHYL TRI- THION, TOTAL (UG/L)	
001	T B		000		000		000		.00	.000		.000		.000		.00	• 0	00	• 0	0	.00	
NOV			000		000		000		.00	.000		.000		.000		.00	. 0	00	.0	0	.00	
DEC		<.	001	<.	001	<.	001	<	.01	<.001		<.001	<	.001	<	.01	<.0	01	<.0	1	<.01	
JA1 20	N 0	<.	001	<.	001	<.	.001	<	.01	<.001		<.001	<	.001	<	.01	<.(01	<.0	1	<.01	
D	ATE	TO	EX.	PAR THI TOT (UG	ON,	TH	ER- ANE TAL G/L)	APHE		TOTAL TRI- THION (UG/L)	T	,4-D, OTAL UG/L)		4-DP TAL /L)	2,4, TOT (UG	AL	SILVE) TOTAL (UG/L		CHLOR- PHYTO PLANK TON CHROMO FLUORO (UG/L	- M	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	
00	T 8		.00		.00		.00		. 0	.00)	.00		.00		.00		00	5.27		.000	1
NO			.00		.00		.00		.0	.00)	.00		.00		.00		00	6.49	•	.000	
DE			.01		.01		<.01		<.1	<.0		.00		.00		.00		00	4.53	3	.000	1
JA			.01	<	.01		<.01		<.1	<.0	1	.00		.00		.00		00	3.07	,	.000	1

< Actual value is known to be less than the value shown.

64

MISSISSIPPI RIVER DELTA

07380250 BAYOU BARATARIA AT LAFITTE, LA (CE 82875)

LOCATION.--Lat 29°40'06", long 90°06'36", in lot 5, T.16 S., R.23 E., Jefferson Parish, Hydrologic Unit 08090301, 1.0 mi (1.6 km) south of Lafitte.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD .- - Water years 1954, 1975 to current year.

PERIOD OF DAILY RECORD.-WATER TEMPERATURES: October 1976 to current year.
CHLORIDE: October 1974 to current year.

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: Maximum daily, 34.0°C July 23, 1981; minimum daily, 3.0°C Jan. 20, 1977. CHLORIDE: Maximum daily, 10,000 mg/L Apr. 21, 1977; minimum daily, 60 mg/L June 9, 1980.

EXTREMES FOR CURRENT YEAR.-WATER TEMPERATURES: Maximum daily, 34.0°C July 23; minimum daily, 6.0°C Jan. 13.
CHLORIDE: Maximum daily, 9,600 mg/L Jan. 28; minimum daily, 360 mg/L Mar. 23.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

					7							
DAY	ncT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.0	16.0	16.0	10.0	15.0	20.0	23.0	27.0	29.0	29.0	32.0	30.0
2	29.0	16.0	16.0	10.0	14.0	20.0	22.0	27.0	29.0	30.0	31.0	30.0
3	26.0	16.0	16.0	11.0	10.0	19.0	22.0	26.0		30.0	31.0	30.0
4	24.0	18.0	16.0	12.0	10.0	19.0	24.0	25.0		30.0	31.0	30.0
5	24.0	18.0	16.0	11.0	10.0	18.0	24.0	24.0	29.0	30.0	31.0	30.0
6	22.0	18.0	16.0	10.0	10.0	18.0	22.0	25.0	29.0	30.0	31.0	30.0
7	55.0	17.0	16.0	11.0	10.0	17.0	25.0	24.0	30.0	30.0	31.0	30.0
8	25.0	17.0	16.0	10.0	11.0	16.0	21.0	24.0	30.0	31.0	31.0	30.0
9	22.0	19.0	16.0	11.0	12.0	15.0	22.0	24.0	30.0	32.0	31.0	30.0
10	55.0	20.0	13.0	11.0	12.0	16.0	23.0	24.0	30.0	32.0	31.0	
1.1	22.0	21.0	13.0		12.0	16.0	24.0	24.0	30.0	32.0		
12	55.0	21.0	13.0	8.0	9.0	17.0	26.0	24.0	30.0	31.0	31.0	30.0
13	25.0	21.0	13.0	6.0	8.0		26.0	25.0	30.0	31.0	31.0	
14	25.0	21.0	13.0	10.0	8.0	15.0	26.0	26.0	30.0	31.0	31.0	29.0
15	25.0	21.0	13.0	13.0	10.0	18.0	26.0	25.0	30.0	32.0	31.0	29.0
16	25.0	21.0	13.0	8.0	11.0	16.0	25.0	25.0	30.0	32.0	31.0	28.0
17	25.0	21.0	13.0	8.0	13.0	17.0	26.0	25.0	30.0	32.0	31.0	28.0
18	25.0	21.0	13.0	8.0	14.0	18.0	26.0	25.0	31.0	32.0	31.0	28.0
19	25.0	17.0	14.0	7.0	15.0	16.0	26.0	25.0	32.0	33.0	31.0	28.0
20	23.0	17.0	13.0		15.0	15.0	26.0	25.0	32.0	33.0	31.0	28.0
21	21.0	17.0	11.0		16.0	15.0	27.0	25.0	32.0	33.0	31.0	28.0
22	21.0	13.0	11.0		17.0	16.0	27.0	24.0	32.0	33.0	31.0	28.0
23	21.0	13.0	11.0		17.0	17.0	27.0		32.0	34.0	31.0	28.0
24	21.0	14.0	14.0		16.0	17.0	25.0		32.0		31.0	28.0
25	17.0	13.0	12.0		16.0	16.0	25.0	27.0	30.0	33.0	30.0	29.0
26	17.0	13.0	10.0	12.0	16.0	18.0	24.0	26.0	30.0	33.0	30.0	29.0
27	17.0	13.0	9.0	13.0	18.0	18.0	25.0	27.0	30.0		30.0	29.0
28	15.0	13.0	9.0	14.0	19.0	19.0	25.0	28.0	30.0	33.0	30.0	29.0
29	15.0	13.0	9.0	15.0		20.0	26.0	30.0	30.0	33.0	30.0	
30	15.0	13.0	9.0	16.0		21.0	27.0	29.0	28.0	33.0	30.0	29.0
31	15.0		9.0	15.0		23.0		29.0			30.0	
MAX	29.0	21.0	16.0	16.0	19.0	23.0	27.0	30.0	32.0	34.0	32.0	30.0
MIN	15.0	13.0	9.0	6.0	8.0	15.0	21.0	24.0	28.0	29.0	30.0	28.0

MISSISSIPPI RIVER DELTA 07380250 BAYOU BARATARIA AT LAFITTE, LA (CE 82875)--Continued

CHLORIDE, DISSOLVED (MG/L), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

DAY	oct	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1800	1000	1000	4400	2400	510	4900	1700	5900	2900	2400	3800
2	1400	1000	800	3200	2500	560	2000	1300	5700	3100	2600	3600
3	1300	1000	1700	2900	1800	830	3900	4400		3800	2300	2000
4	1200	900	1500	2500	2200	510	5500	5000		3800	2400	1700
5	1100	700	1400	3100	4800	580	2900	5800	6000	3600	2300	1700
6	1100	800	1600	2200	5100	590	1800	7800	6800	3900	2100	2100
7	2000	2100	2000	4700	3500	1100	1500	6200	3800	3600	1700	2000
8	3000	1200	2400	3900	4600	960	2000	4800	3300	2400	2000	2100
9	3200	3000	1200	3900	700	530	2600	3700	3200	2400	2100	2300
10	3200	2300	1500	4900	840	530	3600	3500	4300	2500	1800	
11	2800	2100	1000		700	530	3600	3600	2500	2600		
12	2800	1300	1100	730	860	580	3500	4000	5700	2400	2200	3100
13	2800	1300	1000	1200	890		4400	4000	5100	2400	2800	
14	2600	1400	1000	2200	890	580	5100	4000	5100	2200	2800	3000
15	2600	1900	1000	3300	830	650	5600	3300	5200	5500	2900	2100
16	2300	4400	1000	3900	870	690	6300	4200	2400	2200	3100	2100
17	2000	3100	1300	2100	700	680	3500	5700	2300	2200	2900	3000
18	2000	3000	800	1900	790	650	2200	5300	2500	2200	2900	2000
19	3500	2100	2200	3100	780	430	1600	4400	2300	2200	3100	2400
20	1700	1800	2100		430	540	4700	4500	2500	2100	3300	2400
21	2000	1700	1300	7500	450	690	5100	2800	2600	2200	4100	2400
22	2500	2000	1300	4000	520	610	7000	2800	2600	2200	4500	2500
23	2500	2600	1600	3800	570	360	3200		2100	2400	3000	2500
24	5000	1900	1500	4700	630	400	3700		2100		3000	2300
25	1500	2800	1300		510	440	6800	3200	2400	2400	3400	2500
26	2100	2200	1100	6300	500	550	3600	4100	2300	2400	3600	3000
27	2200	2200	1800	9500	450	1700	3600	4700			5000	3600
28	2700	1100	1800	9600	530	780	3900	4500	2400	3400	4800	3600
29	700	1100	1500	4100		4900	3600	4300	2300	2800	5100	
30	900	1000	1100	3300		3700	2200	5400	2400	2600	4800	3600
31	900		1300	3300		4500		5600			4800	
MAX	5000	4400	2400	9600	5100	4900	7000	7800	6800	3900	5100	3800
MIN	700	700	800	730	430	360	1500	1300	2100	2100	1700	1700

293604090041000 BARATARIA BAY WATERWAY AT MILE 25.0, NEAR LAFITTE, LA (CE 82879)

LOCATION.--Lat $29^\circ36^\circ04^\circ$, long $90^\circ04^\circ10^\circ$, T.17 S., R.24 E., Jefferson Parish, Hydrologic Unit 08090301, 5.8 mi (9.3 km) south-southeast of Lafitte and at mile $25.0 \ (40.2 \text{ km})$.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to January 1981 (discontinued).

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAI- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT												
28	1140	24500	8.1	15	1.0	<1.0	7.9	160	1.4		K50	2900
18 DEC	1125	14700	7.5	30	20	<1.0	8.5	100	.6	K120	K20	1600
10 JAN	1344	11400	7.3	15	10	<1.0	8.3	100	1.5		K14	1200
20	1120	44200	8.0	0	30	<1.0	11.9	120	3.4	160	KB	5700
DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE+ DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)
OCT 28	2800	200	580	4900	200	97	1100	8900	25	•01	•00	.01
NOV					100	75	550	5000	70	•33	.02	•35
18 DEC	1600	130	320	2700								
10 JAN	1200	100	240	2200	73	77	480	4000	104	• 47	.03	.50
20	5600	390	1100	9000	300	120	990	17000	86	.30	.02	.32
DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM. TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER. TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)
	A3 117											
28	.78	.15	1	1	10	0	0	0	40	0	4	3
NOV 18	1.3	.44	1	0	0	0	0	0	20	0	150	3
DEC 10	1.5	.04	1	1	10	0	0	0	20	0	3	0
JAN 20	1.0	.08	1	1	10	10	0	0	100	0	5	3

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

293604090041000 BARATARIA BAY WATERWAY AT MILE 25.0, NEAR LAFITTE, LA (CE 82879) -- Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON, DIS- SOLVED (UG/L AS FE)	TO RE ER (U	AD, TAL COV- ABLE G/L PB)	LEAD DIS SOLV (UG/ AS P	RED ER	CURY TAL COV- ABLE G/L HG)	MERCI DIS SOLV (UGAS	URY T S- R VED E /L (CKEL, OTAL ECOV- RABLE UG/L S NI)	SO (U	S- LVED G/L	SELE NIUM TOTA (UG/ AS S	1. AL S	ELE- IUM, DIS- OLVED UG/L S SE)	REI ER	COV- ABLE G/L	ZINC: DIS- SOLVE (UG/L	D T	RBON, GANIC OTAL MG/L S C)
OCT 28	220		3		2	.0		.0	6		3		0	0		10	,	0	
NOV 18	50		6		2	.0		.0	4		1		0	0		30		0	8.9
DEC 10	50		3		0	.0		• 0	4		0		0	0		30		0	12
JAN 20	150		11		4	.0		.1	6		0		0	0		30		0	10
																		•	
DAT	CYAN TOT (MG. E AS	AL /L	PHENOL	.s	IL AND REASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	PC: 101. (UG.	AL	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDR TOT	AL	CHLOR. DANE. TOTAL (UG/L		DDD, TOTAL (UG/L)	DDE TOTA (UG/	L	DDT, TOTAL (UG/L	T	DI- INON, OTAL UG/L)	
OCT 28.		.00		0	0		.0	.0		000	.0		.000	.0	00	.00	0	.00	
NOV 18.		.00		1	0		.0	.0		000	.0		.000	.0	00	.00	0	.00	
DEC 10.		.00		3	0		<.1	<.1	<.	001	<.1		<.001	<.0	01	<.00	1	.01	
JAN 20.		.00		0	0		<.1	<.1	<.	001	<.1		<.001	<.0	01	<.00	1	<.01	
DAT	DI ELD TOT E (UG	RIN	ENDO- SULFAI TOTAI (UG/)	N, E	NDRIN+ TOTAL (UG/L)	ETHI TOT (UG	AL	HEPTA- CHLOR, TOTAL (UG/L)	EPOX TOT	OR IDE AL	LINDAN TOTAL (UG/L	E	MALA- THION. TOTAL (UG/L)	TOTA	R,	METHY PARA- THION TOTAL (UG/L	, 1	TRI- TRI- THION, OTAL	
OCT 28.		000	.0	00	.000		.00	.000		000	.00	0	.00		00	.0	0	.00	
NOV 18.		000	. 0	00	.000		.00	.000		000	.00	0	.00		00	.0	0	.00	
DEC 10.		001	<.0	01	<.001	<	.01	<.001	<.	001	<.00	1	<.01	٠,	01	<.0	1	<.01	
JAN 20.		001	<.0	01	<.001	<	.01	<.001	<.	001	<,00	1	<.01	۷.	01	<.0	1	<.01	
DAT	TO	REX.	PARA THIO TOTA (UG/	N.	PER- THANE TOTAL (UG/L)	TOT		TOTAL TRI- THION (UG/L)	TOT	-D,	2, 4-D TOTAL (UG/L)		2•4•5-1 TOTAL (UG/L	TOT	AL	CHLOR- PHYTO PLANK TON CHROMO FLUORO (UG/L	- CI	HLOR-EPHYTO-PLANK- TON HROMO UOROM	1
ост		0.0		0.0	.00		. 0	.00	0	.00	. 0	0	.0	0	.00	26.3		3.20	
28, NOV 18,		.00		00	.00		.0	.0		.00	. (.0	0	.00	5.55	,	.00	5
DEC		<.01		01	<.01		<.1	<.0	1	.04	• (0	.0	0	.00	11.7		9.03	
JAN		<.01		.01	<.01		<.1	<.0	1	.00	. (0 0	• 0	0	.00	13.3		.00	0

< Actual value is known to be less than the value shown.

294326090151500 LAKE SALVADOR AT CENTER, NEAR BARATARIA, LA (CE 99216) (Formerly published as Center of Lake Salvador near Barataria, LA (CE 99216))

LOCATION.--Lat 29°43'26", long 90°15'15", T.15 S., R.22 E., St. Charles Parish, Hydrologic Unit 08090301, 7.3 mi (11.7 km) west-southwest of Barataria.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1978 to January 1981 (discontinued).

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNIIS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND. BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS, PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
ост												
28 NOV	1145	3870	7.9	15	1.0	<1.0	8.5	40	•6	< 5	< 5	390
18	1159	1770	7.5	30	13	<1.0	8.6	48	.6	K15	K5	550
DEC 10 JAN	1331	5550	7.3	20	25	<1.0	8.5	45	• 9		64	230
20	1145	2690	7.3	40	55	<1.0	11.8	95	3.2	K220	K20	290
DATE OCT	HARD- NESS. NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN. NITRATE TOTAL (MG/L AS N)	NITRO- GEN+ NITRITE TOTAL (MG/L AS N)	NITRU- GEN+ NUZ+NO3 TOTAL (MG/L AS N)
28 NOV	330	43	68	630	23	64	140	1100	7	.05	.00	.05
18	170	28	37	350	12	52	61	620	7	.30	.02	.32
DEC 10	180	32	37	340	12	57	75	610	76	.52	.01	.53
JAN 20	230	42	46	410	15	68	110	750	408	.69	.04	.73
	NITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L	PHOS- PHORUS, TOTAL (MG/L	ARSENIC TOTAL (UG/L	ARSENIC DIS- SOLVED (UG/L	BERYL- LIUM, TOTAL (UG/L	RERYL- LIUM, DIS- SOLVED (UG/L	CADMIUM TOTAL (UG/L	CADMIUM DIS- SOLVED (UG/L	CHRO- MIUM. TOTAL (UG/L	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L	COPPER, TOTAL (UG/L	COPPER. DIS- SOLVED
DATE	A5 N)	AS P)	AS AS)	AS A5)	AS BE)	AS BE)	AS CD)	AS CD)	AS CH)	AS CR)	AS CU)	AS CU)
0CT 28	1.0	.14	1	1	0	0	0	0	0	0	12	5
18 DEC	1.2	.18	1	0	10	<1	0	<1	0	0	8	4
10 JAN	1.5	.07	1	1	0	0	0	0	10	0	5	3
20	1.4	.13	2	1		10	1	0	20	0	11	6

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

294326090151500 LAKE SALVADOR AT CENTER NEAR BARATARIA, LA (CE 99216)--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRO DI SOL (UG AS	S- VED /L	LEA TOT (UC	TAL	SOL (UC	S-	TO	CURY TAL G/L HG)	MERCURY DIS- SOLVED (UG/L AS HG)	(0	KEL, ITAL IG/L IG/L	0 I 50 (U	KEL+ S- LVED G/L NI)	TO (U	LE- UM, TAL G/L SE)	SELE NIUM DIS SOLV (UG/ AS	1. 5- Z: /ED T(INC; DTAL JG/L	ZINC DIS SOLV (UG/ AS Z	ED L	CARBONE ORGANIC TOTAL (MG/L AS C)
T 28		50		3		0		• 0	.0		6		3		0		0			10	
V						2		.0	.0		5		1		0		0	20		4	11
8 C		10		8													0	40		40	3.
10		30		5		-		• 0	• 0		2		0		0						
20		20		17		7		• 0	.0		16		0		0		0	30		10	27
DAT		CYANI TOTA (MG/ AS C	L	PHENO		GREAS TOTA RECO GRAV METE (MGA	SE, AL OV. VI- RIC	PCB TOTA (UG/L	TH LEI P(CHI L TO	PH- HA- NES, OLY- LOR. TAL	ALDR: TOT: (UG:	AL	CHLOP DANE TOTAL (UG/L		DDD •		DDE + TOTAL (UG/L)	DDT, TOTAL (UG/L		DI- ZINOM TOTAL (UG/L	
OCT 28.			00		0		0		0	. 0	. (000		. 0	.00	0	.000	.00	0	. (00
NOV 18.			00		1		0			. 0	. (000		• 0	.00	00	.000	.00	0	. (00
DEC 10.			00		0		0	۷,	1	<.1	<.	001	<	.1	<.00)1	<.001	<.00	1	• (01
JAN 20.	••	•	00		0		0	٠.	1	<.1	<.	001	<	. 1	<.00)1	<.001	<.00	1	<. (01
DATI	E	DI- ELDR TOTA (UG/	IN	ENDO SULFA TOTA (UG/	N,	ENDRI TOTA (UG/	AL.	ETHIO TOTA (UG/	N. CHL	OR.	HEPT CHLC EPOXI TOTA (UGA	DE AL	LINDAN TOTAL (UG/L		MALA- THION TOTAL (UG/L	,	METH- OXY- CHLOR, TOTAL (UG/L)	METHY PARA- THION TOTAL (UG/L	,	METHY TRI- THION TOTAL (UG/L	,
OCT 28.		. 0	00	.0	00	. (000		00	.000	. (000	.00	0.0	.0	0 0	.00	• 0	0	. (0 0
NOV 18.		. 0	00	.0	00	. (000		00	.000	. (000	.00	0.0	. 0	0 0	.00	.0	0	• (00
DEC 10.		<.0	01	<.0	01	<.(001	۷.	01 <	.001	<.(001	<.00	01	<.0	1	<.01	<.0	1	<.(01
JAN 20.		<.0	01	<.0	01	<.(001	٧,	01 <	.001	<.(001	<.00	01	<.0	1	<.01	<.0	1	<.() 1
DAT	E	MIRE TOT (UG/	AL	PARA THIO TOTA (UG/	N.	PER THAI TOTA	NE AL	TOX APHEN IOTA (UG/	E. TH	TAL RI- ION G/L)	2•4 101 (UG	AL	2, 4- TOTA (UG/L	L	2,4,5- TOTAL (UG/L	-	SILVEX, TOTAL (UG/L)	CHLOR- PHYTO PLANK TON CHROMO FLUORO (UG/L)- (-) C	HLOR- PHYTO PLANE TON HROMO LUORO (UG/I	O- K- OM
OCT 28.			00		.00		.00		.0	.00		.04		00	. (0 0	.02	28.4		2.1	0
NOV 18.			00		00		.00		.0	.00		.03		00	• (00	.02	18.8		9.7	6
DEC 10.		<.	01	<.	01	<	.01	<	.1	<.01		.01		00	. (00	.01	1.99	•	• 0	0 0
JAN 20.			01	<.	01	<	.01	<	.1	<.01		.01		00		00	.01	7.09	•	. 0	00

< Actual value is known to be less than the value shown.

291618089564900 BARATARIA BAY WATERWAY AT MILE 0.8, NEAR GRAND ISLE, LA (CE 82876)

LOCATION.--Lat 29°16'18", long 89°56'49" in sec.29, T.21 S., R.25 E., Jefferson Parish, Hydrologic Unit 08090301, 0.2 mi (0.3 km) southwest of USC&GS Barataria Lighthouse and 3.4 mi (5.5 km) northeast of Grand Isle.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1978 to January 1981 (discontinued).

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLA1- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND. BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./	HARD- NESS (MG/L AS CACO3)
28	1055	40100	8.1	0	2.0	<1.0	7.3	760	•5	2.	K10	4800
NOV 18	1045	40000	7.8	5	10	<1.0	8.4	530		K10	<5	4900
DEC									•6			
10 JAN	1420	35700	7.9	5	8.0	<1.0	8.4	100	1.8	**	K20	4400
20	1100	21500	7.8	10	15	<1.0	11.5	230	2.0	К8	К6	2500
DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN; NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)
0CT 28	4700	310	970	8400	340	113	2100	15000	78	.01	.01	.02
18	4800	330	1000	8100	290	112	1800	15000	42	.07	.03	.10
DEC 10	4300	300	880	7900	260	111	1800	14000	28	.02	.01	.03
JAN 20	2400	190	480	4300	140	100	1000	7700	58	.03	.01	.04
	NITRO- GEN·AM- MONIA + ORGANIC DIS. (MG/L	PHOS- PHORUS, TOTAL (MG/L	ARSENIC TOTAL (UG/L	ARSENIC DIS- SOLVED (UG/L	BERYL- LIUM, TOTAL (UG/L	BERYL- LIUM, DIS- SOLVED (UG/L	CADMIUM TOTAL (UG/L	CADMIUM DIS- SOLVED (UG/L	CHRO- MIUM, TOTAL (UG/L	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L	COPPER, TOTAL (UG/L	COPPER+ DIS- SOLVED (UG/L
DATE	AS N)	AS P)	AS AS)	AS AS)	AS BE)	AS BE)	AS CD)	AS CD)	AS CR)	AS CR)	AS CU)	AS CU)
OCT					1.0	10	0	0	60	0	5	1
28 NOV	.49	.13	2	1	10	10						4
18 DEC	1.0	.05	0	0	20	10	0	0	40	0	6	3
10	.88	.04	0	0	10	10	0	0	70	0	4	0
20	.47	.05	1	0	10	10	0	0	60	0	5	0

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

291618089564900 BARATARIA BAY WATERWAY AT MILE 0.8, NEAR GRAND ISLE, LA (CE 82876)--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON. DIS- SOLVED (UG/L AS FE)	TO (U	AD. TAL G/L PB)	LEAD. DIS- SOLVED (UG/L AS PB)	((RCURY OTAL JG/L G HG)	MERCURY DIS- SOLVED (UG/L AS HG)	TO (U	KEL, TAL IG/L NI)	DIS SOL (UG AS	VED T	ELE- IIUM. OTAL UG/L S SE)	DI SOL	VED T	INC, OTAL UG/L S ZN)	ZINC, DIS- SOLVE (UG/L AS ZN	OR D T	RBON, GANIC OTAL MG/L S C)
28	550		4	2		, 0	.0		7		4	0		0		4	0	
NOV 18	150		3	2		.0	.0		6		0	0		0	40	4		4.8
DEC 10	160		3	0		.0	.0		3		0	0		0	40	4	0	5.4
JAN 20	60		5	7		• 0	.0		7		0	0		0		2		6.3
200																		
DAT	CYANI TOTA (MG/ E AS C	L L	PHENOL	S GRA	SE,	PCE TOTA (UG/L	TH LEN PC CHL LL TOT	PH- HA- NES, DLY- OR. TAL	ALDRIN TOTAL (UG/L		CHLOR- DANE, TOTAL (UG/L)	TOTA	L	DDE. TOTAL (UG/L)	DDT, TOTAL (UG/L	AZ T	DI- INON, OTAL UG/L)	
ост			100.0			, , , , ,	., ,,,		,		100,21	,	-	100.2				
28. NOV		00		0	0		0	. 0	.00	0.0	• 0	.0	000	.000	.00	0	.00	
18. DEC		00		0	0		0	. 0	.00	0.0	• 0	. (000	.000	.00	0	.01	
10.		00		3	0	<.	1	<.1	<.00)1	<.1	<.0	01	<.001	<.00	1	<.01	
20.		0.0		0	0	۲,	1	<.1	<.00)1	<.1	<.0	01	<.001	<.00	1	<.01	
DAT	DI- ELDR TOTA E (UG/	RIN	ENDO- SULFAN TOTAL (UG/L	ENDF		ETHIC TOTA (UG/	N, CHL	PTA- LOR, TAL S/L)	HEPTA CHLOR EPOXIC TOTAL (UG/L	₹ DE	LINDANE TOTAL (UG/L)	TOTA	N.	METH- OXY- CHLOR, TOTAL (UG/L)	METHY PARA- THION TOTAL (UG/L	, _T	ETHYL TRI- HION, OTAL UG/L)	
OCT 28.	0	000	.00	00 .	000		.00	.000	.00	0.0	.000		00	.00	.0	0	.00	
NOV 18.	0	000	.00	00 .	002		,00	.000	.00	0.0	.000		00	.00	.0	0	.00	
DEC 10.	<.0	001	<.00)1 <.	001	۷.	01 <	.001	<.00)1	<.001	٧.	01	<.01	<.0	1	<.01	
JAN 20.	<.(01	<.00)1 <.	001	<.	.01 <	.001	<.00)1	<.001	۷,	01	<.01	<.0	1	<.01	
DAT	MIRE TOT E (UG/	TAL	PARA- THION TOTAL (UG/L	TH/	ER- ANE (AL 3/L)	TUX APHEN 10TA (UGA	NE TH	TAL RI- ION G/L)	2,4-1 TOTAL (UG/L	_	2, 4-DF TOTAL (UG/L)	2,4,5 TOTA (UGA	L	SILVEX, TOTAL (UG/L)	FLUORO	P P CH	LOR-B HYTO- LANK- TON ROMO UOROM UG/L)	
ост										0.0			0.0				000	
NOV		.00		00	.00		.0	.00		00	.00		00	.00			.000	
18. DEC		.00		0.0	•00		.0	.00		01	.00		,00	•00			.990	
JAN		.01	<.(.01			<.01		00	.00		.00	•00			.630	
20.	<.	01	<.0	01	.01	4	.1	<.01	• •	00	.00		00	.00	6.69)	.000	

< Actual value is known to be less than the value shown.

07381000 BAYOU LAFOURCHE AT THIBODAUX, LA

LOCATION.-Lat 29°47'52", long 90°49'21", in lot 117, T. 15 S., R. 16 E., Lafourche Parish, Hydrologic Unit 08090301, on downstream side of left pier of drawspan of bridge on State Highway 20 at Thibodaux, and 2.7 mi (4.3 km) upstream from Laurel Valley Canal.

PERIOD OF RECORD.--April 1966 to current year (elevations only). Unpublished records, May 1954 to July 1957, available in files of Baton Rouge district office.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development, Office of Public Works).

REMARKS.--Pumping plant at Donaldsonville pumps total flow of Bayou Lafourche from Mississippi River except for small amounts of storm drainage during heavy runoff. Artificial control located about 1,000 ft (300 m) downstream since Nov. 5, 1968.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 7.64 ft (2.329 m) Apr. 17, 1973; minimum, 0.82 ft (0.250 m) Dec. 2, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 6.75 ft (2.057 m) Feb. 10; minimum, 4.80 ft (1.463 m) Nov. 8.

ELEVATION	(FEET NGVD)	WATER YE	AR OCTOBER	1980 TO	SEPTEMBER	1981
	INSTANTANE	US OBSERV	ATIONS AT	0800		

DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.25	5.28	5.07	5.39	5.21	5.07	5.12	5.25	5.03	5.02	5.27	5.43
2	5.22	5.28	5.05	5.39	5.42	5.05	5.14	5.28	5.09	5.00	5.31	5.42
3	5.21	5.30	4.98	5.39	5.29	4.99	5.17	5.31	5.04	5.14	5.32	5.37
4	5.16	5.19	4.95	5.39	5.26	4.96	5.20	5.31	5.00	5.06	5.36	5.41
5	5.15	5.05	4.97	5.38	5.23	4.98	5.25	5.54	5.00	5.10	5.46	5.32
6	5.14	5.01	5.12	5.38	5.82	4.95	5.24	5.39	5.00	5.15	5.41	5.23
7	5.30	4.99	5.36	5.40	5.63	4.95	5.13	5.32	5.11	5.06	5.36	5.28
8	5.45	4.94	5.43	5.39	5.44	5.00	4.99	5.28	5.14	5.22	5.35	5.23
9	5.51	4.88	5.29	5.39	5.32	5.04	5.05	5.27	5.05	5.13	5.35	5.21
10	5.54	4.99	5.32	5.41	6.27	5.04	5.28	5.32	4.98	5.09	5.35	
11	5.40	4.99	5.24	5.42	6.34	5.06	5.37	5.27	5.99	5.14	5,35	
12	5.26	5.00	5.15	5.42	5.71	5.06	5.42	5.24	5.53	5.24	5.34	
13	5.22	5.01	5.11	5.40	5.35	5.07	5.43	5.23	5.24	5.20	5.33	
14	5.32	5.14	5.12	5.40	5.16	5.05	5.41	5.24	5.17	5.14	5.37	
15	5.47	5.37	5.09	5.40	5.11	5.05	5.42	5.23	5.14	5.09	5.32	
16	5.53	5.41	5.07	5.40	5.30	5.01	5.42	5.24	5.09	5.05	5.29	
17	5.51	5.51	5.05	5.41	5.20	4.96	5.36	5.36	5.07	5.01	5.23	
18	5.52	5.23	5.08	5.42	5.10	4.98	5.30	5.42	5.07	4.97	5.18	
19	5.59	5.04	5.00	5.42	5.15	4.94	5.29	5.34	5.08	5.00	5.17	
20	5.56	4.98	4.95		5.40	4.93	5.25	5.34	5.00	4.99	5.18	
21	5.50	4.99	5.09		5.47	4.95	5.21	5.29	5.04	4.94	5.21	
22	5.31	5.15	5.15		5.50	5.03	5.20	5.16	5.04	4.93	5.20	
23	5.10	5.71	5.18	5.40	5.49	5.00	5.20	5.04	5.15	4.95	5.22	
24	5.04	5.48	5.25	5.39	5.46	4.95	5.23	5.04	5.12	4.95	5.22	
25	4.99	5.28	5.19	5.29	5.46	4.94	5.19	5.01	5.10	4.95	5.26	
26	4.96	5.54	5.19	5.24	5.36	4.94	5.23	5.08	5.15	5.00	5.20	
27	4.97	5.50	5.22	5.21	5.15	4.93	5.23	5.02	5.18	5.01	5.28	
28	5.48	5.28	5.21	5.21	5.09	4.91	5.22	5.05	5.18	5.04	5.40	
29	5.51	5.17	5.22	5.20		5.04	5.23	5.12	5.09	5.09	5.43	
30	5.43	5.11	5.26	5,22		5.39	5.23	5.04	5.05	5.23	5.64	
31	5.30		5.35	5.21		5.25		5.03		5.31	5.58	
MEAN	5.32	5.19	5.15		5.42	5.02	5.25	5.23	5.13	5.07	5.32	
MAX	5.59	5.71	5.43		6.34	5.39	5.43	5.54	5.99	5.31	5.64	
MIN	4.96	4.88	4.95		5.09	4.91	4.99	5.01	4.98	4.93	5.17	

07381350 COMPANY CANAL AT LOCKPORT, LA

LOCATION.--Lat 29°38'42", long 90°32'41", in SW1/4 sec.18, T.16 S., R.19 E., Lafourche Parish, Hydrologic Unit 08090302, at center of bridge on State Highway 1 at Lockport.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1956, 1979 to current year.

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: July 1979 to current year. WATER TEMPERATURES: December 1980 to September 1981.

INSTRUMENTATION.--Specific conductance recorder from July 25, 1979 to Dec. 15, 1980. Mini-monitor installed December 16, 1980.

EXTREMES FOR PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: Maximum, 1,780 micromhos Apr. 24, 1981; minimum, 166 micromhos Feb. 12, 1981.

SPECIFIC CONDUCTANCE: Maximum, 1,780 micromhos Apr. 24; minimum, 166 micromhos Feb. 12. WATER TEMPERATURES: Maximum, 34.5°C July 19; minimum, 6.5°C Dec. 31, Jan. 5, 6.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
		OBER	NOVE			MBER		IUARY	FEBR	III A D V	м.	RCH
	001	UHER	NOVE.	HREK	DECE	MHER	JAN	OART	LEBA	UAKI	FIA	INCH
1	485	451	421	319	413	299	668	498	1210	531	362	322
5	459	444	380	268	398	323	557	507	1010	529	360	320
3	465	448	347	277	430	278	557	517	867	617	408	318
4	461	418	555	354	411	314	536	516	854	544	426	326
	480	405	380	269	374	319	546	526	832	502	424	314
5	480	405	300	209	3/4	319	540	320	632	302	727	314
6	431	416	297	271	355	324	555	535	480	380	422	322
7	435	398	370	293	384	335	625	545	518	338	371	311
8	407	392	367	353	369	350	604	574	515	475	449	349
9	409	388	384	360	475	360			543	383	437	337
10	416	402	396	364	568	413			401	281	325	305
11	488	412	542	373	570	382	222		309	229	323	303
15	486	463	447	380	377	341			306	166	401	311
	484	423	409	331	350	346			324	264	389	329
13				326	377	350			286	236	357	327
14	450	425	338		375	369			277	207	355	335
15	431	425	411	333	3/5	309			211	201	333	333
16	433	412	461	381	500	375			359	219	373	333
17	434	417	409	381	509	489			330	550	351	311
18	429	404	402	375	518	488			372	232	359	309
19	417	404	373	361	537	507			393	243	367	307
20	425	415	376	366	546	526			285	245	325	305
21	425	412	415	370	535	525			347	257	333	313
22	432	411	532	394	524	514			368	298	361	341
23	436	419	874	441	522	502	572	552	460	270	350	320
24	487	415	1180	562	671	491	559	549	291	271	338	308
25	483	457	910	538	610	480	757	537	383	283	336	316
25	483	457	910	536	610	400	131	337	303	203	330	310
26	472	446	803	258	519	479	825	685	394	354	354	324
27	523	457	445	251	508	478	783	573	386	366	352	342
28	497	189	436	398	487	477	910	590	544	344	350	330
29	249	185	445	392	496	479	1150	678			348	328
30	345	251	422	409	499	479	1040	636			1620	356
31	360	307			498	488	1000	534			474	304
MONTH	523	185	1180	251	671	278	-44		1210	166	1620	303

07381350 COMPANY CANAL AT LOCKPORT, LA--Continued

SPECIFIC CUMDUCTANCE (MICROMHUS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	AF	PRIL		MAY	J	JNE	JU	JLY	AUG	SUST	SEP	TEMBER
,		24.0	1160	060	0.22	502	4.22	202	404	4.24		
2	460 486	340 326	1150 989	968 429	833 582	503 492	422	392	496 495	436 325		
3	342	322	510	440	552	432	420	330	484	414		
4	549	339	581	441	471	411	470	320	473	363		
5	775	365	502	402	570	450	559	449	482	372		
2	100	4.1					2.00			5.44		
6	651	361	423	383	825	475	588	538	491	411		
7 8	497 393	367 373	493 614	393 444	880 816	780 756	557 456	397 336	500 509	400		
9	759	389	595	435	811	771	545	465	508	338		
10	536	396	1660	486	786	406	554	534	477	367		
11	432	402	1230	847	401	251	573	423			544	364
12	438	418	897	857	246	186	573	553			386	376
13 14	444	414	868 1330	828 719	231 287	171 217	552 581	512 531			398 450	378 400
15	426	406	1310	550	312	262	600	560			462	422
	, 20			330			000	500			402	,,,,,
16	416	396	1120	551	447	257	582	492			433	423
17	417	377	711	441	638	448	605	435			435	425
18	438	378	432	412	619	579	587	467			437	417
19	439	379	623	423	670	620	569	459			429	409
20	470	410	812	642	702	652	552	432			421	401
21	580	480	821	771	693	663	554	454			413	403
22	641	581	841	771	684	524	566	486			424	404
23	1250	592	880	550	635	525	578	478			435	385
24	1780	713	949	569	616	336	591	431			417	397
25	1280	514	608	508	537	357	503	443			448	378
26	434	424	878	530	4.30	210	F16	475			419	399
26 27	634 615	424	987	538 877	438 600	318 440	515 528	478			420	410
28	796	466	946	896	641	411	520	490			441	421
29	1080	797	945	885	622	372	529	499			472	432
30	1280	1020	945	885	423	343	558	508			443	433
31			884	804			557	467				
MONTH	1780	322	1660	383	880	171	605	320	222		544	364
MONTH	1760	366									344	304
			TEMPERATU	RE. WATER	(DEG. C)	. WATER	YEAR OCTOBE	R 1980	TO SEPTEMBE	ER 1981		
DAY			MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	XAM	MIN										
UAT	MAX	WIN										
UAT		TOBER		EMBER		EMBER	JAN	NUARY	FEB	RUARY	м	ARCH
				EMBER								
1				EMBER			8.5	7.5	16.5	15.0	20.0	19.0
1 2				EMBER		===	8.5	7.5 7.5	16.5 14.5	15.0 11.5	20.0	19.0 19.5
1 2 3				EMBER			8.5 9.5 9.0	7.5 7.5 7.5	16.5 14.5 12.0	15.0 11.5 10.0	20.0 20.5 19.5	19.0 19.5 18.5
1 2				EMBER		===	8.5	7.5 7.5	16.5 14.5	15.0 11.5	20.0	19.0 19.5
1 2 3 4				EMBER	DEC	===	8.5 9.5 9.0 8.5 8.0	7.5 7.5 7.5 7.0 6.5	16.5 14.5 12.0 11.5 11.0	15.0 11.5 10.0 10.5 10.0	20.0 20.5 19.5 19.0 19.5	19.0 19.5 18.5 18.5 18.6
1 2 3 4 5				EMBER	DEC	=======================================	8.5 9.5 9.0 8.5 8.0	7.5 7.5 7.5 7.0 6.5	16.5 14.5 12.0 11.5 11.0	15.0 11.5 10.0 10.5 10.0	20.0 20.5 19.5 19.0 19.5	19.0 19.5 18.5 18.5 18.0
1 2 3 4 5				ЕМВЕК	DEC	=======================================	8.5 9.5 9.0 8.5 8.0 7.5	7.5 7.5 7.5 7.0 6.5	16.5 14.5 12.0 11.5 11.0	15.0 11.5 10.0 10.5 10.0	20.0 20.5 19.5 19.0 19.5	19.0 19.5 18.5 18.5 18.0
1 2 3 4 5				Емвек	DECI	=======================================	8.5 9.5 9.0 8.5 8.0 7.5 8.0	7.5 7.5 7.5 7.0 6.5 6.5 7.0 7.5	16.5 14.5 12.0 11.5 11.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0	20.0 20.5 19.5 19.0 19.5	19.0 19.5 18.5 18.5 18.0 17.5 17.5
1 2 3 4 5 6 7 8				EMBER	DEC	=======================================	8.5 9.5 9.0 8.5 8.0 7.5	7.5 7.5 7.5 7.0 6.5	16.5 14.5 12.0 11.5 11.0	15.0 11.5 10.0 10.5 10.0	20.0 20.5 19.5 19.0 19.5	19.0 19.5 18.5 18.5 18.0 17.5 17.5 17.0 15.5
1 2 3 4 5				EMBER	DECI		8.5 9.5 9.0 8.5 8.0 7.5 8.0	7.5 7.5 7.5 7.0 6.5 6.5 7.0 7.5	16.5 14.5 12.0 11.5 11.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0	20.0 20.5 19.5 19.0 19.5	19.0 19.5 18.5 18.5 18.0 17.5 17.5
1 2 3 4 5 6 7 7 8 9 10 11				EMBER	DECI		8.5 9.5 9.0 8.5 8.0 7.5 8.0	7.5 7.5 7.5 7.0 6.5 7.0 7.5	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0 10.5 11.5 12.5	20.0 20.5 19.5 19.0 19.5 19.0 19.0 17.5 18.0	19.0 19.5 18.5 18.5 18.0 17.5 17.0 15.5 16.5
1 2 3 4 5 6 7 8 9 10				ЕМВЕК	DEC:		8.5 9.5 9.0 8.5 8.0 7.5 8.0	7.5 7.5 7.5 7.0 6.5 7.0 7.5	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0 10.5 11.5 12.5	20.0 20.5 19.5 19.0 19.5 19.0 19.0 17.5 17.5 18.0	19.0 19.5 18.5 18.5 18.0 17.5 17.5 17.0 15.5 16.0
1 2 3 4 5 6 7 8 9 10				EMBER	DECI		8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0	7.5 7.5 7.5 7.0 6.5 7.0 7.5 7.0	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0 10.5 11.5 12.5	20.0 20.5 19.5 19.0 19.5 19.0 19.0 17.5 17.5 17.5	19.0 19.5 18.5 18.5 18.0 17.5 17.5 17.0 15.5 16.5
1 2 3 4 5 5 6 7 8 9 10 11 12 13 14				EMBER	DECI		8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0	7.5 7.5 7.5 7.0 6.5 7.0 7.5 7.0	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0 10.5 11.5 12.5	20.0 20.5 19.5 19.0 19.5 19.0 17.5 17.5 17.5 17.5 17.5	19.0 19.5 18.5 18.5 18.0 17.5 17.5 17.5 16.5 16.0 16.0
1 2 3 4 5 6 7 8 9 10				EMBER	DECI		8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0	7.5 7.5 7.5 7.0 6.5 7.0 7.5 7.0	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0 10.5 11.5 12.5	20.0 20.5 19.5 19.0 19.5 19.0 19.0 17.5 17.5 17.5	19.0 19.5 18.5 18.5 18.0 17.5 17.5 17.0 15.5 16.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15				EMBER	DECI		8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0	7.5 7.5 7.5 7.0 6.5 7.0 7.5 7.0	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0 14.0 12.0 8.5 9.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0 10.5 11.5 12.5 12.0 8.5 8.0 8.0 9.0	20.0 20.5 19.5 19.0 19.5 19.0 17.5 17.5 18.0 17.5 17.5 18.0 19.5	19.0 19.5 18.5 18.5 18.0 17.5 17.0 15.5 16.0 16.0 16.0 17.0
1 2 3 4 5 5 6 7 8 9 10 11 12 13 14				EMBER	DECI		8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0	7.5 7.5 7.5 7.0 6.5 7.0 7.5 7.0 7.5	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0 10.5 11.5 12.5	20.0 20.5 19.5 19.0 19.5 19.0 17.5 17.5 17.5 17.5 17.5	19.0 19.5 18.5 18.5 18.0 17.5 17.5 17.5 16.5 16.0 16.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				EMBER	DECI		8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0	7.5 7.5 7.0 6.5 7.0 6.5 7.0 7.5 	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0 14.0 12.0 8.5 9.0 10.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0 10.5 11.5 12.5 12.0 8.5 8.0 9.0 10.5 13.0 14.0	20.0 20.5 19.5 19.0 19.5 19.0 19.0 17.5 17.5 18.0 17.5 17.5 17.5 17.5 19.0 19.5	19.0 19.5 18.5 18.5 18.0 17.5 17.5 17.0 15.5 16.0 16.0 16.0 17.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19				EMBER	DECI	 9.0 9.0 10.0	8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0	7.5 7.5 7.5 7.0 6.5 7.0 7.5 7.0 7.5	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0 14.0 12.0 8.5 9.0 10.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0 10.5 11.5 12.5 12.0 8.5 8.0 8.0 9.0	20.0 20.5 19.5 19.0 19.5 19.0 17.5 17.5 18.0 17.5 17.5 18.0 19.5	19.0 19.5 18.5 18.5 18.0 17.5 17.5 17.0 15.5 16.0 16.0 16.0 17.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18				EMBER	DECI		8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0	7.5 7.5 7.0 6.5 7.0 6.5 7.0 7.5 	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0 14.0 12.0 8.5 9.0 10.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0 10.5 11.5 12.5 12.0 8.5 8.0 9.0 10.5 13.0 14.0	20.0 20.5 19.5 19.0 19.5 19.0 19.0 17.5 17.5 18.0 17.5 17.5 17.5 17.5 19.0 19.5	19.0 19.5 18.5 18.5 18.0 17.5 17.5 17.0 15.5 16.0 16.0 16.0 17.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20				EMBER	DECI	9.0	8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0	7.5 7.5 7.0 6.5 7.0 6.5 7.0 7.5 	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0 14.0 12.0 8.5 9.0 10.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0 10.5 11.5 12.5 12.0 8.5 8.0 9.0 10.5 13.0 14.0 15.0	20.0 20.5 19.5 19.0 19.5 19.0 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	19.0 19.5 18.5 18.5 17.5 17.5 17.5 16.0 16.0 16.0 16.0 17.0 17.5 17.5 17.5 17.5 17.5 17.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21				EMBER	DECI	9.0 9.0 9.5	8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0	7.5 7.5 7.5 7.0 6.5 7.0 7.5 7.0 7.5	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0 14.0 12.0 8.5 9.0 10.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0 10.5 11.5 12.5 12.0 8.5 8.0 9.0 10.5 13.0 14.0 15.0 16.5	20.0 20.5 19.5 19.0 19.5 19.0 19.0 17.5 17.5 17.5 17.5 17.5 17.5 18.0 19.5 20.0 18.5 17.0	19.0 19.5 18.5 18.5 18.0 17.5 17.5 17.0 15.5 16.0 16.0 16.0 17.0 17.5 17.5 17.5 17.5 17.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20				EMBER	DECI	9.0	8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0	7.5 7.5 7.0 6.5 7.0 6.5 7.0 7.5 	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0 14.0 12.0 8.5 9.0 10.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0 10.5 11.5 12.5 12.0 8.5 8.0 9.0 10.5 13.0 14.0 15.0	20.0 20.5 19.5 19.0 19.5 19.0 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	19.0 19.5 18.5 18.5 18.0 17.5 17.5 17.5 16.0 16.0 16.0 16.0 17.0 17.5 17.5 17.5 17.5 17.5
1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22				EMBER	DECI	9.0 9.0 9.5 10.0	8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0	7.5 7.5 7.0 6.5 7.0 6.5 7.0 7.5 7.0 7.5	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0 14.0 12.0 8.5 9.0 10.0 13.0 15.0 17.0 20.0	15.0 11.5 10.0 10.5 10.0 9.0 10.5 11.5 12.5 12.0 8.5 8.0 9.0 10.5 13.0 14.0 14.0 15.0 16.5	20.0 20.5 19.5 19.0 19.5 19.0 19.0 17.5 17.5 18.0 17.5 17.5 18.0 19.5 19.5 19.0 19.5 19.0 19.5	19.0 19.5 18.5 18.5 18.0 17.5 17.5 17.5 16.0 16.0 16.0 17.0 17.5 17.5 17.5 17.5 17.5 17.5 17.5
1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23				EMBER	DECI	9.0 9.0 10.0 9.5	8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0	7.5 7.5 7.0 6.5 7.0 6.5 7.0 7.5 	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0 14.0 12.0 8.5 9.0 10.0 15.5 17.0 20.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0 51.5 12.5 12.0 8.5 8.0 9.0 10.5 13.0 14.0 15.0 16.5	20.0 20.5 19.5 19.0 19.5 19.0 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	19.0 19.5 18.5 18.5 17.5 17.5 17.5 16.5 16.0 16.0 16.0 17.0 17.5 17.5 17.5 13.5
1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25				EMBER	DECO	9.0 9.0 10.0 9.5 10.0 9.5	8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0 	7.5 7.5 7.0 6.5 7.0 6.5 7.0 7.5 7.0 7.5 7.5 7.5 7.5	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0 14.0 12.0 8.5 9.0 10.0 15.5 17.0 20.0 19.5 19.0 17.5 19.0 18.5	15.0 11.5 10.0 10.5 10.0 9.0 10.5 11.5 12.5 12.0 8.5 8.0 9.0 10.5 13.0 14.0 15.0 16.5 17.5 16.5 17.5	20.0 20.5 19.5 19.0 19.5 19.0 19.0 17.5 17.5 18.0 17.5 18.0 19.5 20.0 18.5 17.5 18.5 17.0 18.5	19.0 19.5 18.5 18.5 17.5 17.5 17.5 16.0 16.0 16.0 17.0 17.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26				EMBER	DECI	9.0 9.0 9.0 10.0 9.5 10.0 9.5	8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0 	7.5 7.5 7.0 6.5 7.0 6.5 7.0 7.5 	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0 14.0 15.0 14.0 15.0 15.0 17.0 20.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0 10.5 11.5 12.5 8.0 8.0 9.0 10.5 13.0 14.0 15.0 16.5 17.5 17.5 17.5 17.5 17.5	20.0 20.5 19.5 19.0 19.5 19.0 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	19.0 19.5 18.5 18.5 17.5 17.5 17.5 16.0 16.0 16.0 17.0 17.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27				EMBER	DECI	9.0 9.0 9.5 10.0 9.5 10.0 10.5	8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0 	7.5 7.5 7.0 6.5 7.0 6.5 7.0 7.5 7.5 8.5	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0 14.0 15.0 15.0 14.0 17.0 18.5 17.0 20.0 19.5 19.0 18.5	15.0 11.5 10.0 10.5 10.0 9.0 10.0 10.5 11.5 12.5 8.0 8.0 9.0 10.5 13.0 14.0 15.0 16.5 17.5 17.5 16.5 17.5	20.0 20.5 19.5 19.0 19.5 19.0 19.0 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	19.0 19.5 18.5 18.5 18.0 17.5 17.5 17.0 15.5 16.0 16.0 17.0 17.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28				EMBER	DECO	9.0 9.0 9.5 10.0 9.5 10.0 10.5 10.0	8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0 	7.5 7.5 7.0 6.5 7.0 6.5 7.0 7.5 7.5 7.5 8.5 7.5 8.1	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0 14.0 15.0 14.0 15.0 15.0 17.0 20.0	15.0 11.5 10.0 10.5 10.0 9.0 10.0 10.5 11.5 12.5 8.0 8.0 9.0 10.5 13.0 14.0 15.0 16.5 17.5 17.5 17.5 17.5 17.5	20.0 20.5 19.5 19.0 19.5 19.0 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	19.0 19.5 18.5 18.5 18.0 17.5 17.5 17.5 16.0 16.0 16.0 17.0 17.5 17.5 17.5 13.5 15.5 16.0 16.0 17.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27				EMBER	DECI	9.0 9.0 9.5 10.0 9.5 10.0 10.5	8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0 	7.5 7.5 7.0 6.5 7.0 6.5 7.0 7.5 7.5 8.5	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0 14.0 12.0 8.5 9.0 10.0 15.0 17.0 20.0 19.5 19.0 18.5	15.0 11.5 10.0 10.5 10.0 9.0 10.5 11.5 12.5 12.0 8.5 8.0 9.0 10.5 11.5 12.5 12.5 13.0 14.0 15.0 16.5 17.5 16.5 17.5 16.5 17.5	20.0 20.5 19.5 19.0 19.5 19.0 19.5 17.5 18.0 17.5 17.5 18.0 19.5 20.0 18.5 17.0 18.5 17.0 18.5 17.0 18.5 17.0	19.0 19.5 18.5 18.5 17.5 17.5 17.5 16.0 16.0 16.0 17.0 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29				EMBER	DECC	9.0 9.0 10.0 9.5 10.0 10.5 10.0 10.5	8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0 	7.5 7.5 7.0 6.5 7.0 6.5 7.0 7.5 7.5 7.5 7.5 8.5	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0 14.0 12.0 8.5 9.0 10.0 13.0 15.5 17.0 20.0 19.5 19.0 19.5 19.0 19.5 19.0 19.5	15.0 11.5 10.0 10.5 10.0 9.0 10.5 11.5 12.5 8.0 8.0 9.0 10.5 11.5 12.5 12.0 8.5 8.0 9.0 10.5 11.5 12.5 13.0 14.0 15.5 17.5 1	20.0 20.5 19.5 19.0 19.5 19.0 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	19.0 19.5 18.5 18.5 18.0 17.5 17.5 17.5 16.0 16.0 17.0 17.5 17.5 17.5 13.5 15.5 16.0 16.0 17.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30				EMBER	DECI	9.0 9.0 9.0 10.0 9.5 10.5 10.0 10.5 10.0 7.5	8.5 9.5 9.0 8.5 8.0 7.5 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	7.5 7.5 7.0 6.5 7.0 6.5 7.0 7.5 7.5 7.5 8.5 10.5 11.0 11.0 11.0	16.5 14.5 12.0 11.5 11.0 10.0 11.0 12.0 13.0 15.0 14.0 12.0 8.5 9.0 10.0 13.0 15.0 15.5 17.0 20.0 19.5 19.0 17.5 19.0 18.5	15.0 11.5 10.0 10.5 10.0 9.0 10.5 11.5 12.5 8.0 8.0 9.0 10.5 11.5 12.5 8.1 12.5 13.0 14.0 15.0 16.5 17.5 17.5 16.5 17.5	20.0 20.5 19.5 19.0 19.5 19.0 17.5 17.5 18.0 17.5 17.5 18.0 19.5 20.0 18.5 17.0 18.5 17.5 18.0 20.5	19.0 19.5 18.5 18.5 18.0 17.5 17.5 17.5 16.0 16.0 16.0 17.0 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 18.6

MISSISSIPPI RIVER DELTA 07381350 COMPANY CANAL AT LOCKPORT, LA--Continued

TEMPERATURE WATER (DEG. C) WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN										
On.		IN TIM	MAX	MIN								
	Д	PRIL	,	MAY	J	JNE	Ju	JLY	AUG	SUST	SEPT	TEMBER
			5000								200	20 -
1	23.5	22.5	28.0	27.0	30.5	29.0	31.5	29.5	31.5	29.5	29.5	28.5
2	23.0	22.5	27.5	26.0	31.5	28.5	30.5	29.0	30.5	28.0	29.5	28.0
3	24.5	22.5	26.5	25.5	30.5	29.5	30.5	28.5	31.0	29.0	30.0	28.5
4	24.5	23.0	25.5	25.0	30.5	29.0	29.5	28.0	31.0	29.5	31.0	28.0
5	24.5	23.5	26.0	23.5	29.5	28.5	29.0	28.0	30.5	29.5	30.5	29.5
6	24.5	22.0	25.5	24.5	30.0	28.5	30.5	28.5	32.0	29.5	30.5	29.0
7	24.0	21.5	26.0	23.5	31.0	29.0	31.0	29.0	32.5	30.0	31.0	29.0
8	23.5	0.55	25.5	23.5	31.5	30.0	32.0	29.5	32.0	30.0	31.0	30.0
9	25.0	22.5	26.0	24.5	32.0	31.0	32.5	30.5	31.5	30.5	31.0	29.5
10	26.0	23.0	26.0	24.5	35.0	31.0	32.5	31.0	31.5	30.5	31.0	28.5
11	25.0	23.5	26.0	24.0	31.0	29.5	31.0	29.5	32.0	30.0	30.5	28.5
12	26.0	24.0	26.5	23.5	30.5	28.5	31.5	29.5	32.0	30.0	30.5	29.0
13	26.0	24.5	27.5	24.5	31.0	29.0	32.0	29.5	32.0	30.0	30.5	28.5
14	26.0	24.5	27.0	25.0	31.5	29.5	33.0	30.5	32.0	30.0	30.0	28.5
15	26.0	24.5	27.5	25.5	33.0	30.0	33.5	32.0	32.5	30.0	28.5	28.0
16	26.0	24.5	27.0	25.5	31.5	30.5	34.0	31.5	33.5	31.0	29.0	27.0
17	26.0	24.5	28.0	25.5	32.5	31.0	33.5	31.5	33.0	31.5	28.5	26.5
18	26.0	24.5	27.5	26.5	33.0	31.5	33.5	31.5	34.0	31.5	27.0	25.0
19	26.5	25.0	27.0	25.5	34.0	31.5	34.5	31.5	34.0	32.0	26.0	24.0
20	27.5	25.0	26.5	25.0	34.0	31.5	34.0	32.0	33.0	31.5	26.0	24.0
21	27.5	25.5	25.5	24.0	33.5	32.0	34.0	32.0	32.0	31.0	26.5	24.5
22	27.5	26.0	26.0	23.5	32.5	31.5	34.0	31.5	31.5	30.5	27.0	24.5
23	27.0	26.0	27.0	24.5	31.5	30.5	32.5	31.0	32.0	30.0	27.5	25.0
24	25.5	24.5	28.5	25.5	31.5	29.5	33.5	32.0	31.0	30.0	27.0	25.5
25	24.5	23.5	27.5	26.5	31.0	29.5	33.5	31.5	31.0	29.5	28.0	26.0
26	25.0	23.0	27.5	26.0	31.0	29.5	33.0	31.5	31.0	29.5	28.5	26.5
27	26.0	23.5	30.5	27.0	32.0	29.5	33.0	31.5	30.5	29.0	28.0	27.0
28	26.5	23.5	32.0	28.5	31.5	30.0	32.5	31.0	30.0	29.0	29.0	27.0
29	28.0	25.5	31.5	29.0	31.0	30.0	33.0	30.5	29.0	27.5	29.0	27.0
30	29.0	27.0	31.5	29.5	31.5	29.0	32.5	31.0	28.5	27.5	29.0	21.0
31			31.0	29.5			32.0	30.5	29.5	27.5		
MONTH	29.0	21.5	32.0	23.5	34.0	28.5	34.5	28.0	34.0	27.5	31.0	24.0

07381200 BAYOU LAFOURCHE AT VALENTINE, LA

LOCATION.--Lat 29°35'35", long 90°28'25", on line between lots 96 and 98, T.17 S., R.20 E., Lafourche Parish, Hydrologic Unit 08090301, on upstream side of bridge on State Highway 308, at Valentine, 5.2 mi (8.4 km) upstream from Intracoastal Waterway, and 5.7 mi (9.2 km) south of Lockport.

PERIOD OF RECORD. -- April 1966 to current year (elevations only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1968, at datum 2.98 ft (0.908 m) lower.

REMARKS.--Pumping plant at Donaldsonville pumps total flow of Bayou Lafourche from Mississippi River except for small amounts of storm drainage during heavy runoff. Elevation affected by tide at all stages.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 3.50 ft (1.067 m) Apr. 13, 1980; minimum, -0.18 ft (-0.055 m) Feb. 9, 1968 (present datum).

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 2.74 ft (0.835 m) Feb. 11; minimum recorded, 0.47 ft (0.143 m) Mar. 25.

FLEVATION (FEFT NGVD). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

				INST	ANTANEOUS	OBSERVAT	IONS AT 0	800				
DAY	001	VOV	DEC	JAN	FER	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.73	1.22			1.44	1.42	1.92	1.52	1.87	1.89	1.60	2.10
2	1.52	1.16			1.62	1.45	1.63	1.37	1.98	1.91	1.55	2.17
3	1.40	1.18			1.10	1.38	1.68	1.53	2.01	2.05	1.57	2.07
4	1.13	1.27			1.01	1.56	1.89	1.76	2.05	2.05	1.61	2.03
5	1.37	1.02			1.02	1.87	1.91	2.23	2.12	2.12	1.62	1.89
6	1.03	1.10			1.39	1.53	1.47	2.25	2.18	2.13	1.51	1.85
7	1.04	1.23			1.43	1.41	1.28	2.09	2.09	2.19	1.45	1.80
8	1.18	1.34			1.60	1.44	1.49	1.99	1.90	2.17	1.47	1.77
9	1.33	1.51			1.45	1.26	1.66	2.04	1.82	1.95	1.38	1.69
10	1.42	1.53			2.06	1.05	1.67	2.16	1.82	1.70	1.28	1.66
11	1.40				2.73	.97	1.71	1.83	2.10	1.64	1.27	1.76
15	1.24				2.49	1.07	1.73	1.73	2.17	1.71	1.37	1.86
13	1.17				2.11	1.19	1.75	1.65	2.23	1.77	1.48	1.83
14	1.17					1.21	1.71	1.75	2.30	1.66	1.59	1.85
15	1.23					1.27	1.58	1.68	2.33	1.51	1.55	1.94
16	1.36					1.30	1.47	1.50	2.28	1.44	1.53	1.83
17	1.48					1.07	1.58	1.90	2.14	1.43	1.57	1.61
18	1.75					1.27	1.73	2.03	1.97	1.38	1.53	1.36
19	1.69					1.12	1.68	2.01	1.87	1.41	1.57	1.16
20	1.47					.67	1.63	2.05	1.80	1.37	1.48	1.30
21	1.18					.80	1.57	1.69	1.76	1.35	1.38	1.44
55	1.21					1.25	1.50	1.54	1.76	1.27	1.42	1.44
23	1.34			.67		1.06	1.62	1.60	1.83	1.21	1.54	1.38
24	1.53			.75		•58	1.68	1.69	1.74	1.30	1.73	1.31
25	1.24			.93		.49	1.54	1.83	1.83	1.63	1.78	1.24
26	1.08			1.16		.55	1.64	2.09	1.89	1.73	1.80	1.39
27	1.26			1.55		.83	1.68	1.96	1.73	1.83	1.95	1.57
28	5.25			1.38	1.26	1.10	1.65	1.82	1.62	1.79	2.01	1.66
29	2.31			1.35		1.48	1.72	1.75	1.67	1.66	2.07	1.72
30	2.02			1.45		1.93	1.65	1.74	1.83	1.60	2.25	1.70
31	1.53			1.32		1.93		1.79		1.61	5.55	
MEAN	1.42					1.21	1.65	1.82	1.96	1.69	1.62	1.68
MAX	2.31				2.73	1.93	1.92	2.25	2.33	2.19	2.25	2.17
MIN	1.03					.49	1.28	1.37	1.62	1.21	1.27	1.16

77

07381230 BAYOU LAFOURCHE (AT INTRACOASTAL WATERWAY) AT LAROSE, LA (CE 82203)

LOCATION.--Lat 29°34'20", long 90°23'02", T.17 S., R.20 E., Lafourche Parish, Hydrologic Unit 08090301, at intersection with Intracoastal Waterway and at mile 35.3 (56.8 km) (WHL).

PERIOD OF RECORD. -- Water years 1974 to current year.

PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: October 1976 to September 1979, October 1980 to September 1981. CHLORIDE: October 1974 to current year.

REMARKS .-- Flow direction is dependent upon tide and upon wind velocity.

COOPERATION. -- Samples are collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: Maximum daily, 32.5°C July 28, 29, 1977; minimum daily, 6.0°C Jan. 19, 20, 1977, Jan. 20-23, 1978. CHLORIDE: Maximum daily, 6,700 mg/L Oct. 25, 1976; minimum daily, 18 mg/L Aug. 5, 1975.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURES: Maximum daily, 32.0°C several days in July and August; minimum daily, 8.0°C Jan. 13, Feb. 13, 14. CHLORIDE: Maximum daily, 4,000 mg/L Jan. 21; minimum daily, 26 mg/L Feb. 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND. BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
ост												
28	1155	704	7.6	15	6.0	<1.0	6.4	34	1.3	15000	K15000	160
NOV 18 DEC	1208	1700	7.3	40	85	<1.0	7.2	44	•2	620	250	230
10 JAN	1317	1440	7.6	30	130	<1.0	7.5	44	1.5	144	440	200
20	1155	1180	7.3	20	200	<1.0	10.6	62	2.7	K600	140	200
DATE OCT	HARD- NESS. NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM. DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE: DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN. NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
28	71	34	18	120	7.9	88	58	210	100	.90	.02	.92
18	160	38	34	270	10	75	69	490	142	.98	.02	1.0
DEC 10	110	36	26	190	9.8	84	72	340	106	.64	.08	.72
JAN 20	110	41	24	160	6.6	92	73	270	100	•58	• 04	.62
DATE	NITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER* TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)
OCT		27	3	1	0	<1	0	<1	0	0	20	4
NOV	1.3	.37								0	29	4
18 DEC	1.2	.20	2	0	0	<1	0	<1	10			
10	.77	.08	3	1	0	1	0	1	20	0	10	3
20	1.3	.09	4	0	0	0	0	0	10	0	12	2

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

07381230 BAYOU LAFOURCHE (AT INTRACOASTAL WATERWAY) AT LAROSE, LA (CE 82203) -- Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON. DIS- SOLVED (UG/L AS FE)	RE ER	COV- ABLE S	EAD, DIS- SOLVED UG/L (S PB)	TO RE ER (U	CURY TAL P COV- ABLE G/L HG)	MERCU DIS SOLV (UG/ AS H	JRY S- VED VL	NICKEL TOTAL RECOV ERABL (UG/L AS NI	. N /- .E	ICKE DIS- SOLV (UG/ AS N	ED 'L	SELE NIUM TOTA (UG/ AS S	- L L	SELE NIUM DIS SOLY (UG/ AS	4, 5 5- F VED E	ZING TOTA RECO ERAE (UGA	AL OV- BLE /L	SOL (UG	S- VED	CARBON ORGANI TOTAL (MG/L AS C)
OCT 28	50		6	0		• 0		. 0		8		3		0		0		30		8	_
NOV 18	100		7	2		• 0		. 0		6		2		0		0		50		7	11
DEC 10	20		9	0		• 0		.0		8		3		0		0		80		8	15
JAN	20		57	7		.0		.0		3		0		1		0		50		10	21
20	20		31			••		• •													
DAT	CYANI TOTA (MG/ E AS C	L	PHENOLS	METE	SE, AL DV. VI- RIC	PCB TOTAL (UG/L		NAPH- THA- LENES POLY CHLOF TOTAL (UG/L	- S, Y- R. AL	DRIN OTAL UG/L	,	CHLOR. DANE, TOTAL (UG/L)		DDD. TOTAL (UG/L		DDE. TOTAL (UG/L))	DDT. TOTAL		DI- AZING TOTA	ON.
OCT 28.		00	0	1	0		0		. 0	.00	0		0	.00	0	.000	0	.00	0		01
NOV 18.		00	2	2	0		0		. 0	.00	0		0	.00	0	.000	0	.00	0		.01
DEC 10.		00	0)	1	۷.	1	<	. 1	<.00	1	٧.	1	<.00	1	<.00	1	<.00	1		01
JAN 20.		00	C)	0	۷,	1	<	. 1	<.00	1	٠.	1	<.00	1	<.00	1	<.00	1	<	.01
DAT	DI- ELDR TOTA E (UG/	IN	ENDO- SULFAN, TOTAL (UG/L)	TOT	AL	ETHION TOTAL (UG/I	L	HEPTA CHLOF TOTAL (UG/L	A- C R, EP L T	HEPTA CHLOR POXID TOTAL UG/L	E L	INDANE TOTAL (UG/L	Ε	MALA- THION TOTAL (UG/L	•	METH- OXY- CHLOR TOTAL (UG/L)		METHY PARA- THION TOTAL (UG/L	,	METH TRI THIC TOTA (UGA	[- DN, AL
0CT 28.	0	00	.000	. (000		00	.00	00	.00	0	.000	0	.0	0	.00	0	. 0	0	- 19	.00
NOV 18.		00	.000	. (000		00	.00	0.0	.00	0	.000	0	.0	0	.0	0	. 0	0 0		.00
DEC 10.		01	<.001	<.(001	۷.	01	<.00	01	<.00	1	<.001	1	<.0	1	<.0	1	<.0	1	<	01
JAN 20.		01	<.001	<.(001	۷.	01	<.00	01	<.00	1	<.00	1	<.0	1	<.0	1	<.0	01	<	.01
DAT	MIRE TO TE (UG,	TAL	PARA- THION TOTAL (UG/L	THA		TOX APHEN TOTA (UG/	E.	TOTA TRI THIO	- 2 N	2,4-0 TOTAL (UG/L		2, 4-D TOTAL (UG/L)		2,4,5- TOTAL (UG/L		SILVEX TOTAL (UG/L	•	CHLOR- PHYTO PLANF TON CHROMO FLUORO (UG/I	0- K- 0	CHLO PHY PLA TO CHRO FLUO (UG	TO- NK- N MO ROM
ост									0.0		13		.0	. (00	.0	0	13.1			000
NOV		.00	.0		.00		. 0		00		00	.0			00	.0		4.8	5		52
DEC		•00	.0		.00		. 0				00	.0			00	.0		2.9			000
10 JAN		.01	<.0		.01		. 1		01						00	.0		10.5			480
	<	.01	<.0	1 <	.01	<	. 1	<.	01	• (03	.0	, 0	•	. 0	• 0	•				7.50

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA 79
.7381230 BAYOU LAFOURCHE (AT INTRACOASTAL WATERWAY) AT LAROSE, LA (CE 82203) -- Continued

			TEMPERATUR	RE. WATER	(DEG. C)	WATER YE	AR OCTOBER	1980 TO	SEPTEMBER	1981		
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.0	20.0	14.0	10.0	13.0	16.0	21.0	26.0	28.0	30.0	32.0	29.0
2	27.0	17.0	14.0	11.0	13.0	16.0	21.0	26.0	28.0	29.0	32.0	29.0
3	25.0	17.0	14.0	11.0	12.0	17.0 17.0	21.0	26.0	29.0	29.0	32.0	29.0
5	25.0	17.0	16.0	10.0	11.0	18.0	55.0	25.0	29.0	29.0	30.0	29.0
6	23.0	19.0	14.0	10.0	11.0	18.0	22.0	25.0	29.0	29.0	30.0	30.0
7	23.0	19.0	16.0	10.0	11.0	18.0	22.0	25.0 25.0	29.0	30.0	30.0	30.0
8	22.0	19.0	17.0 18.0	11.0	11.0	18.0	22.0	25.0	30.0	31.0	30.0	30.0
10	23.0	19.0	18.0	11.0	11.0	17.0	22.0	25.0	30.0	30.0	30.0	30.0
11	23.0	19.0	16.0	11.0	10.0	17.0	22.0	24.0	30.0	30.0	30.0	30.0
12	22.0	19.0	15.0 15.0	9.0 8.0	9.0 8.0	16.0	22.0	24.0	30.0	30.0	30.0	30.0
14	21.0	20.0	14.0	9.0	8.0	16.0	23.0	25.0	30.0	31.0	30.0	30.0
15	22.0	20.0	14.0	9.0		17.0	24.0	25.0	30.0	31.0	30.0	30.0
16	22.0	20.0	16.0	10.0		17.0	24.0	25.0	31.0	32.0	31.0	30.0
17	23.0	21.0	14.0	9.0	11.0	17.0 17.0	24.0	25.0	30.0	32.0	31.0	30.0
18 19	23.0	21.0	14.0	9.0	12.0	17.0	24.0	26.0	31.0	32.0	32.0	30.0
20	23.0	21.0	14.0	9.0	14.0	16.0	25.0	25.0	30.0	32.0	32.0	30.0
21	22.0	21.0	13.0	9.0	14.0	16.0	25.0	25.0	31.0		31.0	30.0
23	22.0	19.0	12.0	9.0	15.0	16.0	26.0	25.0 25.0	31.0	32.0	31.0	30.0
24	22.0		13.0	9.0	16.0	16.0	25.0	25.0	30.0	32.0	31.0	30.0
25	21.0	15.0	13.0	10.0	16.0	16.0	25.0	26.0	30.0	32.0	30.0	30.0
26	21.0	14.0	11.0	10.0	16.0	16.0	25.0	26.0	29.0	32.0	30.0	30.0
27	55.0	12.0	11.0	11.0	16.0	17.0 17.0	25.0 25.0	26.0	29.0 30.0	32.0	29.0	30.0
28	25.0	12.0	10.0	12.0	16.0	18.0	25.0	27.0	30.0	31.0	29.0	30.0
30	0.55	13.0	10.0	12.0		19.0	26.0	27.0	30.0	31.0	29.0	30.0
31	22.0			13.0		20.0		27.0		31.0	29.0	
MIN	21.0	21.0	18.0 10.0	13.0 8.0	16.0 8.0	20.0	26.0	27.0 24.0	31.0	32.0	32.0 29.0	30.0
			CHLORIDE,	DISSOLVE		WATER YE	AR OCTOBER	1980 TO	SEPTEMBER	1981		
DAY	oct	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	60	400	85	910	64	1200	180	160	76	66	81
2	200	55	700	110	880	60	880	160	250	70	60	84
3	240	50	400	100	380	54	870	230	300	78 110	60	110
5	100	100	400 600	170 170	450 510	60 98	820 560	3400 3600	650 1200	110	70	51
6	120	90	550	180	540	160	500	1200	1200	110	66	46
7	120	120	850	180	520	150	450	1100	1200	290	83	49
8	260	85	900	780		78	760	170	82	110	62	48
10	260 310	85 80	850 300	2400 2400	510 470	60	780	180	140	260	69	64
11						70	860	1100	280	60	66	01
12	80	75	200	2400		66	860 840	1200	280 380	66	62	89
	90	8.0	200	180	160	66 62	840 750	1200 1100	380 400	66 60	62	89 90
13	90 80	80 120	200 150	180 840	160 26	66 62 58	840 750 760	1200 1100 1200	380 400 430	66 60 74	62 60 76	89 90 230
	90	8.0	200	180	160	66 62	840 750	1200 1100	380 400	66 60	62	89 90
13 14	90 80 100	80 120 2200	200 150 200	180 840 600 860	160 26 70	66 62 58 58	840 750 760 750 820	1200 1100 1200 1200 970	380 400 430 2500 2400	66 60 74 74 74 76	62 60 76 61 64	89 90 230 230 200
13 14 15 16 17	90 80 100 100 100 330	80 120 2200 85	200 150 200 150 150	180 840 600 860	160 26 70	66 62 58 58 51 52 48	840 750 760 750 820 740 860	1200 1100 1200 1200 970 960 880	380 400 430 2500 2400 2500 1800	66 60 74 74 74 76 270	62 60 76 61 64 58 61	89 90 230 230 200
13 14 15 16 17 18	90 80 100 100 100 330 290	80 120 2200 85	200 150 200 150 150 150 140	180 840 600 860 1000 1000 920	160 26 70 48 55	66 62 58 58 51 52 48 50	840 750 760 750 820 740 860 810	1200 1100 1200 1200 970 960 880 890	380 400 430 2500 2400 2500 1800 650	66 60 74 74 74 76 270 260	62 60 76 61 64 58 61 64	89 90 230 230 200 120 110 100
13 14 15 16 17	90 80 100 100 100 330	80 120 2200 85	200 150 200 150 150	180 840 600 860	160 26 70	66 62 58 58 51 52 48	840 750 760 750 820 740 860	1200 1100 1200 1200 970 960 880	380 400 430 2500 2400 2500 1800	66 60 74 74 74 76 270	62 60 76 61 64 58 61	89 90 230 230 200
13 14 15 16 17 18 19 20	90 80 100 100 100 330 290 290 290	80 120 2200 85 85 350	200 150 200 150 150 150 140 140 120	180 840 600 860 1000 1000 920 900 	160 26 70 48 55 45	66 62 58 58 51 52 48 50 220 140	840 750 760 750 820 740 860 810 1200 1200	1200 1100 1200 1200 970 960 880 890 640 200	380 400 430 2500 2400 2500 1800 650 160 130	66 60 74 74 74 76 270 260 280 280	62 60 76 61 64 58 61 64 64 74	89 90 230 230 200 120 110 100 130
13 14 15 16 17 18 19 20	90 80 100 100 100 330 290 290 290	80 120 2200 85 85 350 300 350	200 150 200 150 150 150 140 140 120	180 840 600 860 1000 1000 920 900 	160 26 70 48 55 45 66 64	66 62 58 58 51 52 48 50 220 140	840 750 760 750 820 740 860 810 1200 1200	1200 1100 1200 1200 970 960 880 890 640 200	380 400 430 2500 2400 2500 1800 650 160 130	66 60 74 74 74 76 270 260 280 280	62 60 76 61 64 58 61 64 64 74	89 90 230 230 200 120 110 100 130
13 14 15 16 17 18 19 20 21 22 23	90 80 100 100 100 330 290 290 290 140 80 170	80 120 2200 85 85 350 350 450	200 150 200 150 150 150 140 140 120 160 180 170	180 840 600 860 1000 920 900 4000 850 1600	160 26 70 48 55 45 66 64 62	66 62 58 58 51 52 48 50 220 140	840 750 760 750 820 740 860 810 1200 1200	1200 1100 1200 1200 970 960 880 890 640 200	380 400 430 2500 2400 2500 1800 650 160 130 120 74	66 60 74 74 74 76 270 260 280 280	62 60 76 61 64 58 61 64 64 74 56 58 82	89 90 230 230 200 120 110 100 130
13 14 15 16 17 18 19 20	90 80 100 100 100 330 290 290 290	80 120 2200 85 85 350 300 350	200 150 200 150 150 150 140 140 120	180 840 600 860 1000 1000 920 900 	160 26 70 48 55 45 66 64	66 62 58 58 51 52 48 50 220 140	840 750 760 750 820 740 860 810 1200 1200	1200 1100 1200 1200 970 960 880 890 640 200	380 400 430 2500 2400 2500 1800 650 160 130	66 60 74 74 74 76 270 260 280 280 320 300	62 60 76 61 64 58 61 64 64 74	89 90 230 230 200 120 110 100 130 130 90 71
13 14 15 16 17 18 19 20 21 22 23 24 25	90 80 100 100 100 100 330 290 290 290 290 140 80 170 220 100	80 120 2200 85 85 350 350 450 450 400	200 150 200 150 150 140 140 140 120 160 180 170 550 600	180 840 600 860 1000 920 900 4000 850 1600 1900	160 26 70 48 55 45 66 64 62 78 75	66 62 58 58 51 52 48 50 220 140 140 120 110 96	840 750 760 750 820 740 860 810 1200 1200 670 600 610	1200 1100 1200 1200 970 960 880 890 640 200 140 470 480 360 410	380 400 430 2500 2400 2500 1800 650 160 130 120 120 74 82 76	66 60 74 74 74 76 270 280 280 280 280 300 350 200	62 60 76 61 64 58 61 64 64 74 56 58 82 100 150	89 90 230 230 200 120 110 100 130 130 90 71 60 76
13 14 15 16 17 18 19 20 21 22 23 24 25	90 80 100 100 100 330 290 290 290 290 140 80 170 220 100	80 120 2200 85 85 350 350 350 450 400	200 150 200 150 150 140 140 140 120 160 180 170 550 600	180 840 600 860 1000 920 900 4000 850 1600 1900	160 26 70 48 55 45 66 64 62 78 75	66 62 58 58 51 52 48 50 220 140 140 120 110 100 96	840 750 760 750 820 740 860 810 1200 1200 620 670 600 610	1200 1100 1200 1200 970 960 880 890 640 200 140 470 480 360 410	380 400 430 2500 2400 2500 1800 650 160 130 120 74 82 76	66 60 74 74 74 76 270 260 280 280 280 300 350 200	62 60 76 61 64 58 61 64 64 74 56 58 82 100 150	89 90 230 230 200 110 110 100 130 130 90 71 60 76
13 14 15 16 17 18 19 20 21 22 23 24 25	90 80 100 100 100 330 290 290 290 290 140 80 170 220 100 200 210	80 120 2200 85 85 350 350 450 450 400	200 150 200 150 150 140 140 140 120 160 180 170 550 600	180 840 600 860 1000 920 900 4000 850 1600 1900	160 26 70 48 55 45 66 64 62 78 75	66 62 58 58 51 52 48 50 220 140 140 120 110 96	840 750 760 750 820 740 860 810 1200 1200 670 600 610	1200 1100 1200 1200 970 960 880 890 640 200 140 470 480 360 410	380 400 430 2500 2400 2500 1800 650 160 130 120 120 74 82 76	66 60 74 74 74 76 270 280 280 280 280 300 350 200	62 60 76 61 64 58 61 64 64 74 56 58 82 100 150	89 90 230 230 200 120 110 100 130 130 90 71 60 76
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	90 80 100 100 100 330 290 290 290 290 140 80 170 220 100 210 80 70	80 120 2200 85 85 85 350 350 450 450 400 700 700 750 250	200 150 200 150 150 140 140 140 120 160 180 170 550 600	180 840 600 860 1000 920 900 4000 850 1600 1900 1700 1400 1100 1500 1600	160 26 70 48 55 45 66 64 62 78 75 72 74 70	66 62 58 58 51 52 48 50 220 140 120 110 100 96 2100 2100 2100 2100	840 750 760 750 820 740 860 810 1200 1200 670 600 610 810 790 760 670 660	1200 1100 1200 1200 970 960 880 890 640 200 140 470 480 360 410 420 280 280 270 150	380 400 430 2500 2400 2500 1800 650 160 130 120 74 82 76 70 70 62 60 60 62	66 60 74 74 74 76 270 260 280 280 280 300 350 200 160 130 58 64 66	62 60 76 61 64 58 61 64 64 74 56 58 82 100 150	89 90 230 230 200 120 110 100 130 130 90 71 60 76 70 380 390 800 510
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	90 80 100 100 100 100 330 290 290 290 290 140 80 170 220 100 210 80	80 120 2200 85 85 350 300 350 450 500 400 700 700 750	200 150 200 150 150 140 140 120 160 180 170 550 600	180 840 600 860 1000 920 900 4000 850 1600 1600 1400 1400 1100	160 26 70 48 55 -45 66 64 62 78 75	66 62 58 58 51 52 48 50 220 140 140 120 110 100 96 2100 2100 130	840 750 760 750 820 740 860 810 1200 1200 670 600 610 810 790 760 670	1200 1100 1200 1200 970 960 880 890 640 200 140 470 480 360 410	380 400 430 2500 2400 2500 1800 650 160 130 120 74 82 76	66 60 74 74 74 76 270 280 280 280 320 350 200 130 58 64	62 60 76 61 64 58 61 64 74 56 58 82 100 150	89 90 230 230 200 120 110 100 130 130 71 60 76 70 380 380 800
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	90 80 100 100 100 330 290 290 290 290 140 80 170 220 100 210 80 70	80 120 2200 85 85 85 350 350 450 450 400 700 700 750 250	200 150 200 150 150 140 140 140 120 160 180 170 550 600	180 840 600 860 1000 920 900 4000 850 1600 1900 1700 1400 1100 1500 1600	160 26 70 48 55 45 66 64 62 78 75 72 74 70	66 62 58 58 51 52 48 50 220 140 120 110 100 96 2100 2100 2100 2100	840 750 760 750 820 740 860 810 1200 1200 670 600 610 810 790 760 670 660	1200 1100 1200 1200 970 960 880 890 640 200 140 470 480 360 410 420 280 280 270 150	380 400 430 2500 2400 2500 1800 650 160 130 120 74 82 76 70 70 62 60 60 62	66 60 74 74 74 76 270 260 280 280 280 300 350 200 160 130 58 64 66	62 60 76 61 64 58 61 64 64 74 56 58 82 100 150	89 90 230 230 200 120 110 100 130 130 71 60 76 70 380 390 800 510

292245090123200 BAYOU LAFOURCHE AT GALLIANO, LA (CE 82300)

LOCATION.--Lat 29°22'45", long 90°12'32", T.19 S., R.9 E., Lafourche Parish, Hydrologic Unit 08090301, at Galliano.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD .-- Water years 1975 to current year.

PERIOD OF DAILY RECORD . --

WATER TEMPERATURES: October 1976 to September 1978, October 1980 to September 1981. CHLORIDE: October 1974 to current year.

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: Maximum daily, 33.0°C July 7, 1977; minimum daily, 6.0°C Jan. 18, Feb. 1, 2, 1977.

CHLORIDE: Maximum daily, 12,000 mg/L Mar. 30, 1977, Jan. 26, 1981; minimum daily, 10 mg/L Apr. 15, 21, 1980.

EXTREMES FOR CURRENT YLAR. --

WATER TEMPERATURES: Maximum daily, 30.0°C several days during June, July, August; minimum daily, 7.0°C Jan. 21-23.

CHLORIDE: Maximum daily, 12,000 mg/L Jan. 26; minimum daily, 59 mg/L Feb. 18.

			TEMPERATUR	RE, WATER	(DEG. (C) , WATER UNCE-DAIL		R 1980	TO SEPTEMBER	1981		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.0		11.0	10.0	10.0	11.0	20.0	20.0	30.0	30.0	30.0	21.0
2	21.0		11.0	10.0	10.0	11.0	20.0	20.0	30.0	30.0	30.0	21.0
3	21.0		11.0	10.0	10.0	11.0	20.0	20.0	30.0	21.0	30.0	21.0
4	21.0		11.0	10.0	10.0	11.0	20.0	20.0	30.0	30.0	30.0	21.0
5	21.0		11.0	10.0	10.0	10.5	20.0	50.0	30.0	30.0	30.0	21.0
6	21.0		11.0	10.0	10.0	10.5	20.0	20.0	30.0	30.0	30.0	21.0
7	21.0		11.0	10.0	10.0	10.5	20.0	20.0	30.0	30.0	30.0	21.0
8	21.0		11.0	10.0	10.0	10.5	20.0	20.0	30.0	30.0	30.0	21.0
9	21.0		11.0	10.0	10.0	10.5	20.0	20.0	21.0	21.0	30.0	21.0
10	21.0		11.0	10.0	10.0	10.5	20.0	20.0	21.0	30.0	30.0	21.0
11	21.0		11.0	10.0	10.0	10.5	20.5	20.0	30.0	21.0	30.0	21.0
12	21.0		11.0	10.0	9.0	10.5	20.5	20.0	30.0	30.0	30.0	21.0
13	22.0	20.0	11.0	9.0	10.0	10.5	20.5	20.0	30.0	30.0	30.0	21.0
14	22.0	20.0	11.0	10.0	10.0	10.5	20.5	20.0	30.0	30.0	30.0	21.0
15	55.0	20.0	11.0	10.0	10.0	10.5	20.5	50.0	30.0	30.0	30.0	21.0
16	22.0	20.0	10.0	8.0	10.0	11.0	20.5	20.0	30.0	30.0	30.0	21.0
17	22.0		10.0	8.0	10.0	11.0	20.5	20.0	30.0	30.0	30.0	20.5
18	0.55		10.0	8.0	10.0	11.0	20.5	20.0	30.0	30.0	30.0	20.5
19	22.0		10.0	9.0	10.5	11.0	20.5	20.0	30.0	30.0	30.0	20.5
20	22.0		10.0	8.0	10.5	11.0	20.5	50.0	30.0		30.0	20.5
21	22.0		10.0	7.0	10.5	11.0	20.5	20.0	21.0	30.0	30.0	20.5
55	22.0		10.0	7.0	10.5	11.0	20.5	20.0	21.0	30.0	30.0	20.5
23	22.0		10.0	7.0	10.5	11.0	20.5	20.0	30.0	30.0	30.0	21.0
24	22.0		10.0	10.0	10.5	11.0	20.5	20.0	30.0	30.0	30.0	20.5
25	21.0		10.0	10.0	11.0	11.0	20.0	50.0	30.0	30.0	30.0	20.5
26	21.0		10.0	10.0	11.0	11.0	20.0	20.0	30.0	30.0	30.0	21.0
27	21.0		10.0	10.0	11.0	11.0	20.0	20.0	30.0	30.0	30.0	21.0
28	21.0		10.0	10.0	11.0	20.0	20.0	20.0	21.0	30.0	30.0	21.0
29	21.0		10.0	10.0		20.0	20.0	20.0	30.0	30.0	30.0	20.5
30	21.0		10.0	10.0		20.0	20.0	20.0	21.0	30.0	30.0	20.5
31	21.0		10.0	10.0		20.0		20.0		30.0	30.0	
MAX	22.0		11.0	10.0	11.0	20.0	20.5	20.0	30.0	30.0	30.0	21.0
MIN	21.0		10.0	7.0	9.0	10.5	20.0	20.0	21.0	21.0	30.0	20.5

81

MISSISSIPPI RIVER DELTA 292245090123200 BAYOU LAFOURCHE AT GALLIANO, LA (CE 82300)--Continued

CHLORIDE. DISSOLVED (MG/L). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	280	80	1400	7000	10000	80	9600	920	790	350	1200	100
2	280	80	1200	7100	11000	72	6200	8300	730	2600	220	100
3	300	80	1000	7400	2300	230	3200	8600	770	3000	240	100
4	320	90	900	7300	3200	220	6200	8500	800	600	200	150
5	240	90	3800	7200	1900	1800	4200	8200	800	620	160	110
6	230	100	4100	7400	2100	190	1300	8400	220	130	130	120
7	2400	1600	4100	8000	1800	180	1300	8500	250	500	130	360
8	2400	1700	4100	8500	3300	400	1400	7500	240	490	88	360
9	1300	2100	5800	8300	500	370	2000	7800	410	480	84	120
10	1800	5500	900	9000	700	82	5000	7400	520	290	89	120
11	1800	160	800	7900	430	96	1000	2100	290	300	83	520
12	1800	160	500	7800	190	79	1000	2100	480	93	90	520
13	1800	7100	400	7600	500	82	1100	5000	500	120	350	540
14	5500	7400	400	7500	190	200	2600	2000	730	86	670	510
15	5500	7300	230	8500	120	120	2700	1900	740	95	690	180
16	3600	7100	150	11000	92	130	2700	1400	700	1300	620	170
17	5800	800	150	4200	84	550	2600	5400	2500	1300	670	170
18	8100	820	3300	4300	59	270	1600	5400	5000	1300	1500	150
19	500	690	3700	8000	64	270	1600	5000	660	1200	1500	3500
50	550	970	800	8000	60	260	1300	2900	420		620	3600
21	500	1000	800	9400	66	5500	1300	470	180	1100	600	5700
22	500	1800	4700	10000	60	630	1300		180	1000	1400	5900
23	2000	1900	4600	10000	68	630	1200	2400	200	2900	7500	5800
24	5500	2300	900	11000	76	380	5500	2400	160	2800	7700	4000
25	1100	2000	700	11000	80	920	2100	2400	130	7500	7700	4000
26	1200	800	900	12000	72	1100	2200	2400	120	3200	7600	3500
27	7400	600	200	11000	530	9700	5500	860	120	3400	7800	3500
28	4200	800	210	11000	550	9700	2300	370	350	3200	7800	3400
29	300	1100	230	11000		9800	3200	330	360	3300	6700	4100
30	110	1200	3700	11000		9900	920	390	340	1700	6700	3900
31	140		2800	9500		9700		230		1800	5500	
MAX	8100	7400	5800	12000	11000	9900	9600	8600	2500	7500	7800	5900
MIN	110	80	150	4200	59	72	920	230	120	86	83	100

07381330 INTRACOASTAL WATERWAY AT HOUMA, LA (CE 76320)

LOCATION.--Lat 29°35'55", long 90°42'36", in sec.8, T.17 S., R.17 E., Terrebonne Parish, Hydrologic Unit 08090302, at State Highway 24 bridge at Houma.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD .- - Water years 1960, 1978 to January 1981 (discontinued).

PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: June 1981 to September 1981. CHLORIDE: October 1980 to September 1981.

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURES: Maximum daily, 30.0°C July 16, 17, Aug. 18-26, 28; minimum daily, 25.0°C Sept. 20. CHLORIDE: Maximum daily, 8,100 mg/L Nov. 18; minimum daily, 30 mg/L June 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
ост												
28 NOV	1205	1370	7.3	20	2.0	<1.0	6.5	40	.9	K17000	9000	200
18	1315	21400	7.4	20	15	<1.0	7.1	150	.1	700	140	2600
DEC	1202	717	7.3	20	55	<1.0	6.7	36	1.8			140
10 JAN	1303	111		20	22		0.1		1.0			
20	1215	1310	7.4	15	120	<1.0	11.0	88	2.3	K160	K32	210
DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE. DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN+ NITRATE TOTAL (MG/L AS N)	NITRO- GEN. NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)
28	130	33	28	200	10	69	77	370	31	.37	.01	.38
NOV												
18	2500	210	500	4100	140	98	870	7900	44	•25	.02	.27
10 JAN	46	33	14	80	5.6	94	46	130	122	•42	.05	.47
20	120	39	27	190	8.0	93	79	320	190		.04	
DATE	NITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
ост												
28	.74	.30	2	1	0	<1	0	<1	10	0	10	3
18	.95	.06	1	0	10	0	0	0	30	0	6	2
DEC 10	1.3	.12	2	1	0	<1	0	<1	20	0	20	7
JAN			2	0	0	<1	0	0		0		
20	1.1	.10	2	0	0	<1	0	0	10	0	10	1

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

07381330 INTRACOASTAL WATERWAY AT HOUMA, LA (CE 76320) -- Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	501 (U	ON. IS- LVED G/L FE)	REI ER	AD. TAL COV- ABLE G/L PB)	SOL	S- VED	ERA (UC	ABLE	MERC DI SOL (UG AS	URY S- VED /L	ICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NIC DI SC	CKEL . (S- OLVED JG/L S NI)	NI TO (U	LE- UM, TAL G/L	SELI NIU DI SOL (UG	M. S- VED /L		AL OV- BLE	ZINO DIS SOLV (UG/ AS Z	ED TO	RBON, GANIC OTAL MG/L S C)
28		30		8		0		.0		.0	7	,	2		0		0		30		7	
NOV 18		90		4		0		. 0		.0	3	3	0		0		0				50	9.5
DEC 10		30		10		0		• 1		.0	6	6	3		0		0		80		10	2.4
JAN 20		20		12		0		.0		.0	11	1	3		0		0		30		6	15
DAT	ſE	CYAN TOTA (MGAS	AL /L	PHENO (UG)		OIL GREAT TOT REC GRAMET (MG.	SE. AL OV. VI- RIC	PC TOT (UG/	AL	NAPH- THA- LENES POLY CHLOR TOTAL (UG/L	. ALC	DRIN. DTAL UG/L)	CHL DAN TOT (UG	E.	DDD • TOTAL (UG/L		DDE •		DDT. TOTAL (UG/L		DI- AZINON, TOTAL (UG/L)	
OCT 28.			.00		3		0		.0		0	.000		.0	.00	0	.00	0	.00	0	.01	
NOV 18			.00		0		0		.0		0	.000		.0	.00	0	.00	0	.00	0	.01	
DEC 10.			.00		3		0	<	.1	۷,	1 .	<.001		<.1	<.00	1	<.00	1	<.00	2	<.01	
NAU OS			.00		0		0	<	.1	<.	1	<.001		<.1	<.00	1	<.00	1	<.00	1	.01	
DA	TE	DI ELD TOT (UG	RIN	END SULF TOT (UG	AN,	ENDR TOT (UG	AL	ETHI TOT (UG		HEPTA CHLOR TOTAL (UG/L	EP	EPTA- HLOR OXIDE OTAL UG/L)	TOT		MALA THIO TOTAL (UG/I	N,	METH- OXY- CHLOF TOTAL (UG/L		METHY PARA- THION TOTAL (UG/L	,	METHYL TRI- THION, TOTAL (UG/L)	
ОСТ			000		000		000		.00	.00	0.0	.000		000		00	. (00	.0	0	.00	
NOV	• • • •		000		000		000		.00	.00		.000		000		00		00	.0		.00	
DEC			001		001		001		.01	<.00		<.001		001	۷.		<.0		<.0		<.01	
JAN			001		001		001		.01	<.00		<.001	<.	001	۷.		<.0	01	<.0)1	<.01	
DA	ΤE	TO	EX,	PAR THI TOT (UG	ON,	THA		APHE TOT		TOTAL TRI- THION (UG/L	- 2 N T	•4-D• OTAL UG/L)	TOT	AL	2,4,5 TOTA (UG/	L	SILVE: TOTAL (UG/I	-	PHYTO PLANE TON CHROMO FLUORO (UG/L)- (-))M	PHYTO- PLANK- TON CHROMO FLUORON (UG/L)	1
			.00		.00		.00		. 0	. (0 0	.04		.00		00		00	8.37	7	.000)
			.00		.00		.00		. 0	. (0 0	.00		.00		00		00	3.39	5	.000)
		<	.01	<	.01		.01		<.1	<.	01	.01		.00		00		01	6.48	3	.060)
JAN 20			.01	<	.01		.01		<.1	<.	01	.05		.00		00		01	4.75	5	.000	0

< Actual value is known to be less than the value shown.

07381330 INTRACOASTAL WATERWAY AT HOUMA, LA (CE 76320) -- Continued

TEMPERATURE.	WATER	IDEG.	C) .	WATER	YEAR	OCTOBER	1980	TO	SEPTEMBER	1981	
			OAL	OF-DATI	V						

DAY	oct	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5									29.0 29.0 29.0 29.0 29.0	28.0 28.0 28.0 28.0 29.0	=======================================	28.0 28.0 28.0 28.0 28.0
6 7 8 9									29.0 29.0 29.0 29.0 29.0	27.0 27.0 28.0 28.0 28.0	29.0 29.0 29.0 29.0 29.0	29.0 29.0 29.0 29.0 29.0
11 12 13 14 15									29.0 29.0 29.0 29.0 29.0	28.0 28.0 29.0 29.0 29.0	29.0 29.0 29.0 29.0 29.0	29.0 29.0 29.0 29.0 28.0
16 17 18 19 20									29.0 29.0 29.0 29.0 29.0	30.0	29.0 29.0 30.0 30.0 30.0	28.0 28.0 26.0 26.0 25.0
21 22 23 24 25									29.0 29.0 29.0 29.0 28.0	=======================================	30.0 30.0 30.0 30.0 30.0	27.0 27.0 26.0 26.0
26 27 28 29 30 31									29.0 29.0 29.0 28.0 28.0	=======================================	30.0 28.0 30.0 28.0 29.0 27.0	26.0 26.0 26.0 26.0 26.0
MAX									29.0 28.0	244	30.0 27.0	29.0 25.0
			CHLORIDE.	DISSOLVE		WATER YEA	AR OCTOBE	R 1980 TO	SEPTEMBE	R 1981		
DAY	oct	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	110 79 77 83 80	60 60 50 50 120	100 140 140 100	74 66 70 66 71	1800 2300 540 600 360	50 50 54 51 90	4600 3200 2700 2300 2300	40 42 44 190 4000	46 40 44 42 44	56 56 55 44 40	==	82 76 68 66 58
6 7 8 9	81 74 92 71 75	100 80 90 110	140 140 120 120 130	70 70 70 73 67	540 260 150 130 54	51 50 42 70 67	2200 2900 2500 540 470	5100 5400 3700 2200 2400	45 36 35 36 36	36 36 45 48 52	50 56 56 59 64	72 72 72 81 86
11 12 13 14 15	72 63 73 69 76	80 60 70 80 2400	100 90 90 90 90	60 75 76 110 110	66 70 42 53 44	54 52 62 50 49	440 400 260 700 640	220 210 70 70 74	50 38 41 35 30	48 56 56 50 54	54 51 49 47 50	82 82 86 82 82
16 17 18 19 20	76 72 800 810 150	5000 4600 8100 6700 8000	70 70 70 80 90	590 250 240 240 200	56 54 56	48 52 49 59 52	1200 1300 1300 1600 1100	71 69 92 600 580	50 38 47 40 50	46 52 	50 53 50 48 56	98 80 100 100 98
21 22 23 24 25	90 100 81 190 160	7100 1100 1400 1200 1100	60 69 70 64 66	110 130 130 130 140	59 46 46 59 50	60 54 50 51 64	160 100 140 100 62	380 45 56 58 56	40 94 140 120 130		59 51 50 50 52	110 110 100 100
26 27 28 29 30 31	170 100 60 60 80	140 140 160 110 120	64 71 64 62 58 66	510 1300 2500 2400 1700 1500	98 46 51	53 58 60 1200 1700 4900	59 58 48 43 45	54 57 52 54 56 53	110 54 43 62 53	=======================================	54 50 150 450 660 1000	100 95 100 99 98
MAX MIN	H10 60	8100 50	140 58	2500 60	2300	4900 4900 42	4600 43	5400 40	140		1000	110 58

85

LOCATION.--Lat 29°33'13", long 90°36'05", T.17 S., R.18 E., Terrebonne Parish, Hydrologic Unit 08090302, at Bourg.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD . --

WATER TEMPERATURES: October 1976 to November 1978, March 1980 to current year. CHLORIDE-SURFACE: October 1974 to November 1978, November 1979 to current year. CHLORIDE-10 FT DEPTH: October 1975 to November 1978, November 1979 to current year.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey. Samples are collected at the water surface and at a 10-ft (3.0 m) depth.

EXTREMES FOR PERIOD OF DAILY RECORD .--

TREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 32.0°C July 4, 5, 1978, July 23, 1981; minimum daily, 3.0°C Jan. 15, 1978.
CHLORIDE-SURFACE: Maximum observed, 7,500 mg/L Mar. 30, 1977; minimum daily, 14 mg/L May 31, 1975.
CHLORIDE-10 FT DEPTH: Maximum daily, 7,700 mg/L May 19, 1981; minimum daily, 14 mg/L Mar. 5, 1978.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURES: Maximum daily, 32.0°C July 23; minimum daily, 10.0°C Dec. 22, 25-31, Jan. 14-19. CHLORIDE-SURFACE: Maximum daily, 7,300 mg/L May 5; minimum daily, 36 mg/L July 8. CHLORIDE-10 FT DEPTH: Maximum daily, 7,700 mg/L May 19; minimum daily, 36 mg/L July 8.

TEMPERATURE, WATER (DEG. C). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.0	15.0		13.0	16.0	19.0	21.0	26.0	28.0	28.0	28.0	27.0
2	24.0	15.0		14.0	16.0	19.0	21.0	22.0	28.0	28.0	28.0	27.0
3	23.0	16.0		14.0	16.0	19.0	21.0	22.0	27.0	27.0	28.0	27.0
4	23.0	17.0		14.0	11.0	19.0	22.0	22.0	27.0	27.0	28.0	27.0
5	23.0	17.0		14.0	11.0	19.0	22.0	55.0	27.0	27.0	28.0	27.0
6	23.0	17.0		14.0	11.0		21.0	22.0	27.0	27.0	28.0	27.0
7	21.0	17.0		18.0	11.0		21.0	21.0	28.0	27.0	28.0	27.0
8	21.0	17.0		18.0	13.0		21.0	21.0	28.0	27.0	28.0	27.0
9	22.0	17.0		18.0	15.0	17.0	22.0	25.0	27.0	27.0	28.0	27.0
10	55.0	18.0		18.0	15.0	16.0	55.0	22.0	27.0	28.0	28.0	27.0
11	55.0	18.0		15.0	15.0	15.0	22.0	22.0	27.0	28.0	28.0	27.0
12	55.0	18.0		15.0		15.0	23.0	55.0	28.0	28.0	28.0	27.0
13	23.0			15.0		15.0	24.0	22.0	28.0	28.0	28.0	27.0
14	23.0			10.0		15.0	23.0	23.0	29.0	28.0	29.0	27.0
15	23.0			10.0		16.0	23.0	23.0	28.0	28.0	29.0	27.0
16				10.0		16.0	23.0	23.0	28.0	28.0	29.0	29.0
17				10.0		16.0	24.0	24.0	28.0	29.0	29.0	27.0
18				10.0		16.0	24.0	25.0	29.0	29.0	30.0	25.0
19				10.0		16.0	24.0	25.0	29.0	29.0	30.0	24.0
20					15.0	16.0	24.0	23.0	29.0	29.0	30.0	24.0
21					15.0	16.0	25.0	22.0	29.0	30.0	30.0	25.0
55			10.0		16.0	16.0	25.0	23.0	29.0	31.0	30.0	26.0
23			11.0		15.0	16.0	25.0	23.0	30.0	32.0	30.0	24.0
24					15.0	16.0	24.0	24.0	30.0	31.0	29.0	24.0
25		14.0	10.0		17.0	16.0	24.0	24.0	30.0	31.0	29.0	25.0
26		14.0	10.0		17.0	16.0	24.0	24.0	30.0	30.0	28.0	26.0
27		11.0	10.0	13.0	19.0	17.0	24.0	25.0	30.0	30.0	28.0	25.0
85	21.0	11.0	10.0	13.0	19.0	17.0	26.0	27.0	29.0	29.0	28.0	25.0
29	21.0	12.0	10.0	12.0		20.0	26.0	27.0	28.0	29.0	28.0	25.0
30	21.0	12.0	10.0	15.0		20.0	26.0	28.0	29.0	29.0	27.0	25.0
31	21.0		10.0	15.0		20.0		28.0		29.0	27.0	
MAX			===	18.0	19.0	20.0	26.0	28.0	30.0	32.0	30.0	29.0
MIN				10.0	11.0	15.0	21.0	21.0	27.0	27.0	27.0	24.0

293313090360500 BAYOU TERREBONNE NEAR BOURG, LA (CE 76403)--Continued

CHLORIDE, DISSOLVED (MG/L), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
SAMPLING DEPTH 5.00 (FT.), ONCE-DAILY

V DEC JAN FEB MAR APR MAY JUN JUL

				SAMPLING	DEPIN	5.00 (F	1.1. UNC	E-DAILY				
DAY	oct	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	60		450	3500	55	2500	54	64	56	52	56
2	160	45		350	1600	54		60	52	55	50	74
3	95	50		150	1300	850	1200	64	60	54	46	80
4	100	50		160	1300	1100	5300	2100	60	52	45	110
5		50		140	1600	940	6100	7300	73	51	52	110
6	99	50			920			1800	92	52	61	160
7 8	90	50 50		140	320		600	1800	100	49	66	430
9	91	50		160 100	420		790	1100	42	36	61	460
10	100	50		100	120	52	1400	1300	50 49	40	54	290
						.,,		1500	47	40	60	210
11	95	100		85		55	1400	1500	50	49	55	220
12 13	100	100		80		53	1400	1700	55	54	66	550
14	75			95 91		52	1500	710	61	60	74	220
15				86		50 50	1300 860	660	68 60	52 56	64 56	220 140
16				0.4		5.3						
17				84 83		53 52	850	160 170	61	59	52	
18				86		60	740	3700	44	52 56	55 50	89
19				68		56	1000	6100	40	41	46	78 79
20					80	57	990	610	42	54	42	82
21					57	59	950	360	40		46	93
22					58		1200		42	56	46	90
23			76		54	95	1000		49		47	96
24			80		58	90	760	400	46	57	48	99
25		2000			52	63	690	420	50	560	49	89
26		850	70		44	68	660		50	1100	50	89
27		500	73	6400	53	70		250	50	960	54	88
28	830	500	68	3500	52	89	150	170	58	220	48	96
29		450	70			90		86	58	71	110	120
30 31	75 60	550	70	3500			56	90	53	70	54	120
	80	100	66	3500		96		100		71	50	
MAX				6400	3500	1100	6100	7300	100	1100	110	460
MIN				68	44	50	56	54	40	36	42	56
				SAMPLING I	DEPTH	10.00(F	T.), ONC	E-DAILY				
DAY	ост	NOV	DEC	SAMPLING I	DEPTH FEB	10.00(F	T.), ONC	E-DAILY MAY	JUN	JUL	AUG	SEP
			DEC	JAN	FEB	MAR	APR	MAY				
1	OCT 180 160	NOV 55 50		JAN 450	FEB 4000		APR 2500	MAY 60	64	60	45	55
	180	55		JAN	FEB	MAR	APR 2500 1500	MAY 60 65	64 54	60 56	45 48	55 76
1 2 3 4	180 160 100 110	55 50	===	JAN 450 400	FEB 4000 1600	MAR	APR 2500	MAY 60	64	60	45	55 76 81
1 2 3	180 160 100	55 50 50	===	JAN 450 400 160	FEB 4000 1600 1300	MAR	APR 2500 1500 1200	60 65 58	64 54 64	60 56 51	45 48 46	55 76
1 2 3 4 5	180 160 100 110 100	55 50 50 50 45	==	JAN 450 400 160 160 140	FEB 4000 1600 1300 1300 2100	MAR	APR 2500 1500 1200 	60 65 58 2100 7300	64 54 64 68 72	60 56 51 52 51	45 48 46 46 47	55 76 81 110 120
1 2 3 4	180 160 100 110	55 50 50	=	JAN 450 400 160 160 140	FEB 4000 1600 1300 1300 2100	MAR	APR 2500 1500 1200 6300	60 65 58 2100 7300	64 54 64 68 72	60 56 51 52 51	45 48 46 46 47	55 76 81 110 120
1 2 3 4 5	180 160 100 110 100	55 50 50 50 45		JAN 450 400 160 160 140	FEB 4000 1600 1300 1300 2100	MAR	APR 2500 1500 1200 	60 65 58 2100 7300	64 54 64 68 72	60 56 51 52 51	45 48 46 46 47	55 76 81 110 120
1 2 3 4 5 6 7 8	180 160 100 110 100 92 91 100 110	55 50 50 50 45 55 50 40		JAN 450 400 160 160 140 140 150 160 100	FEB 4000 1600 1300 1300 2100 930 380 540 480	MAR	APR 2500 1500 1200 6300 1400 660 770 1500	60 65 58 2100 7300 1800 1800 1100 1300	64 54 64 68 72 98 98	60 56 51 52 51 53 50	45 48 46 46 47 50 53	55 76 81 110 120
1 2 3 4 5	180 160 100 110 100	55 50 50 50 45 55 50 40		JAN 450 400 160 160 140 140 150 160	FEB 4000 1600 1300 1300 2100 930 380 540	MAR	APR 2500 1500 1200 6300 1400 660 770	60 65 58 2100 7300 1800 1800 1100	64 54 64 68 72 98 98	60 56 51 52 51 53 50 36	45 48 46 46 47 50 53	55 76 81 110 120 160 430 470
1 2 3 4 5 6 7 8	180 160 100 110 100 92 91 100 110	55 50 50 50 45 55 50 40		JAN 450 400 160 160 140 140 150 160 100	FEB 4000 1600 1300 1300 2100 930 380 540 480	MAR	APR 2500 1500 1200 6300 1400 660 770 1500	60 65 58 2100 7300 1800 1800 1100 1300	64 54 64 68 72 98 98 46 45	60 56 51 52 51 53 50 36 37 50	45 48 46 46 47 50 53 55 64 63	55 76 81 110 120 160 430 470 290 210
1 2 3 4 5 6 7 8 9 10	180 160 100 110 100 92 91 100 110 100	55 50 50 50 45 55 50 40 40 100		JAN 450 400 160 160 140 140 150 160 100 100	FEB 4000 1600 1300 1300 2100 930 380 540 480 140	MAR	APR 2500 1500 1200 6300 1400 660 770 1500	MAY 60 65 58 2100 7300 1800 1100 1300 1300 2100 1700	64 64 68 72 98 98 46 45	60 56 51 52 51 53 50 36 37	45 48 46 46 47 50 53 55 64	55 76 81 110 120 160 430 470 290
1 2 3 4 5 6 7 8 9 10	180 160 100 110 100 92 91 100 110 100	55 50 50 50 45 55 50 40 40 100		JAN 450 400 160 160 140 150 160 100 100	FEB 4000 1600 1300 1300 2100 930 380 540 480 140	MAR 54 50 52 53	APR 2500 1500 1200 6300 1400 660 770 1500 1400 1600 1500	MAY 60 65 8 2100 7300 1800 1100 1300 1300 2100 1700 700	64 54 68 72 98 98 46 45 50 47 64 58	60 56 51 52 51 53 50 36 37 50	45 48 46 46 47 50 53 55 64 63 60 68 67	55 76 81 110 120 160 430 470 290 210
1 2 3 4 5 6 7 8 9 10	180 160 100 110 100 92 91 100 110 100	55 50 50 45 55 50 40 40 100		JAN 450 400 160 160 160 140 150 160 100 100 85 75 90 88	930 380 540 480 140	MAR 54 50 52 53 48	APR 2500 1500 1200 6300 1400 660 770 1500 1400 1600 1500 1300	MAY 60 65 58 2100 7300 1800 1800 1300 1300 1700 1700 690	64 54 68 72 98 98 46 45 50 47 64 58 78	60 56 51 52 51 53 50 36 37 50 52 56 60 56	45 48 46 46 47 50 53 55 64 63 60 68 67 59	55 76 81 110 120 160 430 470 290 210 220 220 220 220
1 2 3 4 5 6 7 8 9 10	180 160 100 110 100 92 91 100 110 100	55 50 50 50 45 55 50 40 40 100		JAN 450 400 160 160 140 150 160 100 100	FEB 4000 1600 1300 2100 930 380 540 480 140	MAR 54 50 52 53	APR 2500 1500 1200 6300 1400 660 770 1500 1400 1600 1500	MAY 60 65 8 2100 7300 1800 1100 1300 1300 2100 1700 700	64 54 68 72 98 98 46 45 50 47 64 58	60 56 51 52 51 53 50 36 37 50	45 48 46 46 47 50 53 55 64 63 60 68 67	55 76 81 110 120 160 430 470 290 210
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	180 160 100 110 100 92 91 100 110 100	55 50 50 45 55 50 40 40 100		JAN 450 400 160 160 160 140 150 160 100 100 85 75 90 88	930 380 540 480 140	MAR 54 50 52 53 48	APR 2500 1500 1200 6300 1400 660 770 1500 1400 1600 1500 1300	MAY 60 65 58 2100 7300 1800 1800 1300 1300 1700 1700 690	64 54 68 72 98 98 46 45 50 47 64 58 78	60 56 51 52 51 53 50 36 37 50 52 56 60 56	45 48 46 46 47 50 53 55 64 63 60 68 67 59	55 76 81 110 120 160 430 470 290 210 220 220 220 220
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	180 160 100 110 100 92 91 100 110 100	55 50 50 50 45 55 50 40 40 100		JAN 450 400 160 160 160 140 150 160 100 100 85 75 90 88 84	930 380 540 480 140	MAR 54 50 52 53 48 52 52 51	APR 2500 1500 1200 6300 1400 660 770 1500 1500 1400 1600 1500 1300 900	MAY 60 65 58 2100 7300 1800 1300 1300 1300 2100 1700 700 690	64 64 68 72 98 98 46 45 50 47 64 58 58 59	60 56 51 52 51 53 50 36 37 50 56 60 56 54	45 48 46 46 47 50 53 55 64 63 60 68 67 59 55	55 76 81 110 120 160 430 470 290 210 220 220 220 180
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	180 160 100 110 100 92 91 100 110 100	55 50 50 45 55 50 40 100		JAN 450 400 160 160 140 140 150 160 100 100 85 75 90 88 84 86 81 82	930 380 540 480 140	MAR 54 52 53 48 52 52 51 60	APR 2500 1500 1200 2 6300 1400 660 770 1500 1500 1400 1500 1300 900 840 760	MAY 60 65 58 2100 7300 1800 1100 1300 1300 2100 1700 700 690 190 180 4900	64 54 68 72 98 98 46 45 50 47 64 58 78 58 50	60 56 51 52 51 53 50 36 37 50 56 60 56 54	45 48 46 46 47 50 53 55 64 63 60 68 67 59 55 55	55 76 81 110 120 160 430 470 290 210 220 220 220 180 84 91 82
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	180 160 100 110 100 92 91 100 110 100	55 50 50 50 45 55 50 40 40 100		JAN 450 400 160 160 140 140 150 160 100 100 85 75 90 88 84 86 81 82 73	930 380 540 480 140	MAR 54 52 53 48 52 52 52 51 60 52	APR 2500 1500 1200 6300 1400 660 770 1500 1500 1400 1600 1300 900 840 760 1000	MAY 60 65 88 2100 7300 1800 1100 1300 1300 2100 1700 700 690 190 180 4900 7700	64 64 68 72 98 98 46 45 50 47 68 78 58 50 45 50 45 46 46 46 46 46 46 46 46 46 46	60 56 51 52 51 53 50 36 37 50 56 60 56 54	45 48 46 46 47 50 53 55 64 63 60 68 67 59 55 53	55 76 81 110 120 160 430 470 290 210 220 220 220 180 84 91 82 90
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	180 160 100 110 100 92 91 100 110 100 120 110 75 69 81	55 50 50 50 45 55 50 40 40 100		JAN 450 400 160 160 140 140 150 160 100 100 85 75 90 88 84 86 81 82	930 380 540 480 140	MAR 54 52 53 48 52 52 51 60	APR 2500 1500 1200 2 6300 1400 660 770 1500 1500 1400 1500 1300 900 840 760	MAY 60 65 58 2100 7300 1800 1100 1300 1300 2100 1700 700 690 190 180 4900	64 54 68 72 98 98 46 45 50 47 64 58 78 58 50	60 56 51 52 51 53 50 36 37 50 56 60 56 54	45 48 46 46 47 50 53 55 64 63 60 68 67 59 55 55	55 76 81 110 120 160 430 470 290 210 220 220 220 180 84 91 82
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	180 160 100 110 100 92 91 100 110 100 110 75 69 81	55 50 50 50 45 55 50 40 40 100		JAN 450 400 160 160 140 140 150 160 100 100 85 75 90 88 84 86 81 82 73	930 380 540 480 140	MAR 54 52 53 48 52 51 60 52 56	APR 2500 1500 1200 2 6300 1400 660 770 1500 1500 1400 1600 1300 900 840 760 1000 960	MAY 60 65 82100 7300 1800 1800 1100 1300 1300 2100 1700 700 690 190 1800 4900 7700 4100	64 54 68 72 98 98 46 45 50 47 64 58 58 50 40 39 44	60 56 51 52 51 53 50 36 37 50 56 60 56 54 61 58 50 55 55	45 48 46 46 47 50 53 55 64 63 60 68 67 59 55 53 54 44 40 45	55 76 81 110 120 160 430 470 290 210 220 220 220 180 84 91 82 90 76
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21 22	180 160 100 110 100 92 91 100 110 100 120 110 75 69 81	55 50 50 50 45 55 50 40 40 100		JAN 450 400 160 160 140 140 150 160 100 100 85 75 90 88 84 86 81 82 73	930 380 540 480 140	MAR 54 50 52 53 48 52 51 60 52 56 2000	APR 2500 1500 1200 6300 1400 660 770 1500 1500 1400 1600 1300 900 840 760 1000 960	MAY 60 65 88 2100 7300 1800 1100 1300 2100 1700 700 690 190 180 4900 7700 4100	64 54 68 72 98 98 98 46 45 50 47 68 78 58 50 45 50 45 50 45 46 46 46 46 46 46 46 46 46 46	60 56 51 52 51 53 50 36 37 50 52 56 60 56 54 61 58 55 55 55	45 48 46 46 47 50 53 55 64 63 60 68 67 59 55 55 44 40 40 45 46 47	55 76 81 110 120 160 430 470 290 210 220 220 220 180 84 91 82 90 76
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	180 160 100 110 100 92 91 100 110 100 110 75 69 81	55 50 50 50 45 55 50 40 40 100	78	JAN 450 400 160 160 140 140 150 160 100 100 85 75 90 88 84 86 81 82 73	930 380 540 480 140	MAR	APR 2500 1500 1200 6300 1400 660 770 1500 1500 1500 1400 1500 1500 1700 1500 1700 1700 1700 17	MAY 60 65 82100 7300 1800 1800 1100 1300 1300 2100 1700 700 690 190 180 4900 7700 4100 370 400	64 64 68 72 98 98 46 45 50 47 64 58 50 40 40 46	60 56 51 52 51 53 50 36 37 50 52 56 60 56 54 61 58 50 55 55 55	45 48 46 46 47 50 53 55 64 63 60 68 67 59 55 54 46 44 40 45	55 76 81 110 120 160 430 470 290 210 220 220 220 180 84 91 82 90 76 99 80 93
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21 22	180 160 100 110 100 92 91 100 110 100 110 75 69 81	55 50 50 50 45 55 50 40 40 100		JAN 450 400 160 160 140 140 150 160 100 100 85 75 90 88 84 86 81 82 73	930 380 540 480 140	MAR 54 50 52 53 48 52 51 60 52 56 2000	APR 2500 1500 1200 6300 1400 660 770 1500 1500 1400 1600 1300 900 840 760 1000 960	MAY 60 65 88 2100 7300 1800 1100 1300 2100 1700 700 690 190 180 4900 7700 4100	64 54 68 72 98 98 98 46 45 50 47 68 78 58 50 45 50 45 50 45 46 46 46 46 46 46 46 46 46 46	60 56 51 52 51 53 50 36 37 50 52 56 60 56 54 61 58 55 55 55	45 48 46 46 47 50 53 55 64 63 60 68 67 59 55 55 44 40 40 45 46 47	55 76 81 110 120 160 430 470 290 210 220 220 220 180 84 91 82 90 76
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	180 160 100 110 100 92 91 100 110 75 69 81	55 50 50 50 45 55 50 40 100 100 100 95	78 76 90 86	JAN 450 400 160 160 160 170 150 160 100 100 85 75 90 88 84 86 81 82 73	930 380 540 480 140	MAR 54 54 52 53 48 52 51 60 52 56 2000 91 72	APR 2500 1500 1200 6300 1400 660 770 1500 1400 1500 1400 1600 1500 1300 900 840 760 1000 960 970 1300 1100 750 660	MAY 60 65 58 2100 7300 1800 1800 1300 1300 2100 1700 690 190 180 4900 7700 4100 370 400 390 420	64 64 68 72 98 98 46 45 50 47 64 58 50 40 40 46 46 49 40 46 49 40 40 40 40 40 40 40 40 40 40 40 40 40	60 56 51 52 51 53 50 36 37 50 52 56 60 56 54 61 58 50 55 55 55 56 60 56 56 56 56 56 56 56 56 56 56 56 56 56	45 48 46 46 47 50 53 55 64 63 60 68 67 59 55 54 46 44 40 45 44 40 45 42 40 40 40 40 40 40 40 40 40 40 40 40 40	55 76 81 110 120 160 430 470 290 210 220 220 220 180 84 91 82 90 76 99 80 93 90 83
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	180 160 100 110 100 92 91 100 110 110 75 69 81	55 50 50 50 45 55 50 40 40 100 100 25 		JAN 450 400 160 160 140 140 150 160 100 100 85 75 90 88 84 86 81 82 73	930 930 380 540 480 140	MAR 54 52 53 48 52 51 60 52 56 60 72 78	APR 2500 1500 1200 2-0-6300 1400 660 770 1500 1500 1400 1500 1300 900 840 760 1000 960 970 1300 1100 750 660	MAY 60 65 58 2100 7300 1800 1800 1100 1300 1300 2100 1700 690 190 180 4900 7700 4100 370 400 390 420	64 64 68 72 98 98 46 45 50 47 64 58 50 40 40 40 40 40 40 40 40 40 4	60 56 51 52 51 53 50 36 37 50 56 60 56 54 61 58 50 55 55 55 56 60 61 52 51 60 60 60 60 60 60 60 60 60 60 60 60 60	45 48 46 46 47 50 53 55 64 63 60 68 67 59 55 54 44 40 45 42 40 50 50 50 50 50 50 50 50 50 50 50 50 50	55 76 81 110 120 160 430 470 290 210 220 220 220 180 84 91 82 90 76 99 80 93 90 83
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	180 160 100 110 100 92 91 100 110 100 110 75 69 81	55 50 50 50 45 55 50 40 40 100 100 25 	78 76 90 86	JAN 450 400 160 160 140 140 150 160 100 100 85 75 90 88 84 86 81 82 73	930 380 540 480 140	MAR 54 52 53 48 52 52 56 60 52 56 2000 91 72 78 94	APR 2500 1500 1200 6300 1400 660 770 1500 1500 1500 1400 1600 1300 900 840 760 1300 960 970 1300 1100 750 660	MAY 60 65 88 2100 7300 1800 1800 1100 1300 1300 2100 1700 700 690 190 1800 4900 7700 4100 370 400 390 420 390	64 54 68 72 98 98 46 45 50 47 68 58 50 40 40 40 40 40 40 40 40 40 4	60 56 51 52 51 53 50 36 37 50 56 60 56 54 61 58 50 55 55 55 50 81 52 56 60 56 51 50 50 50 50 50 50 50 50 50 50 50 50 50	45 48 46 46 47 50 53 55 64 63 67 59 55 53 54 44 40 45 48 42 40 50 50 50 50 50 50 50 50 50 50 50 50 50	55 76 81 110 120 160 430 470 220 220 220 220 180 84 91 82 90 76 99 80 93 93 93 93 98
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	180 160 100 110 100 92 91 100 110 110 75 69 81	55 50 50 50 45 55 50 40 40 100 100 25 		JAN 450 400 160 160 140 140 150 160 100 100 85 75 90 88 84 86 81 82 73	930 930 380 540 480 140	MAR 54 52 53 48 52 51 60 52 56 60 72 78	APR 2500 1500 1200 2-0-6300 1400 660 770 1500 1500 1400 1500 1300 900 840 760 1000 960 970 1300 1100 750 660	MAY 60 65 58 2100 7300 1800 1800 1100 1300 1300 2100 1700 690 190 180 4900 7700 4100 370 400 390 420	64 64 68 72 98 98 46 45 50 47 64 58 50 40 40 40 40 40 40 40 40 40 4	60 56 51 52 51 53 50 36 37 50 56 60 56 54 61 58 50 55 55 55 55 56 60 1100 200	45 48 46 46 47 50 53 55 64 63 60 68 67 59 55 54 44 40 45 42 40 40 40 40 40 40 40 40 40 40 40 40 40	55 76 81 110 120 160 430 470 290 210 220 220 220 180 84 91 82 90 76 99 80 93 90 83 99 98 99 98
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 223 224 25 26 27 28 29 30	180 160 100 110 100 92 91 100 110 110 75 69 81	55 50 50 50 45 55 50 40 40 100 100 100 95 2000 900 500 500	78 76 90 86 70 68 72 71	JAN 450 400 160 160 160 140 140 150 160 100 100 85 75 90 88 84 86 81 82 73 5400 4000 4000 4000	930 380 540 480 140	MAR 54 50 52 53 48 52 51 60 52 56 2000 91 72 78 94 92	APR 2500 1500 1200 6300 1400 660 770 1500 1500 1400 1600 1300 900 840 760 1000 960 970 1300 1100 750 660	MAY 60 65 82100 7300 1800 1100 1300 1300 2100 1700 700 690 190 180 4900 7700 4100 370 400 390 420 390 150	64 64 68 72 98 98 45 50 47 64 58 58 50 45 50 40 40 46 50 40 40 40 40 40 40 40 40 40 40 40 40 40	60 56 51 52 51 53 50 36 37 50 56 60 56 54 61 58 50 55 55 55 50 81 52 56 60 56 51 50 50 50 50 50 50 50 50 50 50 50 50 50	45 48 46 46 47 50 53 55 64 63 67 59 55 53 54 44 40 45 48 42 40 50 50 50 50 50 50 50 50 50 50 50 50 50	55 76 81 110 120 160 430 470 220 220 220 220 180 84 91 82 90 76 99 80 93 93 93 93 98
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	180 160 100 110 100 92 91 100 110 100 110 75 69 81	55 50 50 50 45 55 50 40 40 100 100 95 2000 900 500 500	78 76 90 86 70 68 72	JAN 450 400 160 160 140 140 150 160 100 100 85 75 90 88 84 86 81 82 73 5400 4000 4000	930 380 540 480 140	MAR	APR 2500 1500 1200 6300 1400 660 770 1500 1500 1400 1500 1400 1500 1300 900 840 760 1000 960 970 1300 1100 750 660 640 160 140	MAY 60 65 58 2100 7300 1800 1800 1300 1300 2100 1700 700 690 190 180 4900 7700 4100 370 390 420 390 150 85	64 64 68 72 98 98 46 45 50 47 64 58 55 40 40 40 40 40 40 40 40 40 40 40 40 40	60 56 51 52 51 53 50 36 37 50 56 60 56 54 61 58 50 55 55 56 60 60 61 60 60 60 60 60 60 60 60 60 60 60 60 60	45 48 46 46 47 50 53 55 64 63 60 68 67 55 55 46 44 40 45 42 40 50 50 50 50 50 50 50 50 50 50 50 50 50	55 76 81 110 120 160 430 270 210 220 220 220 180 84 91 82 90 76 99 80 93 90 83 90 83 90 83 90 83 90 90 80 90 90 90 90 90 90 90 90 90 9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 223 224 25 26 27 28 29 30	180 160 100 110 100 92 91 100 110 110 75 69 81	55 50 50 50 45 55 50 40 40 100 100 100 95 2000 900 500 500	78 76 90 86 70 68 72 71	JAN 450 400 160 160 160 140 140 150 160 100 100 85 75 90 88 84 86 81 82 73 5400 4000 4000 4000	930 380 540 480 140	MAR 54 54 52 53 48 52 51 60 52 56 2000 91 72 78 94 92	APR 2500 1500 1200 6300 1400 660 770 1500 1500 1400 1500 1400 1500 1300 900 840 760 1000 960 970 1300 1100 750 660 640 160 140 120	MAY 60 65 82100 7300 1800 1800 1300 1300 1300 2100 1700 700 690 190 180 4900 7700 4100 370 400 390 420 390 150 85 96 110	64 64 68 72 98 98 46 45 50 47 64 58 55 50 40 40 40 40 40 40 40 40 40 40 40 40 40	60 56 51 52 51 53 50 36 37 50 52 56 60 56 54 61 58 50 55 55 56 56 51 50 51 50 50 50 50 50 50 50 50 50 50 50 50 50	45 48 46 46 47 50 53 55 64 63 60 68 67 59 55 54 46 44 40 45 42 40 50 50 50 50 50 50 50 50 50 50 50 50 50	55 76 81 110 120 160 430 470 290 210 220 220 220 180 84 91 82 90 76 99 80 93 90 83 90 83 90 83 90 83 90 80 80 80 80 80 80 80 80 80 8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	180 160 100 110 100 92 91 100 110 100 110 75 69 81	55 50 50 50 45 55 50 40 40 100 100 95 2000 900 500 500	78 76 90 86 70 66	JAN 450 400 160 160 140 140 150 160 100 100 85 75 90 88 84 86 81 82 73 5400 4000 4000 4000 4000	930 930 380 540 480 140	MAR	APR 2500 1500 1200 2 6300 1400 660 770 1500 1500 1500 1400 1500 1300 900 840 760 1300 1300 970 1300 1100 750 660 640 160 140 120	MAY 60 65 58 2100 7300 1800 1800 1100 1300 1300 2100 1700 690 190 180 4900 7700 4100 370 400 390 420 390 150 85	64 64 64 68 72 98 98 96 45 50 47 64 58 50 50 49 40 40 40 40 40 40 40 40 40 40	60 56 51 52 51 53 50 36 37 50 56 60 56 54 61 58 50 55 55 55 56 56 50 81 52 56 56 56 56 56 57 57 57 57 57 57 57 57 57 57 57 57 57	45 48 46 46 47 50 53 55 64 63 60 68 67 59 55 54 44 40 45 48 44 40 45 40 40 40 40 40 40 40 40 40 40 40 40 40	55 76 81 110 120 160 430 470 220 220 220 220 220 180 84 91 82 90 76 99 80 93 93 90 83 99 98 93 91 90 90 90 90 90 90 90 90 90 90

292300090370000 BAYOU PETIT CAILLOU NEAR BOUDREAUX CANAL, NEAR DULAC, LA (CE 76303)

LOCATION.--Lat 29°23'00", long 90°37'00", T.19 S., R.18 E., Terrebonne Parish, Hydrologic Unit 08090302, 5.7 mi (9.2 km) east of Dulac.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: October 1976 to November 1978, November 1979 to current year. CHLORIDE: October 1974 to November 1978, November 1979 to current year.

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 33.0°C June 3, July 4, 31, 1977; minimum daily, 3.5°C Jan. 20, 1977.
CHLORIDE: Maximum daily, 9,600 mg/L Mar. 30, 1981; minimum daily, 12 mg/L Aug. 2, 12, 1975.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURES: Maximum daily, 30.0°C Aug. 13-15; minimum daily, 7.0°C Jan. 17-19, 21-24. CHLORIDE: Maximum daily, 9,600 mg/L Mar. 30; Minimum daily, 130 mg/L Oct. 31.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

DAY	oct	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.0	17.0	13.0	10.0	17.0	19.0	22.0	23.0	27.0	28.0	28.0	26.0
2	23.0	17.0	13.0	10.0	12.0	18.0	21.0	23.0	27.0	28.0	28.0	27.0
3	23.0	17.0	13.0	10.0	10.0	17.0	22.0	23.0	26.0	28.0	28.0	27.0
4	23.0	17.0	13.0	10.0	10.0	19.0	22.0	24.0	26.0	28.0	28.0	27.0
5	23.0	17.0	13.0	10.0	10.0	16.5	22.0	24.0	26.0	28.0	29.0	27.0
6	23.0	17.0	13.0	10.0	9.0	17.0	22.0	23.0	27.0	28.0	29.0	27.0
7	23.0	17.0	13.0	10.0	9.0	17.0	20.0	23.0	27.0	28.0	28.0	28.0
8	23.0	17.0	13.0	10.0	11.0	17.0	20.0	23.0	27.0	28.0	28.0	28.0
9	23.0	17.0	13.0	10.0	11.0	14.0	21.0	23.0	27.0	29.0	29.0	27.0
10	18.0	17.0	13.0	10.0	11.0	14.0	22.0	23.0	27.0	27.0	29.0	27.0
11	18.0	17.0	13.0	10.0	11.5	15.0	22.0	23.0	27.0	28.0	29.0	27.0
12	18.0	17.0	13.0	10.0	11.5	15.0	23.0	23.0	27.0	28.0	29.0	26.0
13	20.0	16.0	13.0	9.0	9.0	15.0	24.0	23.0	26.0	28.0	30.0	26.0
14	20.0	16.0	13.0	9.0	9.0	15.0	23.0	23.0	26.0	29.0	30.0	26.0
15	20.0	16.0	11.0	9.0	9.0	15.0	23.0	23.0	28.0	29.0	30.0	26.0
16	22.0	20.0	11.0	9.0	10.0	14.0	24.0	23.0	28.0	29.0		25.0
17	22.0	20.0	12.0	7.0	12.0	14.0	24.0	23.0	28.0	29.0	29.0	24.0
18	22.0	16.0	12.0	7.0	12.0	17.0	24.0	23.0	28.0	29.0	29.0	22.0
19	0.55	12.0	12.0	7.0	13.0	17.0	24.0	23.0	28.0	29.0	29.0	22.0
20	25.0	12.0	12.0	9.0	15.0	17.0	24.0	22.0	28.0	29.0	29.0	22.0
21	22.0	12.0	12.0	7.0	15.0	16.0	25.0	26.0	28.0	29.0	29.0	22.0
22	21.0	12.0	12.0	7.0	15.0	16.0	25.0	26.0	29.0	29.0	28.0	23.0
23	21.0	12.0	12.0	7.0	15.0	14.5	24.0	26.0	29.0	29.0	28.0	23.0
24	21.0	12.0	12.0	7.0	16.0	14.5	23.0	24.0	29.0	29.0	28.0	24.0
25	21.0	12.0	10.0	10.0	16.0	15.5	25.0	24.0	29.0	29.0	28.0	24.0
26	21.0	12.0	10.0	10.0	16.5	17.0	24.0	24.0	29.0	28.0	27.0	25.0
27	21.0	12.0	10.0	13.0	16.0	19.0	22.0	26.0	28.0	28.0	26.0	26.0
28	21.0	12.0	10.0	13.0	17.0	19.0		26.0	28.0	29.0	26.0	25.0
29	21.0	12.0	10.0	13.0		19.0		26.0	28.0	29.0	26.0	25.0
30	21.0	12.0	10.0	14.0		19.0		26.0	28.0	29.0	26.0	25.0
31	21.0		10.0	14.0		21.0		26.0		29.0	26.0	
MAX	23.0	20.0	13.0	14.0	17.0	21.0	25.0	26.0	29.0	29.0	30.0	28.0
WIN	18.0	12.0	10.0	7.0	9.0	14.0	20.0	22.0	26.0	27.0	26.0	22.0

MISSISSIPPI RIVER DELTA
292300090370000 BAYOU PETIT CAILLOU NEAR BOUDREAUX CANAL, NEAR DULAC, LA (CE 76303)--Continued

88

			CHLORIDE.	DISSOLVED		WATER YEAR	OCTOBER	1980 TO	SEPTEMBER	1981		
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3700	2200	3000	4000	6300	2200	6600	6500	5700	6400	2800	5000
2	3300	2200	3200	4200	5700	2800	4600	6600	6500	6200	2800	4500
3	4700	2600	3000	4300	5500	1400	6700	6700	6200	6200	2800	4600
4	4300	2400	2800	4000	5300	4100	6700	7000	6300	5900	3300	4500
5	3400	2500	2900	4200	4400	2900	6800	6500	6500	4400	3000	4000
6	4000	2400	3000	4400	5100	1800	3800	6700	6200	4600	3200	4000
7	4100	2700	6200	4200	2500	1700	4000	7200	6100	4400	3500	4000
8	4200	2700	6000	4000	2500	1500	6500	7500	4000	5500	3400	3800
9	4100	2600	3700	7500	1300	1500	5200	7600	4000	5600	3300	3800
10	4300	2700	3800	5800	1300	2100	5600	6600	5000	2800	3700	3800
11	3600	4700	3700	3900	410	2200	8000	6700	5600	3100	3300	4300
12	3400	2900	3700	4800	2300	2100	8000	5800	5200	2800	3500	4200
13	3400	7600	3700	5800	400	2500	8000	5800	5400	3100	3500	4400
14	4400	8600	3000	5000	1600	3200	5000	5700	5300	2800	3700	4400
15	5100	5800	3000	5200	2400	3800	4900	7100	5400	3700	4200	3600
16	5300	6100	3000	4400	730	3400	5000	7100	3500	5000		3700
17	5400	5100	4300	4500	770	4700	5000	7200	3400	4800	4300	3400
18	4600	5200	3900	5000	740	4500	6100	6800	3600	4900	2400	3400
19	4100	3800	3500	5600	520	2600	6200	6800	5300	4800	3400	5700
20	4600	3600	4400	4500	490	3900	6100	6900	3700	4700	3000	5800
21	4200	4400	4800	4500	450	4100	6200	6000	6500	3100	3400	4800
55	4800	4100	4000	4200	460	3600	6100	6200	4200	3300	3800	4700
23	4500	2500	4000	5600	450	2200	6700	6100	4300	3300	4300	4700
24	4500	6100	4000	6500	1700	2900	6800	6300	5100	5700	4300	4400
25	5100	3300	4000	9300	1900	1600	6700	6400	3200	5800	4400	4500
26	4900	3200	5000	7200	1800	740	6700	6500	3200	4300	4200	
27	5800	3200	4600	6300	1600	7800	7200	5200	3700	4200	4700	4800
28	900	3600	3100	6700	3000	8300		4800	3700	3600	4700	5000
29	800	2500	3500	6900		0058		6200	3900	3600	4700	6100
30	400	2300	3400	5900		9600		6600	3300	3700	4700	6100
31	130		4100	9400		6200		5600		3600	4700	
MAX	5800	8600	6200	9400	6300	9600	8000	7600	6500	6400	4700	6100
MIN	130	5500	2800	3900	400	740	3800	4800	3200	2800	2400	3400

MISSISSIPPI RIVER DELTA 292700090420000 BAYOU GRAND CAILLOU NEAR DULAC, LA (CE 76323)

89

LOCATION.--Lat 29°27'00", long 90°42'00", T.19 S., R.17 E., Terrebonne Parish, Hydrologic Unit 08090302, 4.0 mi (6.4 km) north of Dulac.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: October 1977 to November 1978, March 1980 to current year. CHLORIDE: October 1974 to November 1978, November 1979 to current year.

COOPERATION .-- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: Maximum daily, 36.0°C Oct. 10, Nov. 1, 8, 17, 1977, May 25, July 1, 1978; minimum daily, 6.0°C Dec. 25, 1980 Feb. 5, 12, 1981.
CHLORIDE: Maximum daily, 18,000 mg/L Nov. 2, 1974; minimum daily, 14 mg/L Aug. 6, 1975.

EXTREMES FOR CURRENT YEAR . --

WATER TEMPERATURES: Maximum daily, 32.0°C July 27, Sept. 12; minimum daily, 6.0°C Dec. 25, Feb. 5, 12. CHLORIDE: Maximum daily, 6,200 mg/L Feb. 1, 2; minimum daily, 40 mg/L Feb. 27, 28.

TEMPERATURE, WATER (DFG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

					7							
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	NUL	JUL	AUG	SEP
1		20.0		10.0	11.0	20.0	18.0	23.0	29.0	25.0	27.0	27.0
2		20.0		8.0	11.0	20.0	15.0	23.0	27.0	25.0	28.0	29.0
3		20.0		12.0	7.0	21.0	17.0	23.0	28.0	26.0	28.0	29.0
4		20.0		13.0	9.0	21.0	15.0	24.0	28.0	26.0	28.0	26.0
5		20.0		12.0	6.0	21.0	16.0	24.0	28.0	27.0	28.0	26.0
6		20.0		10.0	14.0	21.0	20.0	24.0	28.0	27.0	26.0	27.0
7		20.0		10.0	14.0	21.0	21.0	26.0	28.0	30.0	25.0	27.0
8		20.0		11.0	12.0	21.0	21.0	26.0	28.0	27.0	24.0	28.0
9		20.0	14.0	12.0	16.0	21.0	23.0	26.0	28.0	28.0	24.0	29.0
10	21.0	20.0	14.0	10.0	10.0	15.0	20.0	26.0	28.0	28.0	27.0	30.0
11	21.0	20.0	13.0	10.0	10.0	15.0	22.0	26.0	28.0	29.0	24.0	30.0
12	21.0	20.0	15.0	11.0	6.0	14.0	25.0	26.0	28.0	29.0	29.0	32.0
13	23.0	18.0	14.0	8.0	9.0	17.0	24.0	55.0	29.0	28.0	29.0	28.0
14	23.0	17.0	16.0	9.0	11.0	16.0	26.0	20.0	29.0	30.0	26.0	28.0
15	23.0	19.0	19.0	9.0	10.0	16.0	24.0	20.0	29.0	31.0	29.0	29.0
16	23.0	19.0	19.0	7.0	10.0	14.0	25.0	23.0	29.0	31.0	30.0	29.0
17	23.0	18.0	17.0	9.0	12.0	13.0	24.0	24.0	30.0	29.0	30.0	27.0
18	23.0	17.0	17.0	9.0	14.0	15.0	20.0	20.0	30.0	27.0	28.0	28.0
19	19.0	16.0	17.0	9.0	13.0	14.0	21.0	23.0	30.0	30.0	26.0	29.0
20	20.0	15.0		8.0	15.0	16.0	24.0	25.0	30.0	31.0	27.0	26.0
21	19.0	15.0		7.0	14.0	15.0	26.0	25.0	30.0	30.0	24.0	24.0
55	19.0	14.0		7.0	14.0	14.0	27.0	24.0	30.0	30.0	25.0	24.0
23	19.0	17.0	12.0	9.0	15.0	15.0	27.0	24.0	30.0	29.0	26.0	25.0
24	19.0	16.0	7.0	10.0	16.0		25.0	26.0	30.0	28.0	24.0	27.0
25	23.0	12.0	6.0	12.0	17.0		20.0	24.0	27.0	30.0	24.0	26.0
26	20.0	12.0	9.0	14.0	18.0		24.0	24.0	28.0	30.0	25.0	24.0
27	20.0	11.0	9.0	14.0	15.0		23.0	28.0	28.0	32.0	27.0	25.0
28	20.0	11.0	7.0	15.0	17.0			28.0	29.0	31.0	27.0	25.0
29	20.0	13.0	10.0	14.0				28.0	31.0	29.0	26.0	24.0
30	20.0	13.0	10.0	16.0				28.0	30.0	31.0	28.0	24.0
31	20.0		9.0	16.0				28.0		31.0	27.0	
MAX	23.0	20.0	19.0	16.0	18.0	21.0	27.0	28.0	31.0	32.0	30.0	32.0
MIN	19.0	11.0	6.0	7.0	6.0	13.0	15.0	20.0	27.0	25.0	24.0	24.0

MISSISSIPPI RIVER DELTA
292700090420000 BAYOU GRAND CAILLOU NEAR DULAC, LA (CE 76323) -- Continued

CHLORIDE, DISSOLVED (MG/L), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

					O	NCE-DAILY						
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	410	1200	500	6200	240	4800	4100	130	60	170	690
2	190	440	1300	480	6200	240	4900	4300	120	60	160	740
3	200	450	1200	480	2200	240	4900	4400	120	60	170	680
4	200	450	1300	520	2400	250	4900	4400	130	58	150	610
5	190	440	1400	490	370	240	4900	4400	130	60	140	700
6	120	440	1400	490	400	240	3900	4300	130	60	76	640
7	120	420	1300	470	150	240	3000	4400	120	110	74	700
8	120	440	1200	950	250	110	3700	4300	100	110	75	680
9	140	440	1400	940	200	99	1400	4300	74	110	72	700
10	110	440	1400	1700	210	79	1300	4300	67	110	75	660
11	110		1300	1700	190	80	1300	4400	60	110	75	680
12	150		300	1800	210	82	1300	410	70	100	76	660
13	350	1200	200	1700	110	97	1300	380	72	110	76	660
14	350	300	300	1700	110	86	820	380	69	70	74	680
15	350	200	230	1700	100	81	840	410	66	70	74	560
16	360	350	240	4000	100	110	830	380	70	68	73	520
17	820	310	230	4100	100	87	800	2000	68	72	82	520
18	1200	340	290	4100	110	120	820	2300	66	68	2600	510
19	1000	340	180	4000	100	120	880	380	65	70	2600	490
20	1200	540	200	4200	100	120	810	400	69	72	2600	560
21	1200	350	170	4200	500	110	850	380	71	180	2700	540
22	1200	340	180	4100	580	120	900	380	70	190	2600	470
23	1300	360	190	4200	86	110	900	360	64	190	2600	530
24	1200	320	240	4000	76	4800	900	380	55	210	2600	530
25	1200	320	250	4000	46	4800	810	420	58	200	2700	540
26	500	330	250	4200	43	4800	900	400	58	160	2600	560
27	500	330	250	5000	40	4800	880	220	60	180	2600	510
28	440	370	330	5000	40	4800		180	60	170	2700	540
29	460	250	330	5000		4800		160	60	170	2700	530
30	410	1400	340	6000		4900		160	59	170	2600	540
31	410		230	6100		4800		160		170	2700	
мдх	1300	1400	1400	6100	6200	4900	4900	4400	130	210	2700	740
MIN	110	200	170	470	40	79	800	160	55	58	72	470

07381325 HOUMA NAVIGATION CANAL AT HOUMA, LA (National stream-quality accounting network station)

LOCATION.--Lat 29°34'00", long 90°42'55", T.17 S., R.17 E., Terrebonne Parish, Hydrologic Unit 08090302, near center of span on downstream side of bridge on State Highway 661 at Houma.

DRAINAGE AREA . -- Indeterminate.

PERIOD OF RECORD. -- Water years 1977 to September 1981 (discontinued).

PERIOD OF DAILY RECORD . --

SPECIFIC CONDUCTANCE: April 1978 to September 1978, October 1979 to June 1980, October 1980 to September 1981 (discontinued).

WATER TEMPERATURES: April 1978 to September 1978, October 1980 to September 1981 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum daily, 26,000 micromhos Aug. 29, 1978; minimum daily, 152 micromhos Apr. 25, 26, 1980.

WATER TEMPERATURES: Maximum daily, 30.0°C many days during 1978; minimum daily, 9.0°C Jan. 22, 1981.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum daily, 21,100 micromhos Mar. 30; minimum daily, 337 micromhos Feb. 19. WATER TEMPERATURES: Maximum daily, 27.0°C Oct. 2; minimum daily 9.0°C Jan. 22.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM FLOW, INSTAN TANEOU (CFS)	CON- DUCI- S ANCE	РН	AT	PER- URE G C)	COLOR (PLAT INUM- COBAL UNITS	- т	TUR- BID- ITY NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND. BIO- CHEM- ICAL. 5 DAY (MG/L)	COLI- FORM, FECAL: 0.7 UM-MF (COLS./	KF AG (COLS	CI L, H	HARD- HESS HMG/L AS (ACO3)
0CT 15 JAN	1200	769	52	0 7	•1	23.5	1	0	8.5	6.8	6.7		к3	80	140
08	1300	2630	48	9 7	. 3	11.0	2	0	92	9.4	4.0	K76	,	K8	140
MAR 12 MAY	1200	3110	38	2 7	.3	16.0	4	0	50	8.9	4.6		к	75	120
13	1200	1960	46	8 7	.3	24.0	1	5	61	6.6	6.3		17	0.0	140
01 SEP	1100	E.0	0 39	6 7	.2	30.0	1	5	45	4.5	3.9	120	1	00	120
02	1000	1920	38	9 7	. 4	28.0	3	0	75	4.8	1.6		K8	50	110
DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIU DIS- SOLVE (MG/L AS CA	DIS- D SOLVE (MG/L	, SODIU DIS- D SOLVE (MG/	M, S D D SO L (M	TAS- JUM, IS- LVED G/L K)	ALKA- LINITY FIELD (MG/L AS CACO3	SU D S	LFATE IS- OLVED MG/L SO4)	CHLO- RIDE. DIS- SOLVED (MG/L AS CL)	FLUO- RIDE • DIS- SOLVED (MG/L AS F)	SILICA DIS- SOLVER (MG/L AS SIO2)	AT 18	UE SU O CO C TU	DLIDS, JM OF DNSTI- JENTS, DIS- GOLVED MG/L)
OCT															
15 JAN	36	38	12	45		4.1	10	8	51	64	• 5	5.4	3	00	285
08 MAR	44	35	12	48		3.6	9	3	48	68	• 5	4.6	2	74	276
12 MAY	40	31	9.	2 30		3.3	7	5	38	45	• 2	4.1	. 2	11	206
13 JUL	47	37	12	33		3.1	9	5	58	46	•1	4 • 1	2	66	251
01	33	31	10	33		3.3	8	6	47	47	• 1	6.9	2	29	232
02	24	30	9.	6 30		3.8	9	0	30	43	• 1	7.5	2	23	209
	NOS-	TRO- NO3 TAL S	2+NO3 DIS- AM OLVED T	ITRO- GEN: A MONIA OTAL	NITRO- GEN, MMONIA DIS- SOLVED (MG/L	NITE GEN + A MONIA ORGAN TOTA	AM- GFI A + MOI NIC OR AL D	ITRO- N,AM- NIA + GANIC IS. MG/L	PHOS PHORU TOTA (MG/	JS, DI	US, CARE S- ORGA VED TOT	NIC DI	BON, O ANIC S- P	ARBON. RGANIC SUS- ENDED TOTAL (MG/L	
DA	TE AS	N) A	S N) A	5 N)	AS N)	AS I	V) A	S N)	AS F) AS	P) AS	C) AS	C)	A5 C)	
		.35	•32	.16	.08	1.	.5	1.3	• 2	20 .	02		11		
NAU 80		.48	.48		.22	2.	. 3	1.4	. (03	13			
MAR 12		.35	.38	.01	.01	1.	. 8	1.2	. 1	2 .	04		19	2.2	
13		.1	1.1	.14	•10	1	.5	.91	• 3		13		8.2	1.0	
JUL 01 SEP		•58	•56	•10	.10	1	. 8	1.3	. 1	5 .	06		8.4	2.5	1
		.86	.89	<.06	<.06	1.	. 1	1.1	• 2		08	8.1			

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

E Estimated value.

07381325 HOUMA NAVIGATION CANAL AT HOUMA, LA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSEN TOTA (UGA	NIC D	SENIC TO DIS- REDLYED ER DG/L (U	RABLE SO	RIUM, IS- LVED UG/L S BA)	CADMITTOTAL RECOFRABILITIES (UG/LAS C	CAD V- D LE SO	MIUM IIS- FLVED E	HRO- IUM, OTAL ECOV- RABLE UG/L (S CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT TOTAL RECOV ERABL (UG/L AS CO	COBA - DIS E SULV	- /ED
0CT 15		3	1	300	100		1	2	0	0		2	<3
MAR		2	1	300	100		0	0	30	10		0	0
12 MAY				300	100		1	<1	10	0		1	<3
13 JUL		3	1										
01		7	3	200	500		5	<1	0	0		0	< 1
DA	TE	COPPER. TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)	IRON. TOTAL MECOV- ERABLE (UG/L AS FE)	SOL (UG	N, S- VED /L	LEAD. TOTAL RECOV- ERABLE (UG/L AS PR)	LEAD+ DIS- SOLVEI (UG/L AS PB)	(UG/	MAN L NES V- DI LE SOL L (UG	S- 1 VED 1	ERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	
15		12	6	2500		10	11		2 1	70	50	• 0	
		8	2	3300		70	4) 1	50	10	• 1	
		2	4	3100		30	21		2 1	30	7	.2	
01		12	7	2300		140	12	3	3 1	00	20	•1	
DA		MERCURY OIS- SOLVED (UG/L AS HG)	RECOV-	NICKEL. DIS- SOLVED (UG/L AS NI)	NIU TOT	M. AL	SELE- NIUM. DIS- SOLVED (UG/L AS SE)	SILVER TOTAL RECOV- ERABLI (UG/L AS AG	SILVE DIS SOLV (UG/	ED ER	ABLE	ZINC, DIS- SOLVED (UG/L AS ZN)	
OCT										4	2.0	10	
15 MAR	•••	.0	7	1		0	0		1	0	30	10	
		• 1	4	1		0	0		O	0	30	50	
13		.1	5	0)	0	0		0	0	50	20	
JUL		.0	5	2	2	0	0		0	0	20	10	

			SEDI-	SED.
	PHYTO-		MENT,	SUSP.
	PLANK-	SEDI-	DIS-	SIEVE
	TON.	MENT.	CHARGE ,	DIAM.
	TOTAL	SUS-	SUS-	% FINER
	(CFLLS	PENDED	PENDED	THAN
DATE	PER ML)	(MG/L)	(T/DAY)	.062 MM
OCT				
15	260000	162	336	87
JAN				
08		260	1850	97
MAR				
12	19000	194	1630	90
MAY				
13	13000	180	953	84
JUL				
01	550000	556	E.00	67
SEP				
02		133	689	98

< Actual value is known to be less than the value shown.

E Estimated value.

07381325 HOUMA NAVIGATION CANAL AT HOUMA, LA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY SEP OCT DAY NOV DEC JAN FEB MAR APR MAY JUN JUL AUG 7940 13100 2600 402 396 586 538 ------376 1 562 621 627 9920 2020 455 398 376 410 4080 573 590 552 613 4510 406 385 393 411 529 542 522 ---1230 ---527 410 369 393 5 548 465 ---1140 ------17900 417 363 390 468 390 451 537 970 519 398 361 511 863 6 ------528 552 685 1790 419 370 364 404 476 ------701 ---2390 464 376 392 455 532 551 532 9 559 ---501 630 ---1530 7840 373 370 384 498 ---10 533 544 510 759 ---967 496 390 391 453 11 525 508 935 486 737 484 370 388 392 491 12 477 473 ---519 380 625 423 367 384 380 478 ---13 513 521 407 388 658 461 370 384 ---440 ---14 523 16800 ---513 388 389 676 466 369 374 509 ------15 524 549 588 400 401 450 445 366 378 430 16 510 907 373 452 451 389 ---470 519 ---17 4510 ---751 372 ---893 545 356 386 422 18 4500 538 ---550 366 ---1120 470 368 369 465 ------472 530 6630 19 581 826 539 337 891 382 369 570 2750 424 378 377 383 486 20 980 21 2390 1970 ---433 ------371 383 1080 527 ---------55 536 2030 805 429 ---385 399 412 539 ---------23 635 3670 719 409 455 393 396 5380 505 ------590 1410 743 422 442 394 24 424 424 452 25 437 432 417 469 648 1160 1120 389 6660 479 26 520 1350 ---4470 ---429 ---582 379 431 406 ------27 730 842 5390 423 ---436 ------346 455 ---------445 428 498 28 569 695 7510 446 461 29 574 ---1720 445 436 371 519 471 548 ---30 554 21100 468 403 408 31 429 ---4190 ---1.0800 ---418 349 ---MAX 4510 16800 7510 13100 17900 417 431 6660 530 ---MIN 429 465 407 445 419 356 361 346 396 ------JEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY SEP DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG 1 17.0 14.0 15.0 22.0 5 27.0 14.0 ---17.0 14.0 22.0 3 18.0 15.0 15.0 ---22.0 26.0 19.0 15.0 ---14.0 ---25.0 5 18.0 ---14.0 ------24.0 ---------13.0 ---24.0 6 ---------19.0 24.0 14.0 23.0 8 23.0 20.0 14.0 24.0 19.0 ---13.0 14.0 ---24.0 ------10 23.0 20.0 12.0 15.0 25.0 21.0 15.0 25.0 11 24.0 12.0 ---17.0 12 24.5 20.0 14.0 25.0 ---13 24.0 20.0 11.0 17.0 25.0 10.0 14 24.0 20.0 13.0 18.0 26.0 ---15 25.0 20.0 12.0 11.0 18.0 24.0 16 25.0 20.0 11.0 14.0 24.0 ---17 26.0 10.0 13.0 ---25.0 17.0 ------18 26.0 10.0 11.0 24.0 19 19.0 10.0 14.0 25.0 20.0 18.0 20 21 22.0 15.0 ---19.0 ------------22 24.0 17.0 9.0 18.0 ---------18.0 25.0 23 16.0 25.0 10.0 18.0 24 16.0 ------19.0 ---25 23.0 16.0 11.0 26 22.0 16.0 ---11.0 18.0 ------------22.0 19.0 27 14.0 12.0 ------19.0 17.0 28 19.0 14.0 13.0 20.0 12.0 ------19.0 14.0 ------30 18.0 13.0 20.0 17.0 ------31 17.0 ---15.0 22.0 26.0 27.0 21.0

14.0

MIN

17.0

12.0

07381325 HOUMA NAVIGATION CANAL AT HOUMA, LA--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO JULY 1981

DATE TIME		15•80 1200		12,81		13,81	JUL	1.81	
TOTAL CELLS/ML	26	0000	19	9000	1:	3000	22	0000	
DIVERSITY: DIVISION CLASS ORDER FAMILY GENUS		0.3 0.3 0.6 0.9		1.0 1.0 1.7 1.8 2.4		1.5 1.5 2.0 2.3 3.0		0.3 0.3 0.6 0.9	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	
CHLOROPHYTA (GREEN ALGAE) •CHLOROPHYCEAE ••CHLOROCOCCALES •••CHARACIACEAE								CENT	
SCHROEDERIA HYDRODICTYACEAE		0		-		-		-	
PEDIASTRUM OOCYSTACEAE		-	-	-	590	5		-	
ANKISTRODESMUS		0	860	4	370	3	4	0	
DICTYOSPHAERIUM	1600	1		-		-		-	
KIRCHNERIELLA	1300	1	320	5	74	1	4	0	
SCENEDESMACEAE		0		-		-		-	
SCENEDESMUS	3200	1	430	2	1200	9	2600	1	
TETRASTRUM		-		-	300	2	1100	1	
VOLVOCALES								•	
CHLAMYDOMONADACEAECHLAMYDOMONAS	٠	0	110	1	450	3		0	
CHRYSOPHYTA .BACILLARIOPHYCEAE .CENTRALESCOSCINODISCACEAE									
CYCLOTELLA	2100	1	4700#		3600#		2600	1	
MELOSIRA STEPHANODISCUS	*	0	6400#	34	2200#				
PENNALESNAVICULACEAE		-		-	74	1		-	
DIPLONEIS	-22	(4)		-	74	1			
NAVICULA		-	110	1	74	1		-	
NITZSCHIACEAE									
NITZSCHIA	2100	1	3900#	20	1400	11		0	
CYANOPHYTA (BLUE-GREEN ALGAE) .CYANOPHYCEAE .CHROOCOCCALESCHROOCOCCACEAE									
AGMENELLUM	8400	3		-	2400#	18	12000	5	
ANACYSTISHORMOGONALES	4700	2	2100	11	150	1	2900	1	
NOSTOCACEAE									
APHANIZUMENON		-		-		-	8300	4	
CYLINDROSPERMUM OSCILLATORIACEAE	7400	3		•				•	
LYNGBYA	7900	3		-		-		-	
OSCILLATURIA	220000#	84		-		-	190000#	86	
EUGLENOPHYTA (EUGLENOIDS) .EUGLENOPHYCEAEEUGLENALESEUGLENACEAE									
PHACUS		-	110	1	74	1		_	
			-10		, 4	-		-	

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

95

07381327 HOUMA NAVIGATION CANAL AT CROZIER, LA (CE 76343)

LOCATION.--Lat 29°32'22", long 90°42'16", in lot 15, T.8 S., R.17 E., Terrebonne Parish, Hydrologic Unit 08090302, on right bank of canal and 0.8 mi (1.3 km) east of Crozier.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1966, 1975, 1976 to current year.

PERIOD OF DAILY RECORD . --

WATER TEMPERATURES: October 1976 to September 1978, October 1980 to September 1981.
CHLORIDE: October 1974 to September 1975, October 1976 to October 1978, November 1979 to current year.

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: Maximum daily, 31.0°C June 8-13, Oct. 1, 2, 3, 1977; minimum daily, 7.0°C Jan. 20, 21, 22, 23, 1978.
CHLORIDE: Maximum daily, 11,000 mg/L Nov. 17, 1980; minimum daily, 15 mg/L Apr. 25, 30, May 5, 11, 14, 31, 1980

EXTREMES FOR CURRENT YEAR. --

WATER TEMPERATURE: Maximum daily, 29.0°C Apr. 3; minimum daily, 10.0°C Jan. 17-21, 24-26, Feb. 14. CHLORIDE: Maximum daily, 11,000 mg/L Nov. 17; minimum daily, 36 mg/L June 8.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

				01	ACE-DAILY						
OCT	NOV	DEC	JAN	FFB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	18.0	14.0	13.0		20.0	22.0					
	17.0	14.0	13.0	16.0	20.0	24.0					
	19.0			15.0	20.0	29.0					
				14.0	20.0	24.0					
	18.0	15.0		15.0	20.0	24.0					
	18.0			13.0	19.0	24.0					
	19.0		16.0	14.0	19.0	23.0					
			15.0	14.0		24.0					
			14.0	14.0	17.0						
		18.0	15.0	14.0	18.0	23.0					
		18.0	16.0	14.0	17.0	23.0					
	18.0	18.0	15.0	13.0	17.0	24.0					
		15.0	14.0	11.0	17.0	24.0					
	19.0	17.0		10.0	17.0	25.0					
	19.0	15.0	11.0	16.0	17.0						
	19.0	16.0		13.0	17.0	24.0					
	19.0		10.0	17.0	17.0	25.0					
	19.0	15.0	10.0	18.0	17.0	24.0					
		16.0	10.0	18.0							
	16.0	15.0	10.0	19.0							
	16.0	14.0	10.0	19.0	17.0						
	16.0	14.0		17.0	17.0						
	16.0	14.0		17.0	17.0						
	16.0	14.0	10.0	18.0	18.0						
	16.0		10.0	18.0	19.0						
	15.0		10.0	18.0	19.0						
		14.0	12.0	18.0	18.0						
		12.0	13.0	19.0	19.0						
	12.0	12.0	13.0		19.0						
18.0	13.0	12.0	14.0		20.0						
17.0		12.0			22.0						
	19.0	18.0	16.0	19.0	22.0						
	12.0	12.0	10.0	10.0	17.0						
		18.0	18.0 14.0 17.0 14.0 19.0 15.0 19.0 15.0 18.0 18.0 18.0 18.0 15.0 18.0 18.0 18.0 18.0 18.0 18.0 19.0 15.0 19.0 17.0 19.0 15.0 19.0 15.0 19.0 15.0 16.0 14.0	18.0 14.0 13.0 17.0 14.0 13.0 19.0 15.0 18.0 15.0 18.0 15.0 18.0 15.0 16.0 15.0 18.0 15.0 18.0 15.0 18.0 15.0 18.0 15.0 19.0 16.0 19.0 17.0 19.0 17.0 19.0 16.0 11.0 19.0 15.0 10.0 19.0 15.0 10.0 16.0 14.0 10.0	OCT NOV DEC JAN FEB 18.0 14.0 13.0 17.0 14.0 13.0 16.0 19.0 15.0 15.0 19.0 15.0 15.0 18.0 15.0 15.0 18.0 15.0 15.0 18.0 15.0 14.0 16.0 14.0 18.0 16.0 14.0 18.0 16.0 14.0 18.0 15.0 13.0 19.0 16.0 15.0 13.0 19.0 17.0 10.0 19.0 15.0 11.0 16.0 19.0 16.0 13.0 19.0 16.0 17.0 16.0 10.0 18.0 16.0 10.0 18.0 16.0 14.0 10.0 18.0 16.0 14.0 10.0 19.0 16.0 14.0 10.0 18.0 16.0 14.0 17.0 16.0 14.0 10.0 18.0 17.0 18.0 18.0 17.0 18.0 18.0 17.0 18.0 18.0	18.0	OCT NOV DEC JAN FEB MAR APR 18.0 14.0 13.0 20.0 22.0 17.0 14.0 13.0 16.0 20.0 24.0 19.0 15.0 15.0 20.0 29.0 19.0 15.0 14.0 20.0 24.0 18.0 15.0 15.0 20.0 24.0 18.0 15.0 14.0 20.0 24.0 18.0 15.0 15.0 20.0 24.0 18.0 15.0 14.0 19.0 23.0 19.0 16.0 14.0 17.0 23.0 15.0 14.0 17.0 23.0 18.0 15.0 14.0 17.0 23.0 18.0 16.0 14.0 17.0 23.0 18.0 16.0 14.0 17.0 23.0 19.0 17.0 10.0 17.0 24.0 19.0 15.0 11.0 16.0 17.0 25.0 19.0 15.0 11.0 16.0 17.0 25.0 19.0 15.0 10.0 18.0 17.0 24.0 19.0 15.0 10.0 18.0 17.0 24.0 16.0 15.0 10.0 18.0 17.0 24.0 16.0 15.0 10.0 18.0 17.0 24.0 16.0 15.0 10.0 18.0 17.0 24.0 16.0 15.0 10.0 18.0 17.0 24.0 16.0 14.0 17.0 17.0 24.0 16.0 14.0 17.0 17.0 16.0 14.0 17.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 16.0 15.0 10.0 18.0 19.0 16.0 14.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17	OCT NOV DEC JAN FEB MAR APR MAY 18.0 14.0 13.0 20.0 22.0 17.0 14.0 13.0 16.0 20.0 24.0 19.0 15.0 15.0 20.0 29.0 19.0 15.0 15.0 20.0 24.0 18.0 15.0 15.0 20.0 24.0 18.0 15.0 15.0 20.0 24.0 18.0 15.0 15.0 20.0 24.0 18.0 15.0 14.0 19.0 23.0 19.0 1 16.0 14.0 17.0 23.0 18.0 15.0 14.0 17.0 23.0 18.0 15.0 14.0 17.0 23.0 18.0 15.0 14.0 17.0 23.0 18.0 15.0 14.0 17.0 24.0 19.0 17.0 10.0 17.0 24.0 19.0 17.0 10.0 17.0 25.0 19.0 15.0 11.0 16.0 17.0 25.0 19.0 15.0 10.0 18.0 17.0 24.0 19.0 15.0 10.0 18.0 17.0 24.0 19.0 15.0 10.0 18.0 17.0 24.0 19.0 15.0 10.0 18.0 17.0 24.0 16.0 14.0 10.0 18.0 17.0 24.0 16.0 14.0 17.0 17.0 24.0 16.0 14.0 17.0 17.0 24.0 16.0 14.0 17.0 17.0 16.0 14.0 10.0 18.0 17.0 16.0 14.0 10.0 18.0 17.0 16.0 14.0 10.0 18.0 19.0 16.0 14.0 10.0 18.0 19.0 16.0 14.0 10.0 18.0 19.0 16.0 14.0 10.0 18.0 19.0 16.0 14.0 10.0 18.0 19.0 16.0 14.0 10.0 18.0 19.0 12.0 12.0 13.0 19.0 19.0 17.0	OCT NOV DEC JAN FEB MAR APR MAY JUN 18.0 14.0 13.0 20.0 22.0 17.0 14.0 13.0 16.0 20.0 24.0 19.0 15.0 15.0 20.0 29.0 18.0 15.0 15.0 20.0 24.0 18.0 15.0 15.0 20.0 24.0 18.0 15.0 15.0 20.0 24.0 18.0 15.0 15.0 20.0 24.0 18.0 15.0 14.0 19.0 23.0 16.0 14.0 17.0 24.0 19.0 15.0 14.0 17.0 14.0 23.0 18.0 15.0 14.0 17.0 23.0 18.0 15.0 14.0 17.0 23.0 18.0 18.0 15.0 13.0 17.0 24.0 19.0 17.0 10.0 17.0 24.0 19.0 17.0 10.0 17.0 25.0 19.0 15.0 11.0 16.0 17.0 25.0 19.0 15.0 10.0 18.0 17.0 25.0 16.0 15.0 10.0 18.0 17.0 25.0 16.0 15.0 10.0 18.0 17.0 25.0 16.0 15.0 10.0 18.0 17.0 24.0 16.0 15.0 10.0 18.0 17.0 24.0 16.0 15.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 19.0 19.0 19.0 19.0 16.0 14.0 10.0 18.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 18.0 14.0 13.0 20.0 22.0 17.0 14.0 13.0 16.0 20.0 24.0 19.0 15.0 15.0 20.0 29.0 19.0 15.0 14.0 20.0 24.0 18.0 15.0 15.0 20.0 24.0 18.0 15.0 15.0 15.0 20.0 24.0 18.0 15.0 15.0 14.0 20.0 24.0 19.0 15.0 14.0 17.0 23.0 16.0 15.0 14.0 17.0 23.0 16.0 15.0 14.0 17.0 23.0 19.0 15.0 14.0 17.0 23.0 19.0 17.0 17.0 17.0 25.0 19.0 17.0 17.0 17.0 25.0 19.0 15.0 10.0 18.0 17.0 25.0 19.0 15.0 10.0 18.0 17.0 25.0 19.0 15.0 10.0 18.0 17.0 25.0 16.0 15.0 10.0 18.0 17.0 24.0 16.0 15.0 10.0 18.0 17.0 25.0 16.0 15.0 10.0 18.0 17.0 25.0 16.0 14.0 17.0 17.0 25.0 16.0 14.0 10.0 19.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 24.0 16.0 14.0 10.0 19.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 19.0 17.0 17.0 25.0 12.0 12.0 13.0 19.0 19.0 12.0 12.0 13.0 19.0 19.0 12.0 12.0 13.0 19.0 19.0 12.0 12.0 13.0 19.0 19.0 12.0 12.0 13.0 19.0 19.0 12.0 12.0 13.0 19.0 19.0 12.0 12.0 12.0 13.0 19.0 19.0 12.0	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG 18.0 14.0 13.0 20.0 22.0 17.0 14.0 13.0 16.0 20.0 24.0 19.0 15.0 15.0 20.0 24.0 19.0 15.0 14.0 20.0 24.0 18.0 15.0 15.0 20.0 24.0 18.0 15.0 15.0 20.0 24.0 18.0 15.0 15.0 20.0 24.0 18.0 15.0 14.0 19.0 23.0 19.0 16.0 14.0 19.0 23.0 14.0 15.0 14.0 18.0 23.0 15.0 14.0 18.0 23.0 15.0 14.0 17.0 23.0 15.0 14.0 17.0 24.0 19.0 15.0 13.0 17.0 24.0 19.0 15.0 17.0 10.0 17.0 25.0 19.0 15.0 11.0 16.0 17.0 16.0 15.0 10.0 18.0 17.0 25.0 19.0 15.0 10.0 18.0 17.0 25.0 19.0 15.0 10.0 18.0 17.0 25.0 16.0 14.0 10.0 18.0 16.0 14.0 17.0 17.0 16.0 14.0 17.0 17.0 16.0 14.0 17.0 17.0 16.0 14.0 17.0 17.0 16.0 14.0 17.0 17.0 16.0 14.0 10.0 18.0 17.0 16.0 14.0 17.0 17.0 16.0 14.0 17.0 17.0 16.0 14.0 10.0 18.0 19.0 16.0 14.0 17.0 17.0 16.0 14.0 17.0 17.0 16.0 14.0 10.0 18.0 18.0 16.0 14.0 17.0 17.0 16.0 14.0 17.0 17.0 16.0 14.0 10.0 18.0 18.0 12.0 13.0 19.0 19.0 12.0 13.0 19.0 19.0 12.0 13.0 19.0 19.0 12.0 13.0 19.0 19.0 12.0 13.0 12.0 14.0 22.0 19.0 18.0 18.0 18.0 12.0 13.0 12.0 14.0 22.0 19.0 18.0 18.0 18.0 12.0 12.0 13.0 19.0 19.0 12.0 12.0 13.0 12.0 17.0 12.0 12.0 13.0 12.0 17.0 12.0 12.0 13.0 13.0 13.0 19.0 12.0 12.0 13.0 13.0 13.0 13.0 19.0 12.0 12.0 13.0 13.0 13.0 0 19.0 12.0 12.0 13.0 13.0 13.0 0 19.0 12.0 12.0 13.0 13.0 13.0 0 19.0 12.0 12.0 13.0 13.0 13.0 0 19.0 0 12.0 13.0 13.0 13.0 0 19.0 0 12.0 13.0 13.0 13.0 0 19.0 0 12.0 13.0 13.0 13.0 0 19.0 0 12.0 13.0 13.0 13.0 0 19.0 0 12.0 13.0 13.0 13.0 0 19.0 0 12.0 13.0 13.0 13.0 0 19.0 0

07381327 HOUMA NAVIGATION CANAL AT CROZIER, LA (CE 76343)--Continued

CHLORIDE. DISSOLVED (MG/L). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

					Ü	NCE-DAIL!						
DAY	OCT	NOV	DEC	JAN	FER	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		140	90	74	2400	46	4100		50		50	49
2		140	120	73	3000	46	1500	63	45	61	46	50
3		140	85		180	52	1700	58		50	54	
4		110	75		260	46	2700	1100	40	60	58	
5		80	75		260	48	1500	8300	42	50	47	100
6		90			230	48	260		50	44	51	72
7		110		66	150	56	440	3800	42	45		82
8				72	130		670		36	45	50	73
9				63	100	59			44		49	86
10			85	74	140	56	170		40		50	74
11			70	85	84	55	110		47	65	48	76
12		85	90	70	74	56	150	58	46	65	50	
13		1500	150	75	74	56	170	52	42	60	49	
14		9400	130		70	61	57	59	40	52		
15		10000	160	95	60	53	60	54	42	56		56
16		9800	120	140	64	56	48	54	40	49		46
17		11000		76	77	55	170	73	40	48		62
18		5400	130	74	59	59	240	57	38			63
19			150	92	48		160	100	44		43	90
50		1500	140	290	54		73	44			50	82
21		600	110	100	48	54	49	46		50	50	76
55		1500	130		47	52	51	49		58	54	84
23		2100	120		42	54	54	86		57	50	
24		1100	69	130	50	92		85	48	65	50	64
25		550		260	48	100		70	49	50	50	69
26		550		990	50	160		70	50	50		66
27			70	1600	52	86		72	52	50	54	64
28	90		60	2200	50	66		60	58	60	760	71
29	85	340	56	5000		450		55	53		1500	
30	80	440	61	2300		6900		50	53	53	1700	
31	65		54			3300				60	120	
MAX	224	11000	160	2300	3000	6900	4100	8300	58	65	1700	100
MIN		80	54	63	42	46	48	44	36	44	47	46

292345090504500 LAKE DE CADE NEAR THERIOT, LA (CE 91905)

LOCATION.--Lat $29^\circ23'45''$, long $90^\circ50'45''$, in SW1/4NE1/4 sec.29, T.19 S., R.16 E., Terrebonne Parish, Hydrologic Unit 08090302, 7.3 mi (11.8 km) southwest of Theriot.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1978 to January 1981 (discontinued).

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM. TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	
oct		****											
28	1255	6190	8.0	10	О	<1.0	8.0	68	1.9	K120	K45	730	
18 DEC	1525	8150	7.8	20	20	<1.0	9.3	67	1.1	-	K20	910	
10 JAN	1249	7140	7.4	15	15	<1.0	8.9	53	1.9		K24	800	
20	1315	5260	7.5	20	50	<1.0	12.6	94	4.4	К8	<4	610	
DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)	
28	620	77	130	1000	36	110	220	1900	16	.09	.00	.09	
NOV													
18 DEC	810	83	170	1400	55	95	260	2500	54	•00	•00	.00	
10 JAN	710	73	150	1300	44	93	300	2300	44	.08	.01	.09	
20	510	61	110	890	29	97	230	1600	142	•12	•02	.14	
DATE	NITRO- GEN·AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)	
ост													
28	.96	.16	1	1	0	0	0	0	10	0	7	2	
18 DEC	.83	.11	0	0	0	0	0	0	0	0	8	3	
10	1.6	.05	1	0	0	0	0	0	0	0	3	3	
20	. 95	.12	1	0	0	0	0	0	20	0	7	1	

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

292345090504500 LAKE DE CADE NEAR THERIOT, LA (CE 91905)--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	501 (U	ON, IS- LVED G/L FE)	TO RE ER (U	AD; TAL COV- ABLE G/L PB)	501 (U	AD. IS- VED G/L PB)	TO RE ER (U	CURY TAL COV- ABLE G/L HG)	MERCUR DIS- SOLVE (UG/L AS HG	Y T R D E	CKEL, OTAL ECOV- RABLE UG/L S NI)	DI SO	CKEL+ (S- DLVED JG/L S NI)	NI TO	LE-	SEL NIU DI SOL (UG AS	M. S- VED /L	ZINC TOTAL RECO ERABI (UG/I	V- LE :	ZINC DIS SOLV (UG/ AS Z	ED T	ARBON, RGANIC TOTAL (MG/L AS C)
28		10		5		0		.0		0	6		2		0		0		10		10	
18		170		5		0		.0			6		2		0		0		20		10	10
10		30		2		1		. 1			3		3		0		0		30		20	4.2
JAN 20		40		14		0		.0			7		3		0		0		20		10	22
DATE	Ē	CYANI TOTA (MG/ AS C	L	PHENO		OIL A GREAS TOTA RECO GRAV METR (MG/	E, V. I- IC	PC6 TOT/ (UG/)	B C	APH- THA- ENES, POLY- HLOR. OTAL UG/L)	ALDR TOT		CHLO DANE TOTA (UG/	Ļ	DDD, TOTAL (UG/L		DDE . TOTAL (UG/L		DDT. TOTAL (UG/L		DI= ZINON, TOTAL (UG/L)	
OCT 28.			00		1		0		. 0	.0		000		. 0	.00	0.0	.00	0	.000	0	.01	
NOV 18.			00		2		0		.0	.0		000		.0	.00		.00		.000		.01	
DEC 10.			00		0		0		. 1	<.1		001		. 1	<.00		<.00		<.00		.02	
JAN 20.			00		0		0		.1	<.1		001		. 1	<.00		<.00		<.00		<.01	
DATE	Ε	DI- ELDR TOTA (UG/	IN	ENDO SULFA TOTA (UG/	N.	ENDRI TOTA (UG/	L	ETHI(TOT) (UG)	ON C	EPTA- HLOR, OTAL UG/L)		IDE	LINDA TOTA (UG/	L	MALA- THION TOTAL (UG/L	,	METH- OXY- CHLOR TOTAL (UG/L	•	METHYI PARA- THION TOTAL (UG/L	,	METHYL TRI= THION, TOTAL (UG/L)	
OCT 28.		. 0	00	. 0	00	. 0	00		.00	.000		000	.0	00	.0	00	.0	0	.0	0	.00)
NOV 18.			0.0		00	. 0			.00	.000		000	. 0	00	.0		.0		.0		.00	
DEC 10.		<.0	01	<.0	01	<.0	01			<.001	<.	001	<.0	01	<.0		<.0		<.0		<.01	1
JAN 20.		<.0	01	<.0	01	<.0	01	<	.01	<.001	<.	001	<.0	01	<.0) 1	<.0	1	<.0	1	<.01	1
DATE	Ē	MIRE TOT (UG/	AL	PARA THIO TOTA (UG/	N.	PER THAN TOTA (UG/	E L	TOX APHER TOTA (UGA	NE .	OTAL TRI- HION UG/L)	2•4 TOT (UG		2, 4- TOTA (UG/L	L	2,4,5- TOTAL (UG/L		SILVEX TOTAL (UG/L	• CH	HLOR-PHYTO-PLANK-TON HROMO-UOROM	CI M F	HLOR-E PHYTO- PLANK- TON HROMO LUORON (UG/L)	1
OCT 28.			00		00		00		.0	.00		.14		00	.0	0 0	• 0	0 :	37.8		.000	0
NOV 18.			00		00		00		. 0	.00		.13		00	.0	00	. 0	0	31.9		4.27	
DEC 10.			01	<.	01	<.	01		<.1	<.01		.03		00	. 0	00	.0	1	4.42		.000	0
JAN 20.			01		01	۷.	01		<.1	<.01		.03		00	. 0	00	.0	1	27.3		.000	0

< Actual value is known to be less than the value shown.

07381557 CHICOT PASS AT MYETTE POINT, NEAR CHARENTON, LA (CE 03750)

LOCATION.--Lat 29°53'40", long 91°26'46", T.13 S., R.10 E., St. Mary Parish, Hydrologic Unit 08080101, 5.0 mi (8.0 km) east of Charenton and at mile 95.4 (153.5 km).

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE (UMHOS) (UNITS) (DEG C) UNITS) (NTU) HR) (MG/L) (MG/L) (MG/L) 100 ML OCT 28 1345) K4
28 1345	5 K10
DEC 10 1620 479 7.6 10 25 <1.0 8.5 14 .1 K9 DEC 10 0957 542 8.0 5 30 <1.0 10.5 23 1.1 JAN 20 1445 573 7.8 5 10 <1.0 12.4 22 2.6 K2 JUN 09 1400 297 7.0 20 100 <1.0 6.1 27 .4 K70 AUG 11 1200 350 6.5 28.5 20 160 <1.0 6.4 50 .9 K25000 HARD- NESS- NONCAR- DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS	
10 0957 542 8.0 5 30 <1.0 10.5 23 1.1 JAN 20 1445 573 7.8 5 10 <1.0 12.4 22 2.6 K2 JUN 09 1400 297 7.0 20 100 <1.0 6.1 27 .4 K70 AUG 11 1200 350 6.5 28.5 20 160 <1.0 6.4 50 .9 K25000 MAGNE- HARD- NESS CALCIUM SIUM, SODIUM, SIUM, LINITY SULFATE RIDE, AT 105 GEN, NESS NONCAR- DIS- NESS NONCAR- DIS- NESS (MG/L (MG/L MG/L (MG/L (MG/L MG/L AS (MG/L MG/L MG/L AS (MG/L MG/L MG/L MG/L AS (MG/L MG/L MG/L MG/L MG/L AS (MG/L MG/L MG/L MG/L MG/L MG/L MG/L MG/L	K32
20 1445 573 7.8 5 10 <1.0 12.4 22 2.6 K2 JUN 09 1400 297 7.0 20 100 <1.0 6.1 27 .4 K70 AUG 11 1200 350 6.5 28.5 20 160 <1.0 6.4 50 .9 K25000 HARD- NESS CALCIUM SIUM, SODIUM, SIUM, LINITY SULFATE RIDE, AT 105 GEN, NFSS NONCAR DIS- DIS- DIS- DIS- FIELD DIS- DIS- DEG. C, NIFRAT (MG/L BONATE SOLVED	
09 1400 297 7.0 20 100 <1.0 6.1 27 .4 K70 AUG 11 1200 350 6.5 28.5 20 160 <1.0 6.4 50 .9 K25000 HARD-	8 K2
11 1200 350 6.5 28.5 20 160 <1.0 6.4 50 .9 K25000 HARD-) K64
HARD- NESS CALCIUM SIUM, SODIUM, SIUM, LINITY SULFATE RIDE, AT 105 GEN, NESS NONCAR- DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS	K38000
28 150 30 37 13 29 3.5 116 47 34 25 .8 NOV 18 170 51 42 16 44 4.4 120 70 53 36 .8 DEC 10 160 47 38 15 35 3.6 108 68 39 52 - JAN 20 180 42 47 16 43 3.2 141 63 54 26 1.1 JUN	GEN,
NOV 18 170 51 42 16 44 4.4 120 70 53 36 8 8 DEC 10 160 47 38 15 35 3.6 108 68 39 52 - JAN 20 180 42 47 16 43 3.2 141 63 54 26 1.1 JUN	
18 170 51 42 16 44 4.4 120 70 53 36 .8 DEC 10 160 47 38 15 35 3.6 108 68 39 52 - JAN 20 180 42 47 16 43 3.2 141 63 54 26 1.1 JUN	• 01
10 160 47 38 15 35 3.6 108 68 39 52 - JAN 20 180 42 47 16 43 3.2 141 63 54 26 1.1 JUN	•01
20 180 42 47 16 43 3.2 141 63 54 26 1.1 JUN	
	• 0 1
09 110 34 29 8.0 16 2.9 71 44 21 260 1.7	.02
11 120 39 33 9.5 20 3.6 83 44 23 290 .9	•01
NITRO- NITRO- GEN; AM- GEN; MONIA + PHOS- NO2+NO3 ORGANIC PHONUS, ARSENIC DIS- TOTAL DIS. TOTAL TOTAL SOLVED ERABLE SOLVED ERABLE SOLVED ERABLE DIS. (MG/L (MG/L (MG/L (UG/L (ERABLE (UG/L
	7
) 49
) 4
JAN 20 1.1 .87 .06 1 1 0 <1 0 <1 0 JUN) 4
	14
	21

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

07381557 CHICOT PASS AT MYETTE POINT, NEAR CHARENTON, LA (CE 03750) -- Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	COPPER. DIS- SOLVED (UG/L AS CU)	IRON. DIS- SOLVED (UG/L AS FE)	LEAU. TOTAL RECUV- FRABLE (UG/L AS PB)	LEAD. DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKE DIS- SOL' (UG.	VED TO	UM, ITAL SI	IUM, DI DIS- D DLVED SC UG/L (L	UM, DIS- DLVED	ZINC+ TOTAL RECOV- ERABLE (UG/L AS ZN)
28	3	40	4	0	.0	. 0	7		3	0	0	1.0	10
18	4	40	3	6	. 0	.0	3		2	0	0	6.0	10
10	3	40	4	1	.0	• 0	5		3	0	0	1.0	30
20	2	30	14	2	.1	.0	6		0	0	0	1.0	0
UN 09	6	60	4	3	.1	.0	11		3	0	0	3.0	50
UG 11	4	16	2	2	.2	•1	11		2	1	0	1.0	50
DATE	ZINC. DIS- SOLVED (UG/L AS ZN)	CARBON. ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDR TOT (UG	IN. DA	TAL T	OTAL T	DDE. DTAL UG/L)	DDT, TOTAL (UG/L)
CT			•00	0	0	• 0	.0		000	. 0	.000	.000	.000
28	3		.00	1	0	.0	.0		000	.0	.000	.000	.000
18 EC	<3	4.5	•00	0	1	<.1	<.1		001	<.1	.001	.001	<.001
10	3	7.4	.00	1	0	<.1	<.1		001			<.001	<.001
20	7	5.4		1	0	<.1	<.1		001			<.001	<.001
09 UG 11	40	8.0	•01	0	0	<.1	<.1		001	<.1		<.001	<.001
DATE	nI- AZINON+ TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION. TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LIND TOT (UG	ANE TH	ALA- HION, C DTAL T	OXY- P. HLOR, TI OTAL T	ETHYL ARA- HION, DTAL UG/L)	METHYL TRI- THION. TOTAL (UG/L)
CT 28	.01	.002	.000	.000	.00	.000	.000		000	.00	.00	.00	.00
ov 18	.00	.002	.000	.000	.00	.000	.000		000	.00	.00	.00	.00
EC 10	.01	.001	<.001	<.001	<.01	<.001	<.001	<.	001	<.01	<.01	<.01	<.01
AN 20	.01	<.001	<.001	<.001	<.01	<.001	<.001	<,	001	<.01	<.01	<.01	<.01
JN 09	<.01	<.001	<.001	<.001	<.01	<.001	<.001	<.	001	<.01	<.01	<.01	<.01
JG 11	.06	<.001	<.001	<.001	<.01	<.001	<.001	<.	001	<.01	<.01	<.01	<.01
DA	T	TAL TO	TAL TO	TAL TO	TAL THE	ION TOT		4-DP TAL /L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	FLUUROM	CHLOR- PHYTO PLANM TON CHROMO FLUORO (UG/L) - (-) M
001	т В	.00	.00	.00	. 0	.00	.02	.00	.01	.00	3.10	• 0 0	00
NOV		.00	.00	.00	.0	.00	.03	.00	.01	.00	4.72	.00	00
DEC	C			<.01		<.01	.02	.00	.01	.00		• 0 0	00
JAL	N			<.01		<.01	.03	.00	.01	.00		.00	0.0
JUL	N			<.01		<.01			.01	<.01			
0.0						< . 01	.05	<.01	. 0 1	01			, ,

11...

< Actual value is known to be less than the value shown.

07381590 WAX LAKE OUTLET AT CALUMET, LA

LOCATION.--Lat 29°41'52", long 91°22'22", in lot 56, T.15 s., R.11 E., St. Mary Parish, Hydrologic Unit 08080101, at Southern Pacific Transportation Co. railroad bridge, 160 ft (49m) downstream from State Highway 90, 0.4 mi (0.6 km) downstream from Bayou Teche, 0.5 mi (0.8 km) west of Calumet, and 9.8 mi (15.8 km) west of Morgan City.

DRAINAGE AREA. -- Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1973 to June 1975 (discharge measurements only), October 1976 to current year (elevations and discharge measurements only). Gage heights, May 1942 to September 1976 and discharge, 1942-46, 1949-55, and intermittently, 1957 to current year (collected in same vicinity) are in reports of Corps of Engineers, New Orleans district.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Relief outlet for Atchafalaya basin; discharge and elevation affected by tide at all stages.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 7.32 ft (2.231 m) May 4, 1979; minimum, -1.01 ft (-0.308 m) Jan. 17, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4.45 ft (1.356 m) June 15; minimum, -1.01 ft (-0.308 m) Jan. 17.

DISCHARGE MEASUREMENTS MADE	DURING	YEAR
-----------------------------	--------	------

Date	Discharge (ft ³ /s)	Date	Discharge (ft ³ /s)	Date	Discharge (ft ³ /s)
Oct. 16, 1980	43,000	Mar. 9	91,100	June 23	. 124,000
Nov. 10		Mar. 23	69,700	July 14	. 96,800
Nov. 18	29,000	Apr. 7	44,700	July 28	. 63,200
Dec. 2	38,500	Apr. 21	52,200	Aug. 4	
Dec. 16	42,100	May 12	57,800	Aug. 11	
Jan. 6, 1981	32,100	May 27	87,800	Sept. 1	
Jan. 28	11,000	June 9	122,000	Sept. 15	. 62,700
Feb. 17	63,600				

ELEVATION	(FEET	NGVD) .	WATER	YEAR	OCTOBER	1980	10	SEPTEMBER	1981
	INST	ANTANEO	IS ORSE	HVAT	TONS AT	0.086			

DAY	901	NOA	DEC	NAL	FER	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.34	.78	.84	.28	1.00	1.13	1.35	1.97	3.62	4.16	2.45	2.52
2	1.88	.84	1.05	13	10	1.17	.89	1.79	3.83	4.13	2.42	2.54
3	.84	.87	.26	.07	31	1.24	1.28	2.69	3.81	4.04	2.63	2.08
4	1.45	.62	.83	.27	.53	2.22	2.31	3.04	3.69	3.90	2.65	2.09
5	1.30	.38	.72	18	.45	2.04	1.30	3.37	3.83	3.91	2.23	1.68
6	1.15	.85	.88	.58	.75	1.82	1.63	3.07	3.91	3.82	2.15	1.99
7	1.32	.98	1.14	.20	1.72	2.44	2.26	2.98	3.61	3.68	2.23	1.83
В	1.50	1.34	1.46	.53	1.63	2.31	2.55	2.96	3.49	3.56	2.23	1.95
9	1.54	1.42	1.50	1.07	1.66	2.09	2.03	2.81	3.51	3.21	2.20	1.45
10	1.53	1.18	.74	.70	2.97	5.50	1.41	2.36	3.86	3.12	2.37	2.17
11	1.50	1.33	.73	.45	.68	2.16	1.36	1.49	4.03	3.08	2.58	2.39
12	.89	1.21	1.20	49	08	2.03	1.29	1.44	4.17	3.28	2.56	2.24
13	.93	2.17	1.06	.56	.54	1.93	1.29	1.98	4.30	3.28	2.57	2.23
14	1.42	2.45	.70	.18	. 47	1.95	1.36	2.16	4.30	3.16	2.47	2.45
15	1.53	5.01	• 95	06	.77	2.03	1.16	1.52	4.40	3.05	2.53	2.51
16	2.12	1.37	.86	25	1.29	1.95	1.34	2.49	4.27	3.07	2.35	2.00
17	2.34	2.82	.31	71	1.17	1.86	1.73	2.94	4.10	2.92	2.56	1.26
18	2.23	.47	.80	45	1.36	2.59	1.94	3.06	3.99	2.65	2.24	.72
19	2.61	.35	1.09	13	1.22	1.47	2.16	3.09	4.03	2.32	1.98	1.46
20	.36	.23	.56	.82	1.08	1.42	2.25	.93	4.06	2.19	1.72	1.98
21	1.01	06	.84	11	1.28	2.22	1.95	1.48	4.14	2.17	1.60	2.01
55	. 95	.57	1.18	.59	1.61	2.12	2.41	1.65	4.02	2.14	1.86	2.07
53	1.16	1.51	1.55	.38	1.36	.84	2.13	2.45	3.82	1.99	2.11	1.78
24	1.01	.89	1.71	.67	1.12	1.23	1.35	2.23	3.85	2.02	2.35	1.57
25	13	.92	.32	1.29	.93	1.15	1.96	2.31	3.88	2.35	2.25	1.47
26	1.03	. 36	1.44	. 46	1.07	1.13	1.88	2.65	3.76	1.87	2.37	1.70
27	2.05	•52	• 98	1.09	.97	1.31	1.86	2.30	3.83	1.92	2.92	1.61
28	1.70	.81	.68	.70	.99	1.17	1.83	2.47	3.89	2.57	2.80	1.64
59	.36	.86	. 46	.62		1.78	1.85	2.86	3.90	2.50	2.67	1.65
30	.61	.68	.06	.27		1.75	1.80	3.30	3.95	2.71	2.87	1.79
31	,49		.05	28		1.19		3.44		2.62	2.81	
MEAN	1.29	1.02	.87	.31	1.00	1.74	1.73	2.43	3.93	2.95	2.38	1.89
MAX	2.61	2.82	1.71	1.29	2.97	2.59	2.55	3.44	4.40	4.16	2.92	2.54
MIN	13	06	.05	71	31	.84	.89	.93	3.49	1.87	1.60	.72

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD. -- Water years 1956, 1959-60, 1973 to current year.

PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: October 1976 to current year.
CHLORIDE-SURFACE: October 1974 to current year.
CHLORIDE-25 FT DEPTH: December 1980 to September 1981.
CHLORIDE-45 FT DEPTH: December 1980 to September 1981.

COOPERATION.--Chloride samples collected by the Corps of Engineers and analyzed by the Geological Survey. Corps of Engineers station 03720.

EXTREMES FOR PERIOD OF DAILY RECORD. --

THEMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 33.0°C July 20, 1978; minimum daily, 2.5°C Feb. 10, 11, 1978.
CHLORIDE-SURFACE: Maximum daily, 150 mg/L June 13, 14, 1977; minimum daily, 9.1 mg/L Apr. 15, 1976.
CHLORIDE-25 FT DEPTH: Maximum daily, 81 mg/L Mar. 8, 1981; minimum daily, 19 mg/L June 9, 1981.
CHLORIDE-45 FT DEPTH: Maximum daily, 110 mg/L Mar. 8, 1981; minimum daily, 20 mg/L June 3, 1981

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURES: Maximum daily, 32.0°C July 29-31; minimum daily, 5.5°C Jan. 12, 13, 17, 18, 22-24. CHLORIDE-SURFACE: Maximum daily, 70 mg/L Oct. 11; minimum daily, 25 mg/L many days during the year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

2022	TIME	STREAM- FLOW, INSTAN- TANEOUS	SPE- CIFIC CON- DUCT- ANCE	РН	TEMPER-	COLOR (PLAT- INUM- COBALT	TUR- BID- ITY	SETTLE- ABLE MATTER (ML/L/	OXYGEN, DIS- SOLVED	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL)	OXYGEN DEMAND. BIO- CHEM- ICAL. 5 DAY	COLI- FORM, TOTAL, IMMED. (COLS. PER
DATE		(CFS)	(UMHOS)	(UNITS)	(DEG C)	UNITS)	(NTU)	HR)	(MG/L)	(MG/L)	(MG/L)	100 ML)
16 NOV	1100	43000	417	7.2	22,5	10	25	<1.0	8.3	26	1.1	
18 DEC	1100	29000	475	7.6	15.5	15	30	<1.0	8.8	26	2.7	K180
16	1000	42100	474	7.2	12.5	5	25	<1.0	10.7	29	1.5	
JAN 28	1330	11000	538	7.3	9.0	5	8.0	<1.0	11.2	34	2.3	<5
FEB 17	1000	63600	420	7.1	6.0	20	50	<1.0		16	1.9	160
MAR 23	1000	69700	340	7.1	12.0	15	40	<1.0	10.0	19	1.1	100
APR 21	0900	52200	402	7.3	21.0	10	25	<1.0	10.0	10	1.5	K30
MAY 27	1000	87800	372	7.3	22.0	15	100	<1.0	7.6	32	1.6	K2500
JUN 23	1100	124000	376	6.1	28.0	20	75	<1.0	6.1	33		1600
JUL 14	1000	96800	344	7.7	29.0	15	130	<1.0	5.9	52	1.8	
AUG 11	0930	77100	350	8.1	29.0	15	180	<1.0	6.6	67		K450
SEP 01	1000	40000	482	7.3	28.5	5	20	<1.0	7.3	54	2.2	K130
DATE	COLI- FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS. RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
OCT 16	K200	140	37	38	12	28	3.5	108	53	29	34	1.1
NOV 18	K50	160	42	42	14	32	3.7	121	72	35	31	.89
DEC 16	K50	160	57	37	15	36	3.4	99	71	45	38	.75
JAN 28	<5	200	57	54	17	37	3.0	148	62	42	11	1.2
FEB 17	K15	140	46	37	12	26	2.8	96	59	30	92	.99
MAR 23	K40	120	44	33	9.4	18	2.9	77	46	23	92	1.7
21	K10	140	50	36	11	24	3.1	85	66	26	41	1,1
MAY 27	100	120	39	31	, 11	25	2.7	84-	45	30	290	1.7
JUN 23	88	120	48	33	8.4	27	2.9	69	63	39	276	.94
14	K150	120	32	32	9.1	22	3,1	85	48	28	105	1.3
AUG 11	K55	120	26	32	9.5	19	3.6	93	44	20	348	1.1
11000												

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal ccunt).

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

DATE	NITRO- GEN. NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN:AM- MONIA + ORGANIC DIS: (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM. TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)
OCT 16	.01	1.1	•58	.10	2	2		10	0	<1	0	0
NOV 18	.00	.89	.87	.11	2	1	0	<1	1	<1	0	0
DEC 16	.01	.76	•87	.12	1	1	0	<1	0	2	20	0
JAN 28 FEB	.01	1.2	•85	.09	1	1	0	<1	0	<1	0	0
17	.01	1.0	.29	.08	?	1	0	<1	1	<1	0	0
23 APR	.03	1.7	1.3	.18	1	0	0	0	1	<1	20	0
21 MAY	.01	1.1	.89	.12	1	1	0	<1	0	1	20	0
27	.01	1.7		.41		2	0	0	2	0	20	0
23	.01	.95	1.2	.14	5	2	0	<1	1	<1	30	0
14 AUG	.03	1.3	1.9	.23	3	1	0	0	1	1	10	0
11	.00	1.1	1.3	.40	4	2	0	<1	3	<1	20	0
01	.03	1.6	•86	.21	3	2	0	<1	0	<1	10	0
DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)	IRON. DIS- SOLVED (UG/L AS FE)	LEAD+ TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PR)	MERCURY TOTAL RECOV- FRABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL. TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
0CT 16	15	5	10	4	0	.0	.0	6.	0	0	0	1.0
NOV 18	12	6	20	6	2	.1	.0	9	1	0	0	6.0
DEC 16	19	10	20	5	10	.1	.0	4	0	0	0	6.0
JAN 28	В	4	20	12	0	• 1	. 0	4	1	0	0	.0
17	13	4	20	5	1	.3	.1	5	3	0	0	.0
23 APR	13	4	40	7	0	.2	.2	6	3	0	0	3.0
21 MAY	14	6	10	6	1	. 1	. 0	3	5	0	0	1.0
27 JUN	19	16	50	24	4	. 4	1.0	9	2	0	0	.0
23 JUL	16	В	50	23	3	.8	• 2	12	2	0	0	1.0
14 AUG	10	5	40	3	0	• 2	• 1	7	0	0	0	3.0
SFP	54	4	14	9	1	• 1	.0	13	2	1	0	1.0
01	6	6	< 10	4	0	. 1	.0	2	4	0	0	3.0

< Actual value is known to be less than the value shown.

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

DATE	ZINC+ TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC+ DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	PCB. TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE + TOTAL (UG/L)	DDD. TOTAL (UG/L)	DDE, TOTAL (UG/L)
ост							•	0	.000	.0	.000	.000
16 NOV	30	3	13	.00	0	0	.0	• 0				
18 DEC	30	9	6.4	.00	1	0	<.1	<.1	<.001	<.1	<.001	<.001
16	370	70	6.6	.00	0	0	<.1	<.1	<.001	<.1	<.001	<.001
JAN 28	20	10	8.1	.00	2	0	<.1	<.1	<.001	<.1	<.001	<.001
FE8 17	40	10	9.2	.00	1	0	<.1	<.1	< .001	<.1	<.001	< .001
MAR 23	40	10	7.7	.00	2	0	<.1	<.1	<.001	<.1	<.001	<.001
APR	80	20	4.5	.00	0	0	<.1	<.1	<.001	<.1	<.001	<.001
21				.00	1	0	<.1	<.1	<.001	<.1	<.001	<.001
27 JUN	40	30	8.9							<.1	<.001	<.001
23	40	30	13	.00	1	0	<.1	<.1	<.001			
14 AUG	40	10	5.2	.00	0	0	<.1	<.1	<.001	<.1	<.001	<.001
11	100	3	11	.00	0	0	<.1	<.1	<.001	<.1	<.001	<.001
SEP 01	20	7	4.0	.00	0	0	<.1	<.1	<.001	<.1	<.001	<.001
DATE	DDT. TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN. TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)
0CT 16	TOTAL	AZINON, TOTAL	FLORIN	SULFAN, TOTAL	TOTAL	TOTAL	CHLOR.	CHLOR EPOXIDE TOTAL	TOTAL	THION.	OXY- CHLOR, TOTAL	PARA- THION, TOTAL
0CT 16	TOTAL (UG/L)	AZINON, TOTAL (UG/L)	ELDRIN TOTAL (UG/L)	SULFAN, TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	CHLOR, TOTAL (UG/L)	CHLOR EPOXIDE TOTAL (UG/L)	TOTAL (UG/L)	THION, TOTAL (UG/L)	OXY- CHLOR, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)
0CT 16 NOV 18 DEC	TOTAL (UG/L)	AZINON, TOTAL (UG/L)	ELDRIN TOTAL (UG/L)	SULFAN, TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	CHLOR. TOTAL (UG/L)	CHLOR EPOXIDE TOTAL (UG/L)	TOTAL (UG/L)	THION, TOTAL (UG/L)	OXY- CHLOR, TOTAL (UG/L)	PARA- THION. TOTAL (UG/L)
OCT 16 NOV 18 DEC 16	.000 <.001 <.001	AZINON, TOTAL (UG/L)	ELDRIN TOTAL (UG/L) .017 <.001	SULFAN, TOTAL (UG/L) .000 <.001	.000 <.001	**************************************	CHLOR, TOTAL (UG/L) .000 <.001	CHLOR EPOXIDE TOTAL (UG/L) .000 <.001	.000 .001	THION. TOTAL (UG/L) .00	OXY- CHLOR, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)
OCT 16 NOV 18 DEC 16 JAN 28 FEB	.000 <.001 <.001 <.001	.00 .02 .01	.017 .001 .001 .001 .001	.000 .000 .001 .001	.000 <.001 <.001 <.001	.00 <.01 <.01	CHLOR, TOTAL (UG/L) .000 <.001 <.001	CHLOR EPOXIDE TOTAL (UG/L) .000 <.001 <.001	.000 <.001 <.001	**************************************	OXY- CHLOR. TOTAL (UG/L) .00 <.01	PARA- THION- TOTAL (UG/L) .00 <.01
OCT 16 NOV 18 DEC 16 JAN 28 FEB 17	.000 <.001 <.001 <.001 .002	.00 .02 .01 .02 .01	.017 .001 .001 .001 .001	.000 .001 .001 .001 .001	.000 <.001 <.001 <.001 <.001	.00 <.01 <.01 <.01 <.01 <.01	CHLOR* TOTAL (UG/L) .000 <.001 <.001 <.001 <.001	CHLOR EPOXIDE TOTAL (UG/L) .000 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001	THION, TOTAL (UG/L) .00 <.01 <.01	OXY- CHLOR, TOTAL (UG/L) .00 <.01 <.01	PARA- THION- TOTAL (UG/L) .00 <.01 <.01
OCT 16 NOV 18 DEC 16 JAN 28 FER 17 MAR 23	.000 <.001 <.001 <.001 <.001 .002 <.001	.00 .02 .01 .02 .01 .02 .01	.017 .001 .001 .001 .001 .001 .001	.000 .000 .001 .001 .001 .001	.000 <.001 <.001 <.001 <.001 <.001	.00 <.01 <.01 <.01 <.01 <.01 <.01	CHLOR* TOTAL (UG/L) .000 <.001 <.001 <.001 <.001 <.001 <.001	CHLOR EPOXIDE TOTAL (UG/L) .000 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001	THION, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01	OXY- CHLOR, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01	PARA- THION, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01
OCT 16 NOV 18 DEC 16 JAN 28 FEB 17 MAR 23 APR 21	.000 <.001 <.001 <.001 .002	.00 .02 .01 .02 .01 .02 .01	.017 .001 .001 .001 .001 .001 .001 .001	.000 .000 .001 .001 .001 .001 .001	.000 <.001 <.001 <.001 <.001 <.001 <.001	**************************************	CHLOR* TOTAL (UG/L) .000 <.001 <.001 <.001 <.001 <.001 <.001	CHLOR EPOXIDE TOTAL (UG/L) .000 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	THION, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01	OXY- CHLOR, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01 <.01	PARA- THION, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01 <.01
OCT 16 NOV 18 DEC 16 JAN 28 FEB 17 MAR 23 APR	.000 <.001 <.001 <.001 <.001 .002 <.001	.00 .02 .01 .02 .01 .02 .01	.017 .001 .001 .001 .001 .001 .001	.000 .000 .001 .001 .001 .001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001	**************************************	CHLOR* TOTAL (UG/L) .000 <.001 <.001 <.001 <.001 <.001 <.001 <.001	CHLOR EPOXIDE TOTAL (UG/L) .000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001	THION, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01 <.01 <.01 <.01	OXY- CHLOR, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01 <.01 <.01	PARA-THION, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01 <.01 <.01 <.01
OCT 16 NOV 18 DEC 16 JAN 28 FEB 17 MAR 23 APR 21 MAY 27 JUN	.000 <.001 <.001 <.001 .002 <.001 <.001	.00 .02 .01 .02 .01 .02 .01	.017 .001 .001 .001 .001 .001 .001 .001	.000 .000 .001 .001 .001 .001 .001	.000 <.001 <.001 <.001 <.001 <.001 <.001	**************************************	CHLOR* TOTAL (UG/L) .000 <.001 <.001 <.001 <.001 <.001 <.001	CHLOR EPOXIDE TOTAL (UG/L) .000 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	THION, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01	OXY- CHLOR, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01 <.01 <.01 <.01	PARA-THION, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01
OCT 16 NOV 18 DEC. 16 JAN 28 FER 17 MAR 23 APR 21 MAY 27 JUN 23 JUL 14	.000 <.001 <.001 <.001 .002 <.001 <.001	.00 .02 .01 .02 .01 .01 .01	.017 .001 .001 .001 .001 .001 .001 .001	.000 .000 .001 .001 .001 .001 .001 .001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001	**************************************	CHLOR* TOTAL (UG/L) .000 <.001 <.001 <.001 <.001 <.001 <.001 <.001	CHLOR EPOXIDE TOTAL (UG/L) .000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001	THION, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01 <.01 <.01 <.01	OXY- CHLOR, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01 <.01 <.01	PARA-THION, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01
OCT 16 NOV 18 DEC 16 JAN 28 FER 17 MAR 23 APR 21 MAY 27 JUN 23 JUL	.000 <.001 <.001 <.001 .002 <.001 <.001 .003 <.001	.00 .02 .01 .02 .01 .01 .01 .01	.017 .001 .001 .001 .001 .001 .001 .001	.000 .000 .001 .001 .001 .001 .001 .001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	**************************************	CHLOR* TOTAL (UG/L) .000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	CHLOR EPOXIDE TOTAL (UG/L) .000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	THION, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01 <.01 <.01 <.01 <.01	OXY- CHLOR, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01 <.01 <.01 <.01	PARA- THION, TOTAL (UG/L) .00 <.01 <.01 <.01 <.01 <.01 <.01 <.01

< Actual value is known to be less than the value shown.

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

DATE	MFTHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX. TOTAL (UG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
OCT												
16 NOV	• 0 0	.00	• 0 0	.00	.0	• 0 0	.01	.00	.02	• 0 0	3.43	.000
18	<.01	<.01	<.01	<.01	<.1	<.01	.02	.00	.01	.00	1.82	.000
DFC 16 JAN	<.01	<.01	<.01	<.01	<.1	<.01	.04	• 0 0	.01	.00	8,32	1.14
28 FEB	<.01	<.01	<.01	<.01	<.1	<.01	.02	<.01	.01	<.01	3.82	.260
17	<.01	<.01	<.01	<.01	<.1	<.01	.05	<.01	<.01	<.01	5.80	.160
23 APR	<.01	<.01	<.01	<.01	<.1	<.01	.02	<.01	.01	<.01	2.79	.000
21 MAY	<.01	<.01	<.01	<.01	<.1	<.01	.05	<.01	.01	<.01	6.69	.000
27 JUN	<.01	<.01	<.01	<.01	<.1	<.01	.05	.01	.01	<.10	4.59	.000
23 JUL	<.01	<.01	<.01	<.01	<.1	<.01	.02	<.01	.01	<.01		
14 AUG	<.01	<.01	<.01	<.01	<.1	<.01	.04	<.01	.05	<.01	.460	.000
11 SEP	<.01	<.01	<.01	<.01	<.1	<.01	<.01	<.01	.01	<.01	.930	• 0 0 0
01	<.01	<.01	<.01	<.01	<.1	<.01	<.01	<.01	.02	<.01	5.04	<.010

		SEDI-	SED.
		MENT,	SUSP.
	SEDI-	DIS-	SIEVE
	MENT,	CHARGE .	DIAM.
	SUS-	SUS-	% FINER
	PENDED	PENDED	THAN
DATE	(MG/L)	(T/DAY)	.062 MM
JAN			
28	65	1930	99
FER			
17	239	41000	100
MAR			
23	215	40500	100
APR			
21	134	18900	100
MAY			
27	382	90600	98
JUN			
23	430	144000	91
JUL			
14	350	91500	98
AUG			
11	474	98700	99
SEP			
01	97	10500	99

< Actual value is known to be less than the value shown.

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTORER 1980 TO SEPTEMBER 1981 ONCE-DAILY

					0	NCE-DAILY						
DAY	OCI	NOV	DEC	JAN	FER	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.0	19.0	12.0	7.0	7.0		15.0	21.0	21.0	28.5	31.0	28.0
2	26.0	19.0	12.0	7.0			15.0	21.0	22.0	28.0	31.0	28.0
3	26.0	19.0	12.0	7.0		10.0	15.5	21.0	22.0	28.0	31.0	28.5
4	26.0	19.0	12.0	7.0		10.5	16.5	20.5	23.0	28.0	31.0	28.5
5		19.0	12.0	7.0		10.5	16.5	21.0	23.0	28.0	31.0	28.5
6	23.0	19.0	12.0	7.0		10.5	16.5	21.0	24.0	28.0	30.0	
7	22.0	19.0	12.0	7.0		10.0	18.0	21.5	24.0	28.0	29.5	29.0
8	25.0	18.0	12.0	7.0		10.5	18.0	21.0	24.0	28.0	30.0	29.0
9	22.0	18.0	12.0	8.0		11.0	19.0	55.0	25.0	28.0	30.0	28.5
10	55.0	18.0	12.0	7.0		11.0	19.0	20.5	25.5	28.0	28.5	28.0
11	22.0	18.0	12.0	7.0	7.0	10.5	19.5	21.5	26.0	28.0	28.5	28.0
12	22.0	18.0	12.0	5.5	6.0	10.5	19.5	22.0	26.0	28.0	29.5	28.0
13		18.0	12.0	5.5	6.0	10.5	19.5	21.0	26.0	28.0	29.5	
14		18.0	11.0	7.0	6.0	10.5	19.5	21.0	27.0	29.0	29.5	28.0
15	355	18.0	11.0	7.0	6.0	10.5	19.5	21.0	27.0	29.0	29.5	26.5
16		18.0	11.0	7.0	7.0	10.5	19.5	21.0	28.0	29.0	30.0	27.0
17		18.0	11.0	5.5	6.0	11.5	19.5	55.0	28.0	30.5	30.0	26.5
18		17.0	11.0	5.5	7.0	12.0	20.0	22.0	28.0	30.5	30.5	25.5
19 20		16.0	11.0	6.0	7.0	12.0	20.0	22.0	28.0	30.0	30.5	25.5
20		16.0	11.0	6.0	7.0	12.0	21.5	22.0	28.0	30.5	30.0	25.0
21		15.0	9.5	6.0	7.0	12.0	21.5	22.0	28.0	30.5	30.0	26.0
55		15.0	9.5	5.5	8.0	12.0	21.5	55.0	28.0	30.5	30.0	26.0
23		15.0	9.5	5.5	8.0	12.0	21.0	22.0	27.0	31.0	30.0	26.0
24		15.0 15.0	9.5 7.0	5.5 7.0	8.0	12.0	21.0	22.0	28.0	31.0	30.0 29.5	26.5 25.5
23	444	15.0	7.0	7.0	0.0	13.0	20.5	22.0	20.0	31.0	29.3	23.3
26		15.0	7.0	7.0	9.0	13.0	20.0		28.0	31.0	29.0	25.5
27			7.0	7.5		13.0	21.0		28.0	31.5	29.0	25.5
28		14.0	7.0	7.5		13.0	21.0		28.0	31.5	28.5	26.0
30		14.0	7.0	7.0		13.0 15.0	20.5		28.0	32.0	27.5	25.5 25.5
31			7.0	7.0		15.0	21.0		28.0	32.0	27.5 27.5	23.3
MAX		19.0	12.0	8.0		15.0	21.5	22.0	28.0	32.0	31.0 27.5	29.0 25.0
MIN		14.0	7.0	5.5		10.0	15.0	20.5	21.0	28.0	21.5	23.0
			CHLORIDE.	DISSOLVED			AR OCTOBER		SEPTEMBER	1981		
			3	AMPLING D	EPIH	5.00(1.79 UNC	E-DAIL!				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		4.5		25			China	29	29	31	34	39
1 2	30 30	35 30	60 40	25 30					26	28	26	34
3	30	45	40	30			36	27	25	30	25	59
4	40	35	35	30		36	31	25	30	30	28	44
5	45	30	35	35			32	25	26	31	32	44
	40	35	35	35	2.22	32	33	30	26	34	34	
6	50	50	35	40			31		30	32	36	46
8	45	35	35	40			33	32	26	30	34	49
9	55	40	35				39	37	34	34		44
10	60	30	30			30		30	26	28	46	43
11	70	35	50	1222	44	34		31	26	28		42
12	60	35	35	30	38	30	39	28	30	34		40
13	40	40	40	35	39	34			36	31	46	
14	40	35		35	41	32	33		34	30 35	50 46	44 39
15	35	40	35	40	30				37	33	40	34
16		35	40	35	40		32	27	34	33	44	41
17	25	30	45	35	34				39	37	41	44
18	25	35	40	45	36		34	37	29	32		46
19		35		45	42		34 27	46	30 31	31	46	44
20	30	30		40	36		21	40	31	3.		40
21	25	40	45	45	41	25	30		31	31	49	42
55	25	30		40	60	27			39	31	45	42
23	30		30			27	26		41	31	45	42
24	25	45	25	45	46		40		44	30	46	46
25	30	45			44		17175					3,50
26	25	50	25		46	31	28		38	29	41	44
27	35		40			30	30		34	39	42	46
28	35	45	30			30	26		31 30	30 34	41 36	46
59	45	45				31	30 31		32	36	26	44
30 31	30		30			30				36		
										4.0	E O	59
MAX	70	50	60	45		36 25	40 26		44 25	40 28	50 25	34
MIN	25	30	25	25		2.5	2.0		- 5	20		

MISSISSIPPI RIVER DELTA 107
07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

CHLORIDE. DISSOLVED (MG/L). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

			CHLORIDE.	DISSOLVER			R OCTOBER		SEPTEMBER	1981		
DAY	ост	NOV	DEC	JAN	FER	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				30			32		20	28	34	36
2				30			32		24	28	28	42
3				30		36		26	52	34	26	40
5				35 35		36 34	30 34	26 26	25 29	28 30	31 28	36 37
6						30	34	34	25	28	30	
7 8						33 81	30	35 32	30	28 34	34 28	40
9						80	40	36	19	28	68	42
10				35		36	42	32	24	32	36	44
11				35	58	34	43	29	23	27		44
12					36 37		48	26	30 39	31 30	44	40
14			45	35	38		35		32	32		42
15					40	28		28	36	51	44	43
16					40	28	34		40	30	46	42
17			45	35	34	26	28	31	35	32	35	41
18			40	45	36	28	35	35	37	29	44	
19 20			45 55	45 40	46 38		36 28	41	30 30	30 30	45	40
21			45	45	40	30		42	34	28	32	41
2.2			40	45	71	25	27	32	35	29	44	40
23			35	45	48	27	26	38	35	31	40	44
24 25			30	50 45	51	28 29	46 26	33	38 35	32	44	49
26			35			30	27		36	26	43	42
27						29	28		35	28	40	39
28			40			28	26		31	22	44	40
29 30			30 45				30		28	30 36	36 40	45
31			30							30		
MAX			222	222	1244	81	48	42	40	51	68	49
						26	26	26	19	55	26	36
MIN						25	20	-	17			
									17			
MIN	oct	NOV	5.	AMPLING D	ЕРТН	45.00(FT	.), ONCE	E-DAILY				SEP
DAY	ост	NOV		AMPLING D		45.00(FT	.), ONCE	E-DAILY MAY	JUN	JUL	AUG	SEP
MIN DAY	ост	NOV	5.	AMPLING D JAN 50	ЕРТН	45.00(FT	.), ONCE	MAY 29	JUN	JUL 26	AUG 30	36
DAY	ост	NOV	5.	AMPLING D	ЕРТН	45.00(FT MAR	.), ONCE	E-DAILY MAY	JUN	JUL	AUG	
DAY	ост	NOV	5.	JAN 50 30	ЕРТН	45.00(FT MAR 38 34	.). ONCE APR 30 33 34 30	E-DAILY MAY 29 28 25 34	JUN 24 20 21	JUL 26 28 28 28	AUG 30 25 30 29	36 40 69 50
DAY 1 2 3	ост	NOV	DEC	JAN 50 30	FEB	45.00(FT MAR 38	APR 30 33 34	MAY 29 28 25	JUN 24 20	JUL 26 28 28	AUG 30 25 30	36 40 69
DAY 1 2 3 4 5 6	ост	NOV	DEC	50 30 35 35	FEB	45.00 (FT MAR 38 34 32 31	APR 30 33 34 30 36 34	E-DAILY MAY 29 28 25 34 31 36	JUN 24 20 21	JUL 26 28 28 28 	AUG 30 25 30 29 27	36 40 69 50 42
DAY 1 2 3 4 5	ост	NOV	DEC	50 30 35 35	FEB	45.00(FT MAR 38 34 32 31 31	APR 30 33 34 30 36 34 30	29 28 25 34 31 36	JUN 24 20 21 25 35 28	JUL 26 28 28 28 28	AUG 30 25 30 29 27 28 32	36 40 69 50 42
DAY 1 2 3 4 5 6 7 8	ост	NOV	DEC	50 30 35 35 40	FEB	45.00 (FT MAR 38 34 32 31	APR 30 33 34 30 36 34 30 36	29 28 25 34 31 36 33 33	JUN 24 20 21 25 35 28	JUL 26 28 28 28 28 28 29 26	AUG 30 25 30 29 27 28 32 36	36 40 69 50 42
DAY 1 2 3 4 5	ост	NOV	DEC	50 30 35 35	FEB	45.00(FT MAR 38 34 32 31 31	APR 30 33 34 30 36 34 30	29 28 25 34 31 36	JUN 24 20 21 25 35 28	JUL 26 28 28 28 28	AUG 30 25 30 29 27 28 32	36 40 69 50 42
DAY 1 2 3 4 5 6 7 8 9 10 11	ост	NOV	DEC	50 30 35 35 40 40 35	FEB	45.00(FT MAR 38 34 32 31 31	APR 30 33 34 30 36 34 30 36	29 28 25 34 31 36 33 33 33	JUN 24 20 21 25 35 28	JUL 26 28 28 28 29 26 30	30 25 30 29 27 28 32 36	36 40 69 50 42 41 52 40
DAY 1 2 3 4 5 6 7 8 9 10 11 12	ост	NOV	S. DEC	35 35 40 40 35 35 35	FEB	45.00(FT MAR 38 34 32 31 110 34 32 31	APR 30 33 34 30 36 34 30 36 34 30 43 40	E-DAILY MAY 29 28 25 34 31 36 33 33 35	JUN 24 20 21 25 35 28 22 24 28	JUL 26 28 28 28 29 26 30 30	AUG 30 25 30 29 27 28 32 36 41	36 40 69 50 42 41 52 40 44 40 41
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13	ост	NOV	S. DEC	50 30 35 35 40 40 35 35 35 35	FER	45.00 (FT MAR 38 34 32 31 110 -34 32 31 32	APR 30 33 34 30 36 34 30 36 34 40 44 44	29 28 25 34 31 36 33 33 33 35	JUN 24 20 21 25 35 28 22 24 28 31	26 28 28 28 28 29 26 30 30	30 25 30 29 27 28 32 36 -41	36 40 69 50 42 41 52 40 44
DAY 1 2 3 4 5 6 7 8 9 10 11 12	ост	NOV	S. DEC	35 35 40 40 35 35 35	FEB	45.00(FT MAR 38 34 32 31 110 34 32 31	APR 30 33 34 30 36 34 30 36 34 30 43 40	E-DAILY MAY 29 28 25 34 31 36 33 33 35	JUN 24 20 21 25 35 28 22 24 28	JUL 26 28 28 28 29 26 30 30	AUG 30 25 30 29 27 28 32 36 41	36 40 69 50 42 41 52 40 44 40 41
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	ост	NOV	S. DEC	35 35 36 37 37 38 38 39 39 39 39 39 39 39 39 39 39 39 39 39	FER	45.00 (FT MAR 38 34 32 31 31 110 -34 32 32 32 32 30	APR 30 33 34 30 36 34 30 36 34 40 44 44 34	29 28 25 34 31 36 33 33 35 36 27 29	JUN 24 20 21 25 35 28 22 24 28 31 35 41	26 28 28 28 28 29 26 30 30 29 33 40 36	30 25 30 29 27 28 32 36 41 37 40 72 45	36 40 69 50 42 41 52 40 44 40 41 40 42
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	ост	NOV	5. DEC	35 35 36 40 40 35 35 36 40 40 35 35 40 40 40 40 40	FER	45.00 (FT MAR	APR 30 33 34 30 36 34 30 36 34 30 32 43 40 44 44 34 34 31	E-DAILY MAY 29 28 25 34 31 36 33 33 35 36 27 29 28 27 33	JUN 24 20 21 25 35 28 22 24 28 31 35 41 40 32	26 28 28 28 28 29 26 30 30 30 30 29 33 40 36	AUG 30 25 30 29 27 28 32 36 41	36 40 69 50 42 41 52 40 44 40 41 40 42
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	ост	NOV	DEC	35 35 36 40 40 35 35 35 40 40 35 35 40 40 35 35	FEB	45.00 (FT MAR	APR 30 33 34 30 36 34 30 36 34 43 40 44 44 34 34 31 34	29 28 25 34 31 36 33 33 29 28 27 33 35	JUN 24 20 21 25 35 28 22 24 28 31 35 41 40 32 33	26 28 28 28 29 26 30 30 30 36 29 33 40 36	AUG 30 25 30 27 28 32 36 41 37 40 72 45 43 34 35	36 40 50 42 41 52 40 44 40 41 40 42 44 49 44
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	ост	NOV	5. DEC	35 35 36 40 40 35 35 36 40 40 35 35 40 40 40 40 40	FER	45.00 (FT MAR	APR 30 33 34 30 36 34 30 36 34 30 32 43 40 44 44 34 34 31	E-DAILY MAY 29 28 25 34 31 36 33 33 35 36 27 29 28 27 33	JUN 24 20 21 25 35 28 22 24 28 31 35 41 40 32	26 28 28 28 28 29 26 30 30 30 30 29 33 40 36	AUG 30 25 30 29 27 28 32 36 41 37 40 72 45	36 40 69 50 42 41 52 40 44 40 41 40 42
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	ост	NOV	5 DEC	35 35 35 36 40 40 35 35 35 45 40 40 40 40 40 40 40 40 40 40 40 40 40	FEB	45.00 (FT MAR	APR 30 33 34 30 36 34 30 36 34 30 32 43 40 44 44 34 34 31 34 28	E-DAILY MAY 29 28 25 34 31 36 33 33 29 28 27 33 35 36 40	JUN 24 20 21 25 35 28 22 24 28 31 35 41 40 32 33 32 34	JUL 26 28 28 28 29 26 30 30 29 33 40 36 28 31 33 31 34	AUG 30 25 30 29 27 28 32 36 41 37 40 72 45 43 35	36 40 50 42 41 52 40 44 40 41 40 42 44 49 44 46 48
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	ост	NOV	5. DEC 45 40 45 35 45 45	35 35 35 35 35 35 35 35 35 36 36 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	FER	45.00 (FT MAR 38 34 32 31 110 34 32 31 32 30 28 26	APR 30 33 34 30 36 34 30 32 -43 40 44 44 34 34 31 34	29 28 25 34 31 36 33 33 -3 -3 27 -29 28 27 33 35 36 27 35 36	JUN 24 20 21 25 35 28 22 24 28 31 35 41 40 32 33 32	26 28 28 28 29 26 30 30 30 30 36 29 33 40 36 28 31 33 31	AUG 30 25 30 29 27 28 32 36 -41 41 37 40 72 45	36 40 50 42 41 52 40 44 40 41 40 42 44 49 44 46 48
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	ост	NOV	5. DEC	AMPLING 0 JAN 50 30 35 35 40 40 35 35 35 45 40 40 40 40 45 45	FER	45.00 (FT MAR 38 34 32 31 110 34 32 31 32 30 28 26 28 26	APR 30 33 34 30 36 34 30 36 34 30 32 43 40 44 44 34 28 29 28 26	E-DAILY MAY 29 28 25 34 31 36 33 33 35 36 27 29 28 27 33 35 36 40 41	JUN 24 20 21 25 35 28 22 24 28 31 35 41 40 32 33 32 34 32 34	JUL 26 28 28 28 29 26 30 30 30 29 33 40 36 28 31 33 31 34 27 28	AUG 30 25 30 29 27 28 32 36 41 37 40 72 45 45 45	36 40 69 50 42 41 52 40 44 40 41 40 42 44 46 48 42 40
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	ост	NOV	5. DEC 45 40 45 35 45 55 35 35	AMPLING 0 JAN 50 30 35 35 40 40 35 35 35 40 40 40 40 40 40 40 40 40 40	FER	45.00 (FT MAR 38 34 32 31 110 -34 32 31 32 330 28 26 28 26	APR 30 33 34 30 36 34 30 36 34 30 32 43 40 44 44 34 28 29 28	E-DAILY MAY 29 28 25 34 31 36 33 33 -3- 35 36 27 -29 28 27 33 35 36 40 41	JUN 24 20 21 25 35 28 22 24 28 31 35 41 40 32 33 32 34	26 28 28 28 28 29 26 30 30 30 36 29 33 40 36 28 31 33 31 34	AUG 30 25 30 29 27 28 32 36 41 37 40 72 45 45 45	36 40 69 50 42 41 52 40 44 40 41
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT	NOV	5 DEC	35 35 35 36 40 40 35 35 35 40 40 40 40 40 40 40 40 40 40 40 40 40	FEB	45.00 (FT MAR 38 34 32 31 110 34 32 31 32 32 30 28 26 28 26	APR 30 33 34 30 36 34 30 32 43 40 44 44 34 28 29 28 26 36 30	29 28 27 33 35 36 40 41 36	JUN 24 20 21 25 35 28 22 24 28 31 35 41 40 32 33 32 34 32 35 38 40 36	JUL 26 28 28 28 28 29 26 30 30 30 29 33 40 36 28 31 33 31 34 27 28 34 35 28	AUG 30 25 30 29 27 28 32 36 41 37 40 72 45 45 45 46	36 40 69 50 42 41 52 40 44 40 41 40 42 44 46 48 42 40 44 47
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	OCT	NOV	5. DEC	35 35 35 36 40 40 35 35 35 40 40 40 40 40 40 40 40 40 40 40 40 40	FEB	45.00 (FT MAR 38 34 32 31 110 -34 32 31 32 330 28 -26 28 26 28 30 28	APR 30 33 34 30 36 34 30 32 43 40 44 44 34 28 29 28 26 30 36 30 36 28	29 28 25 34 31 36 33 33 -35 36 27 29 28 27 33 35 36 40 41 36 32 32	JUN 24 20 21 25 35 28 22 24 28 31 35 41 40 32 33 32 34 32 34 32 35 38 40 36 36	26 28 28 28 29 26 30 30 30 36 28 31 33 31 34 27 28 34 35 28 32 26	AUG 30 25 30 29 27 28 32 36 41 37 40 72 45 43 35 45 40 56 46	36 40 50 42 41 52 40 44 40 41 40 42 44 49 44 46 48 42 40 47
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	OCT	NOV	5. DEC	35 35 35 36 40 40 35 35 35 40 40 40 40 40 40 40 40 40 40 40 40 40	FEB	45.00 (FT MAR 38 34 32 31 110 -34 32 31 32 330 28 28 26 28 30 28 30 28 31 31 32 32 330 32 330 32 330 330 34 350 360 37 380 380 380 380 380 380 380 380 380 380	APR 30 33 34 30 36 34 30 36 34 31 34 31 34 28 29 28 26 36 30 36 38 38	29 28 25 34 31 36 33 33 35 36 27 29 28 27 33 35 36 40 41 36 32	JUN 24 20 21 25 35 28 22 24 28 31 35 41 40 32 33 32 34 32 34 32 34 32 34 32 34 32 34 32 34 32 34 32 34 32 34 32 34 36 36 36 36 36 36 36	26 28 28 28 29 26 30 30 30 36 29 33 40 36 28 31 33 31 34 27 28 34 35 28 28	AUG 30 25 30 29 27 28 32 36 41 37 40 72 45 45 40 56 46 52 43 42	36 40 69 50 42 41 52 40 44 40 41 40 42 44 46 48 42 40 44 47 47 45
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	OCT	NOV	5 DEC	AMPLING 0 JAN 50 30 35 35 40 40 35 35 35 45 40 40 40 40 45 45 55 45	FEB	45.00 (FT MAR 38 34 32 31 110 -34 32 31 32 330 28 -26 28 26 28 30 28	APR 30 33 34 30 36 34 30 32 43 40 44 44 34 28 29 28 26 30 36 30 36 28	29 28 25 34 31 36 33 33 -35 36 27 29 28 27 33 35 36 40 41 36 32 32	JUN 24 20 21 25 35 28 22 24 28 31 35 41 40 32 33 32 34 32 34 32 35 38 40 36 36	26 28 28 28 29 26 30 30 30 36 28 31 33 31 34 27 28 34 35 28 32 26	AUG 30 25 30 29 27 28 32 36 41 37 40 72 45 43 35 45 40 56 46	36 40 50 42 41 52 40 44 40 41 40 42 44 49 44 46 48 42 40 47
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	OCT	NOV	5 DEC	AMPLING D JAN 50 30 35 35 40 40 35 35 35 45 40 40 40 45 40 45 45 55 45	FEB	45.00 (FT MAR	APR 30 33 34 30 36 34 30 36 34 30 36 32 43 40 44 44 34 28 29 28 29 28 26 36 30 36 28 32 30	E-DAILY MAY 29 28 25 34 31 36 33 33 29 28 27 33 35 36 40 41 36 32	JUN 24 20 21 25 35 28 22 24 28 31 35 41 40 32 33 32 34 32 34 32 35 38 40 36 36 36 36 36 37 31 39	26 28 28 28 29 26 30 30 30 36 29 33 40 36 28 31 33 31 34 27 28 32 26 28 31 32 31 32 33	AUG 30 25 30 27 28 32 36 41 37 40 72 45 45 45 45 45 45 40 56 46 52 43 42 30	36 40 50 42 41 540 44 40 41 40 42 44 44 46 48 42 42 44 44 47 47 45 40 44 47
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	OCT	NOV	5 DEC	AMPLING 0 JAN 50 30 35 35 40 40 35 35 35 45 40 40 40 40 45 45 55 45	FER	45.00 (FT MAR 38 34 32 31 110 34 32 31 32 32 30 28 28 26 28 30 28 30 28 31 31 31 31 31 31 31 31 31 31 31 31 31	APR 30 33 34 30 36 34 30 36 34 40 44 44 34 28 29 28 26 36 30 36 28 32 30 30	29 28 25 34 31 36 33 33 -35 36 27 -29 28 27 33 35 36 40 41 36 32 32	JUN 24 20 21 25 35 28 22 24 28 31 35 41 40 32 33 32 34 32 35 38 40 36 36 36 36 36 37 31 29 31	JUL 26 28 28 28 28 29 26 30 30 30 29 33 40 36 28 31 33 31 34 27 28 34 32 26 42 30 30	AUG 30 25 30 29 27 28 32 36 -41 41 37 40 72 45 45 40 56 46 52 43 42 30 35	36 40 50 42 41 52 44 44 44 44 44 44 44 47 42 44 47 47 45 40 41

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA (National stream-quality accounting network station)

LOCATION.--Lat 29°41'47", long 91°12'39", on line between lots 1 and 6, St Mary Parish, Hydrologic Unit 08080101, near center of span on downstream side of Southern Pacific Transportation Co. railroad bridge at Morgan City, 0.3 mi (0.5 km) downstream from U.S. Highway 90, 0.3 mi (0.5 km) upstream from Bayou Boeuf, and 1.0 mi (1.6 km) southwest of Morgan City High School.

DRAINAGE AREA. -- Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- April 1973 to September 1975 (discharge measurements only), October 1976 to current year (elevations and discharge measurements only). Gage heights, 1905 to December 1975 and discharge, intermittently, 1927 to December 1975 (collected in same vicinity) are in reports of Corps of Engineers, New Orleans district, and National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS. -- Discharge and elevation affected by tide at all stages.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 6.71 ft (2.045 m) May 4, 1979; minimum, -0.94 ft (-0.286 m) Nov. 29, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 3.84 ft (1.170 m) June 15; minimum not determined.

DISCHARGE MEASUREMENTS MADE DURING YEAR

Date	Discharge (ft ³ /s)	Date	Discharge (ft ³ /s)	Date	Discharge (ft ³ /s)
Oct. 16, 1980	88,400	Mar. 9	146,000	June 23	186,000
Nov. 10	82,500	Mar. 23	112,000	July 14	149,500
Nov. 18	62,200	Apr. 7	91,100	July 28	106,200
Dec. 2	49,400	Apr. 21	88,600	Aug. 4	123,000
Dec. 16	71,200	May 12	65,500	Aug. 11	121,100
Jan. 6, 1981	66,400	May 27	102,000	Sept. 1	88,400
Jan. 28	33,600	June 9	170,000	Sept. 15	108,600
Feb. 15	100,000				

FLEVATION (FEFT NGVD). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 INSTANTANEOUS OBSERVATIONS AT 0800

YAC	OCT	NOV	DEC	VAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.39	.76	.82	.29	1.50		1.41	1.90	3.05	3.74	2,30	2.29
2	1.79	.94	1.03	.13	1.48	1.00	.93	1.63	3.29	3.77	2.27	2.40
3	.88	1.01	.24	.17	2.52	1.10	1.31	2.59	3.20	3.59	2.23	2.10
4	1.34	.79	.80	.36	.38	1.90	2.19	2.90	2.99	3.48	2.29	2.09
5	1.33	.47	.74	.11	1.26	1.90	1.53	3.22	3.08	3.49	2.01	1.55
3	1.00	• • • •	• , ,	• • • •								
6	.98	.77	.93	.69	1.28	1.50	1.79	2.75	3.20	3.41	1.91	1.83
7	1.35	.88	1.17	.30	1.20	1.50	1.98	2.52	2.98	3.27	1.99	1.79
8	1.54	1.20	1.42	.63	1.86	1.60	2.28	2.15	2.89	3.22	2.09	1.93
9	1.52	1.30	1.51	1.21	1.67	1.70	1.56	2.21	2.88	2.94	1.99	1.39
10	1.49	1.04	.86	.84	2.70	1.60	1.11	2.21	3.29	2.78	2.14	2.22
10	****		•00	• • •					3.4.			
11	1.48	1.23	.68	. 25	.70	1.50	1.19	1.30	3.49	2.75	2.35	2.36
12	.84	1.07	1.18	.02	20	1.40	1.20	1.51	3.60	2.93	2.37	2.22
1.3	.89	2.03	1.05	.18	. 40	1.40	1.25	1.85	3.68	2.92	2.44	2.22
14	1.35	2.36	.71	.13	.60	1.40	1.34	2.16	3.74	2.90	2.34	2.31
15	1.44	1.93	.87	.13	.60	1.10	1.19	1.51	3.81	2.74	2.45	2.39
13	1.44	1.9.7	•01	• • •	•00		1.17	1.51	3.01	2.1.4	2.43	2.07
16	1.94	1.30	.97	.11	1.10	1.70	1.31	2.31	3.76	2.86	2.32	1.77
17	5.50	2.75	.33	01	1.20	1.50	1.67	2.79	3.50	2.73	2.26	1.04
18	2.05	.54	.80	1.11	1.41	1.20	1.90	2.81	3.42	2.84	1.95	.88
19	2.32	.43	1.10	1.00	1.32	1.20	2.15	2,90	3.46	2.52	1.76	1.17
20	.39	.34	.52	1.38	1.15	1.10	2.29	1.62	3.53	2.52	1.52	1.65
21	1.11	.14	.76	1.40	1.20	1.10	1.90	2.14	3.59	2.20	1.42	1.70
22	1.09	.68	1.12	1.32	1.45	1.20	2.23	2.02	3.47	1.96	1.67	1.75
23	1.27	1.71	1.51	.98	. 10	.70	1.93	2.06	3.27	1.79	2.07	1.55
24	1.20	1.00	1.67	1.69	.81	1.11	1.20	1.91	3.28	1.79	2.37	1.40
25	.11	1.03	. 25	1.24	.70	. 95	1.65	1.91	3.31	2.49	2.30	1.29
23	• • • •		•		• , •	• • •						
26	1.20	.29	1.31	.89	.60	.78	1.61	2.33	3.29	2.49	2.46	1.51
27	1.87	.69	.87	1.49	.60	.96	1.59	1.96	3.29	2.66	2.84	1.41
28	1.93	.97	.57	1.21	.80	.93	1.63	2.09	3.33	2.50	2.80	1.42
29	.51	.77	.36	.75		1.51	1.71	2.45	3.42	2.48	2.58	1.47
30	.82	.64	.14	1.20		1.85	1.73	2.78	3.51	2.74	2.83	1.53
31	.49		.15	2.04		1.21		2.85		2.50	2.77	
31	• 4 7		•15	2.04		1.001		2.03		2.50	2.11	
MEAN	1.29	1.04	.85	.75	1.11		1.63	2.24	3.35	2.81	2.23	1.75
MAX	2.32	2.75	1.67	2.04	2.70	1.90	2.29	3.22	3.81	3.77	2.84	2.40
MIN	.11	.14	.14	01	20	.70	. 93	1.30	2.88	1.79	1.42	.88
	0.5(5)5,	1.5					1200					

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD .-- Water years 1959-60, 1973 to current year.

PERIOD OF DAILY RECORD . --

SPECIFIC CONDUCTANCE: October 1978 to September 1981 (discontiuned). WATER TEMPERATURES: October 1978 to September 198 WATER TEMPERATURES: October 1976 to current year. CHLORIDE-SURFACE: October 1974 to current year. CHLORIDE-25 FT DEPTH: October 1980 to current year. CHLORIDE-45 FT DEPTH: October 1980 to current year.

COOPERATION.--Chloride samples collected by the Corps of Engineers and analyzed by the Geological Survey. Corps of Engineers station 03780.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum daily, 622 micromhos Jan. 21, 1981; minimum daily, 179 micromhos Feb. 23, 1979.

WATER TEMPERATURES: Maximum daily, 32.0°C July 28, 1977; minimum daily, 4.0°C Jan. 2-9, 10, 11, 1978. CHLORIDE-SURFACE: Maximum daily, 160 mg/L June 14, 15, 16, 1977; minimum daily, 11 mg/L Jan. 6, May 11, 1976. CHLORIDE-25 FT DEPTH: Maximum daily, 70 mg/L Feb. 8, 1981; minimum daily, 22 mg/L June 2, 1981. CHLORIDE-45 FT DEPTH: Maximum daily, 70 mg/L Feb. 8, 25, 1981; minimum daily, 24 mg/L May 12, 15, 31, June 2, July 28, 1981.

EXTREMES FOR CURRENT YEAR .--

SPECIFIC CONDUCTANCE: Maximum daily, 622 micromhos Jan. 21; minimum daily, 306 micromhos June 11. WATER TEMPERATURES: Maximum daily, 30.5°C July 28, 29; minimum daily, 7.0°C several days in January and CHLORIDE-SURFACE: Maximum daily, 75 mg/L Oct. 29; minimum daily, 20 mg/L Dec. 31.

DATE	TIME	STREAM- FLOW. INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS, PER 100 ML)
ост												
16 NOV	1400	88400	414	7.4	23.0	5	10	<1.0	8.1	35	.8	K75
18	1300	62200	496	7.6	15.0	10	40	<1.0	8.6	26	.5	
DEC 16	1500	71200	492	7.3	13.0	5	25	<1.0	10.2	25	1.4	
JAN			247	-								1,55
28	1030	33600	576	7.5	7.5	5	4.7	<1.0	11.1	17	5.0	K10
FEB 17	1400	100000	443	7.0	7.0	20	45	<1.0		36	1.7	140
23 APR	1400	112000	348	6.9	12.5	10	66	<1.0	9.8	36	.8	K140
21 MAY	1300	88600	399	7.2	19.0	10	15	<1.0	10.1	13	1.8	K35
27 JUN	1400	102000	372	7.2	22.0	15	100	<1.0	8.2	29	2.9	156
23 JUL	1500	186000	362	6.9	28.5	15	70	<1.0	6.4	31	• 5	
14 AUG	1245	150000	342	7.6	30.0	10	380	<1.0	5.9	49	1.6	
11 SEP	1200	121000	347	7.9	29.0	15	100	<1.0	6.5	57	• 0	95
01	1400	88400	459	7.9	28.5	5	48	<1.0		65	2.3	

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 16			140	33	37	12	28	3.5	109	51	29	.2
NOV 18	22	680	160	41	42	14	33	3.9	122	67	38	
DEC 16		K60	150	55	40	13	36	3.4	98	70	43	
JAN 28	< 5	<5	190	48	50	16	41	3.1	143	64	54	•2
FEB 17		130	140	44	38	12	29	2.9	100	61	38	
MAR	-											
23 APR		K49	120	35	32	9.5	20	2.9	84	46	25	•1
21 MAY	K5	K5	140	51	36	11	23	2.9	84	64	27	
27 JUN		2000	130	49	35	11	24	2.8	84	59	28	.2
23 JUL		1400	120	55	36	8.4	26	2.8	69	49	40	
14		2000	120	44	32	9.3	22	3.3	77	48	31	.1
11 SEP		6800	120	29	33	9.6	20	3.8	93	43	24	
01		440	170	46	44	14	28	3.7	120	51	32	•1
DATE	SILICA. DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN: AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN:AM- MONIA + ORGANIC DIS. (MG/L AS N)
ост			22.				2.5		2.0			
16 NOV	7.4	241	234	70	1.2	1.0	.26	.00	.84	.64	1.1	.64
18 DEC				86	.83							2.8
16 JAN				40	•72							.88
28 FEB	6.7	324	322	12	1.2	1.3	.10	.14	1.3	.86	1.4	1.0
17 MAR				84	.85					•		.31
23	6.0	198	193	107	1.6	1.5	••	.15		1.1	1.5	1.2
21 MAY				29	1.1		144					.96
27 JUN	5.3	215	217	136	3.1	1.6	.09	.11	1.1	.64	1.2	.75
23 JUL				190	.86							1.0
14	7.9	201	201	310	1.4	1.4	.12	.13	1.2	.68	1.3	.81
AUG 11 SEP				242	1.1							1.2
01	7.7	272	255	74	1.6	1.6		.53		.19	.93	.72

< Actual value is known to be less than the value shown. K Results based on colony count outside the acceptable range (non-ideal count).

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	PHOS- PHORUS. TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM. TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM. DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
OCT 16	.77	.26	2	2	100	80		10	0	<1	0	0
NOV 18	.20		2	1			0	<1	i	<1	0	
DEC 16	.11		1	1			0	<1	1	1	0	
JAN 28	.46	.07					0	<1				
FEB 17	.08		2	1		22	0	<1	1	<1	10	
MAR 23	.20	.06	1	0	100	60	0	<1	0	<1	20	10
21 MAY	.11		1	1			0	<1	0	<1	10	
27 JUN	.38	.14	6	0	100	100	0	0	1	1	10	10
23 JUL	.28		2	2			0	<1	0	<1	30	
14 AUG	.31	.06	3	1	100	100	0	0	1	1	20	0
11 SEP	.30		4	2			0	<1	0	<1	10	
01	.18	.11					0	<1				
DATE	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT. DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD. DIS- SOLVED (UG/L AS PB)	MANGA- NESE; TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE + DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
ост	MIUM, HEXA- VALENT, DIS. (UG/L	TOTAL RECOV- ERABLE (UG/L	DIS- SOLVED (UG/L	TOTAL RECOV- ERABLE (UG/L	DIS- SOLVED (UG/L	TOTAL RECOV- ERABLE (UG/L	DIS- SOLVED (UG/L	TOTAL RECOV- ERABLE (UG/L	DIS- SOLVED (UG/L	NESE, TOTAL RECOV- ERABLE (UG/L	NESE. DIS- SOLVED (UG/L	TOTAL RECOV- ERABLE (UG/L AS HG)
	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CO)	DIS- SOLVED (UG/L AS CO)	TOTAL RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	TOTAL RECOV- ERABLE (UG/L AS FE)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	DIS- SOLVED (UG/L AS PB)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	NESE + DIS- SOLVED (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L
0CT 16	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CO)	DIS- SOLVED (UG/L AS CO)	TOTAL RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	TOTAL RECOV- ERABLE (UG/L AS FE)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	DIS- SOLVED (UG/L AS PB)	NESE+ TOTAL RECOV- ERABLE (UG/L AS MN)	NESE + DIS- SOLVED (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L AS HG)
OCT 16 NOV 18 DEC 16 JAN 28	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CO)	DIS- SOLVED (UG/L AS CO)	TOTAL RECOV- ERABLE (UG/L AS CU) 14	DIS- SOLVED (UG/L AS CU)	TOTAL RECOV- ERABLE (UG/L AS FE)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	DIS- SOLVED (UG/L AS PB)	NESE+ TOTAL RECOV- ERABLE (UG/L AS MN)	NESE+ DIS- SOLVED (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L AS HG) .0
OCT 16 NOV 18 DEC 16 JAN 28 FEB 17	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CO)	DIS- SOLVED (UG/L AS CO)	TOTAL RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	TOTAL RECOV- ERABLE (UG/L AS FE)	DIS- SOLVED (UG/L AS FE) 20 20	TOTAL RECOV- ERABLE (UG/L AS PB)	DIS- SOLVED (UG/L AS PB)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	NESE+ DIS- SOLVED (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L AS HG) .0 .1
OCT 16 NOV 18 DEC 16 JAN 28 FEB 17 MAR 23	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CO)	DIS- SOLVED (UG/L AS CO)	TOTAL RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	TOTAL RECOV- ERABLE (UG/L AS FE) 1700	DIS- SOLVED (UG/L AS FE) 20 20 20	TOTAL RECOV- ERABLE (UG/L AS PB) 2 8 5	DIS- SOLVED (UG/L AS PB)	NESE, TOTAL RECOV- FRABLE (UG/L AS MN)	NESE+ DIS- SOLVED (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L AS HG) .0 .1 .1
OCT 16 NOV 18 DEC 16 JAN 28 FEB 17 MAR 23 APR 21	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- REABLE (UG/L AS CO) 1	DIS- SOLVED (UG/L AS CO)	TOTAL RECOV- ERABLE (UG/L AS CU) 14 16 12 12	DIS- SOLVED (UG/L AS CU) 8 8	TOTAL RECOV- ERABLE (UG/L AS FE)	DIS- SOLVED (UG/L AS FE) 20 20 20 30	TOTAL RECOV- ERABLE (UG/L AS PB) 2 8 5 6	DIS- SOLVED (UG/L AS PB)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	NESE+ DIS- SOLVED (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L AS HG) .0 .1 .1
OCT 16 NOV 18 DEC. 16 JAN 28 FEB 17 MAR 23 APR 21 MAY 27	MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CO) 1 1	DIS- SOLVED (UG/L AS CO)	TOTAL RECOV- ERABLE (UG/L AS CU) 14 16 12 12 5	DIS- SOLVED (UG/L AS CU) 8 8 4	TOTAL RECOV- RABLE (UG/L AS FE) 1700 3100	DIS- SOLVED (UG/L AS FE) 20 20 20 30 50	TOTAL RECOV- ERABLE (UG/L AS PB) 2 8 5 6	DIS- SOLVED (UG/L AS PB) 0 0 3 0	NESE, TOTAL RECOV- FRABLE (UG/L AS MN) 80 	NESE, DIS- SOLVED (UG/L AS MN) 3 10	TOTAL RECOV- ERABLE (UG/L AS HG) .0 .1 .1 .12 .3
OCT 16 NOV 18 DEC 16 JAN 28 FEB 17 MAR 23 APR 21 MAY 27 JUN 23	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CO) 1 1	DIS- SOLVED (UG/L AS CO) <3	TOTAL RECOV- ERABLE (UG/L AS CU) 14 16 12 12 5 12	DIS- SOLVED (UG/L AS CU) 8 8 6 4 6	TOTAL RECOV- REABLE (UG/L AS FE) 1700 3100	DIS- SOLVED (UG/L AS FE) 20 20 20 30 50	TOTAL RECOV- ERABLE (UG/L AS PB) 2 8 5 6 4	DIS- SOLVED (UG/L AS PB) 0 0 3 0 1	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) 80 160	NESE, DIS- SOLVED (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L AS HG) .0 .1 .1 .2 .3
OCT 16 NOV 18 DEC. 16 JAN 28 FEB 17 MAR 23 APR 21 MAY 27 JUN 23 JUN 14	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0 0 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CO) 1 1	DIS- SOLVED (UG/L AS CO) <3 <3 	TOTAL RECOV- ERABLE (UG/L AS CU) 14 16 12 12 5 12 15	DIS- SOLVED (UG/L AS CU) 8 8 6 4 6 5	1707AL RECOV- REABLE (UG/L AS FE) 1700 3100 5000	DIS- SOLVED (UG/L AS FE) 20 20 20 30 50 10	TOTAL RECOV- ERABLE (UG/L AS PB) 2 8 5 6 4 6 17	DIS- SOLVED (UG/L AS PB) 0 0 3 0 1 3 3	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) 80 160	NESE, DIS- SOLVED (UG/L AS MN) 3 10	TOTAL RECOV-ERABLE (UG/L AS HG) .0 .1 .1 .12 .3 .1
OCT 16 NOV 18 DEC. 16 JAN 28 FEB 17 MAR 23 APR 21 MAY 27 JUN 23 JUL	MIUM, HEXA- VALENT, DIS. (UG/L AS CR) 0 0 0 0 0 0 0	TOTAL RECOV- ERABLE (UG/L AS CO) 1 1 2	DIS- SOLVED (UG/L AS CO) <3 <3 1	TOTAL RECOVERAGE AS CU) 14 16 12 12 5 12 15	DIS- SOLVED (UG/L AS CU) 8 8 6 4 6 5	1707aL RECOV- ERABLE (UG/L AS FE) 1700 3100 5000	DIS- SOLVED (UG/L AS FE) 20 20 20 30 50 10	TOTAL RECOV- ERABLE (UG/L AS PB) 2 8 5 6 4 6 17 23	DIS- SOLVED (UG/L AS PB) 0 0 3 0 1 3 3	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) 80 160 	NESE DIS- SOLVED (UG/L AS MN) 3 10 0	TOTAL RECOV-ERABLE (UG/L AS HG) .0 .1 .12 .3 .1 .5

< Actual value is known to be less than the value shown.

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM: TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	VANA- DIUM: DIS- SOLVED (UG/L AS V)	ZINC. TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON. ORGANIC DIS- SOLVED (MG/L AS C)
						A					,,=	
16	.2	5	0	0	0	1	0	.0	40	20		4.9
NOV 18	.0	9	3	0	0			6.0	30	10	12	
DEC 16	.0	2	3	0	0			1.0	40	20	7.3	
JAN 28				45				1.0			9.3	
FEB		,		0	0			2.0	30	8	12	
17 MAR	.1	6	1									
23 APR	.1	8	1	0	0	2	1	1.0	70	10	23	8.7
21	. 0	2	5	0	1			1.0	20	5	4.6	
27	. 4	8	3	0	0	0	0	1.0	50	30		15
JUN 23	.1	11	3	0	0			.0	80	60	8.5	
JUL 14	.3	8	S	0	0	0	0	2.0	50	10		5.3
AUG 11	.1	13	2	1	0			1.0	50	11	11	
SEP 01								2.0			4.6	
	CARBON. ORGANIC SUS- PENDED TOTAL (MG/L	CYANIDE TOTAL (MG/L	PHENOLS	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC	PCB. TOTAL	NAPH- THA- LENES, POLY- CHLOR. TOTAL	ALDRIN. TOTAL	CHLOR- DANE, TOTAL	DDD.	DDE,	DDT,	DI- AZINON, TOTAL
DATE	ORGANIC SUS- PENDED TOTAL	TOTAL	PHENOLS (UG/L)	GREASE, TOTAL RECOV. GRAVI-		THA- LENES, POLY- CHLOR.		DANE .				AZINON,
OCT 16	ORGANIC SUS- PENDED TOTAL (MG/L	TOTAL (MG/L		GREASE, TOTAL RECOV. GRAVI- METRIC	TOTAL	THA- LENES, POLY- CHLOR. TOTAL	TOTAL	DANE , TOTAL	TOTAL	TOTAL	TOTAL	AZINON, TOTAL
ост	ORGANIC SUS- PENDED TOTAL (MG/L AS C)	TOTAL (MG/L AS CN)	(UG/L)	GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	TOTAL (UG/L)	THA- LENES, POLY- CHLOR. TOTAL (UG/L)	TOTAL (UG/L)	DANE, TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	AZINON, TOTAL (UG/L)
OCT 16 NOV 18 DEC	ORGANIC SUS- PENDED TOTAL (MG/L AS C)	TOTAL (MG/L AS CN)	(UG/L)	GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	TOTAL (UG/L)	THA- LENES, POLY- CHLOR. TOTAL (UG/L)	TOTAL (UG/L)	DANE, TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)	AZINON, TOTAL (UG/L)
OCT 16 NOV 18 DEC 16	ORGANIC SUS- PENDED TOTAL (MG/L AS C)	TOTAL (MG/L AS CN) .00	(UG/L) 0 2	GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	.0 (UG/L) .0 <.1 <.1	THA- LENES, POLY- CHLOR. TOTAL (UG/L)	.000 <.001 <.001	DANE+ TOTAL (UG/L) •0 <•1 <•1	.000 <.001	.000 <.001	.000 <.001	.01 .02
OCT 16 NOV 18 DEC 16 JAN 28 FEB	ORGANIC SUS- PENDED TOTAL (MG/L AS C)	.00 .00	(UG/L) 0 2 0	GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	**************************************	THA- LENES, POLY- CHLOR. TOTAL (UG/L) .0 <.1 <.1	.000 <.001 <.001 <.001	DANE, TOTAL (UG/L) .0 <.1 <.1	.000 <.001 <.001 <.001	.000 <.001 <.001 <.001	.000 <.001 <.001 <.001	.01 .02 .01
OCT 16 NOV 18 DEC 16 JAN 28 FEB 17	ORGANIC SUS- PENDED TOTAL (MG/L AS C)	.00 .00 .00	(UG/L) 0 2 0 1	GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L) 0 0	TOTAL (UG/L) •0 <.1 <.1 <.1 <.1	THA- LENES, POLY- CHLOR. TOTAL (UG/L) .0 <.1 <.1 <.1	.000 <.001 <.001 <.001 <.001 <.001	DANE, TOTAL (UG/L) .0 <.1 <.1 <.1	.000 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001	.01 .02 .01 .03
OCT 16 NOV 18 DEC 16 JAN 28 FEB 17 MAR 23	ORGANIC SUS- PENDED TOTAL (MG/L AS C)	.00 .00 .00 .00	(UG/L) 0 2 0 1 1 6	GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L) 0 0	**************************************	THA- LENES, POLY- CHLOR. TOTAL (UG/L) .0 <.1 <.1 <.1 <.1	.000 <.001 <.001 <.001 <.001 <.001	DANE, TOTAL (UG/L) .0 <.1 <.1 <.1 <.1 <.1	.000 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001	.01 .02 .01 .03 <.01
OCT 16 NOV 18 DEC 16 JAN 28 FEB 17 MAR 23	ORGANIC SUS- PENDED TOTAL (MG/L AS C)	.00 .00 .00 .00	(UG/L) 0 2 0 1	GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L) 0 0	TOTAL (UG/L) •0 <.1 <.1 <.1 <.1	THA- LENES, POLY- CHLOR. TOTAL (UG/L) .0 <.1 <.1 <.1	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	DANE, TOTAL (UG/L) .0 <.1 <.1 <.1 <.1 <.1	TOTAL (UG/L) .000 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.01 .02 .01 .03 <.01 .01
OCT 16 NOV 18 DEC 16 JAN 28 FEB 17 MAR 23 APR	ORGANIC SUS- PENDED TOTAL (MG/L AS C)	.00 .00 .00 .00	(UG/L) 0 2 0 1 1 6	GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L) 0 0	**************************************	THA- LENES, POLY- CHLOR. TOTAL (UG/L) .0 <.1 <.1 <.1 <.1	.000 <.001 <.001 <.001 <.001 <.001	DANE, TOTAL (UG/L) .0 <.1 <.1 <.1 <.1 <.1	.000 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.01 .02 .01 .03 <.01
OCT 16 NOV 18 DEC 16 JAN 28 FEB 17 MAR 23 APR 21 MAY 27 JUN 23	ORGANIC SUS- PENDED TOTAL (MG/L AS C)	.00 .00 .00 .00	(UG/L) 0 2 0 1 1 6	GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L) 0 0	TOTAL (UG/L) .0 <.1 <.1 <.1 <.1 <.1 <.1	THA- LENES, POLY- CHLOR. TOTAL (UG/L) .0 <.1 <.1 <.1 <.1 <.1 <.1 <.1	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	DANE, TOTAL (UG/L) .0 <.1 <.1 <.1 <.1 <.1	TOTAL (UG/L) .000 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.01 .02 .01 .03 <.01 .01
OCT 16 NOV 18 DEC 16 JAN 28 FEB 17 MAR 23 APR 21 MAY 27 JUN 23 JUL 14	ORGANIC SUS- PENDED TOTAL (MG/L AS C) .8 1.2	.00 .00 .00 .00 .00	(UG/L) 0 2 0 1 1 6 0	GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L) 0 0 0 0	TOTAL (UG/L) .0 <.1 <.1 <.1 <.1 <.1 <.1 <.1	THA- LENES, POLY- CHLOR. TOTAL (UG/L) .0 <.1 <.1 <.1 <.1 <.1 <.1 <.1	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	DANE, TOTAL (UG/L) .0 <.1 <.1 <.1 <.1 <.1 <.1 <.1	TOTAL (UG/L) .000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.01 .02 .01 .03 <.01 .01
OCT 16 NOV 18 DEC 16 JAN 28 FEB 17 MAR 23 APR 21 MAY 27 JUN 23 JUL 14 AUG 11	ORGANIC SUS- PENDED TOTAL (MG/L AS C) .8	.00 .00 .00 .00 .00 .00	(UG/L) 0 2 0 1 6 0 1	GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L) 0 0 0 0 0	TOTAL (UG/L) •0 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <	THA- LENES, POLY- CHLOR. TOTAL (UG/L) .0 <.1 <.1 <.1 <.1 <.1 <.1 <.1	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	DANE, TOTAL (UG/L) .0 <.1 <.1 <.1 <.1 <.1 <.1 <.1	TOTAL (UG/L) .000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.01 .02 .01 .03 <.01 .01 .01
OCT 16 NOV 18 DEC 16 JAN 28 FEB 17 MAR 23 APR 21 MAY 27 JUN 23 JUL 14 AUG	ORGANIC SUS- PENDED TOTAL (MG/L AS C) .8 1.2 5.71	.00 .00 .00 .00 .00 .00	(UG/L) 0 2 0 1 1 6 0 1	GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L) 0 0 0 0 0	TOTAL (UG/L) .0 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	THA- LENES, POLY- CHLOR. TOTAL (UG/L) .0 <.1 <.1 <.1 <.1 <.1 <.1 <.1	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	DANE, TOTAL (UG/L) .0 <.1 <.1 <.1 <.1 <.1 <.1 <.1	TOTAL (UG/L) .000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.000 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001 <.001	.01 .02 .01 .03 <.01 .01 .01

< Actual value is known to be less than the value shown.

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION. TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)
OCT	.003	0.00	.000	.00	.000	.000	.000	.00	.00	.00	•00	.00
16	.003	.000	.000	•00	.000	.000	.000	.00	• • • •	.00	•00	•00
18	.001	<.001	<.001	<.01	<.001	<.001	<.001	<.01	<.01	<.01	<.01	<.01
DEC 16	<.001	<.001	<.001	<.01	<.001	<.001	<.001	<.01	<.01	<.01	<.01	<.01
JAN 28	<.001	<.001	<.001	<.01	<.001	<.001	<.001	<.01	<.01	<.01	<.01	<.01
FEB				4.5								
17	<.001	<.001	<.001	<.01	<.001	<.001	<.001	<.01	<.01	<.01	<.01	<.01
MAR 23	<.001	<.001	<.001	<.01	<.001	<.001	<.001	<.01	<.01	<.01	<.01	<.01
APR 21	<.001	<.001	<.001	<.01	<.001	<.001	<.001	<.01	<.01	<.01	<.01	<.01
MAY 27	.005	<.001	<.001	<.01	<.001	<.001	<.001	<.01	<.01	<.01	<.01	<.01
JUN 23	<.001	<.001	<.001	<.01	<.001	<.001	<.001	<.01	<.01	<.01	<.01	<.01
JUL 14	<.001	<.001	<.001	<.01	<.001	<.001	<.001	.08	<.01	<.01	<.01	<.01
AUG												
11	.003	<.001	<.001	<.01	< .001	< .001	<.001	<.01	<.01	<.01	<.01	<.01
SEP 01	.003	<.001	<.001	<.01	<.001	<.001	<.001	<.01	<.01	<.01	<.01	<.01

DATE	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
OCT							
16 NOV	.00	.00	.0	.00	.01	.00	.02
18 DEC	<.01	<.01	<.1	<.01	.05	.00	.01
16 JAN	<.01	<.01	<.1	<.01	.07	.00	.01
28 FEB	<.01	<.01	<.1	<.01	.02	<.01	<.01
17 MAR	<.01	<.01	<.1	<.01	.04	<.01	<.01
23 APR	<.01	<.01	<.1	<.01	.03	<.01	<.01
21	<.01	<,01	<.1	<.01	.05	<.01	<.01
27 JUN	<.01	<.01	<.1	<.01	.05	<.01	.01
23 JUL	<.01	<.01	<.1	<.01	.21	<.01	<.01
14 AUG	<.01	<.01	<.1	<.01	.08	<.01	.04
11 SEP	<.01	<.01	<.1	<.01	<.01	<.01	.01
01	<.01	<.01	<.1	<.01	.01	<.01	.01

< Actual value is known to be less than the value shown.

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

						10000	0.00
		PHYTO-	CHLOR-A	CHLOR-B		SEDI-	SED. SUSP.
		PLANK-	PLANK-	PLANK-	SEDI-	DIS-	SIEVE
		TON.	TON	TON	MENT,	CHARGE .	DIAM.
	SILVEX,	TOTAL	CHROMO	CHROMO	SUS-	SUS-	% FINER
	TOTAL	(CELLS	FLUOROM	FLUOROM	PENDED	PENDED	THAN
DATE	(UG/L)	PER ML)	(UG/L)	(UG/L)	(MG/L)	(T/DAY)	.062 MM
OCT							
16 NOV	•00	1500	4.36	.000			
18	.00		.980	.000			
DEC 16	.00		7.66	.850	148	28500	99
JAN 28	<.01	- 22	4.47	.410	90	8170	100
FER							100
17 MAR	<.01		8.26	.130	209	56400	99
23 APR	<.01	2000	.000	.000	172	52000	99
21	<.01		8.25	.000	105	25100	100
MAY 27	<.01	2500	.830	.000	334	92000	100
23	<.01		2.22	.000	457	230000	92
JUL							
14 AUG	<.01	2100	.790	.000	376	152000	98
Il SEP	<.01		1.85	.000	471	154000	100
01	<.01	**	3.48	<.010	159	38000	99
			SPE- CIFIC				
		SAMP-	CON-			OXYGEN.	
		LING	DUCT-	PH	TEMPER-		
a charles	TIME	DEPTH	ANCE		ATURE	SOLVED	
DATE		(FT)	(UMHOS)	(UNITS)	(DEG C)	(MG/L)	
MAR							
23		2.0			12.5		
23		20	345		12.5		
23	1410	45	344	6.9	12.0	9.7	
27	1400	2.0	372	7 3	22.0	0.0	
27		40	372		22.0		
21	1405	40	312	7.3	22.0	8.2	

< Actual value is known to be less than the value shown.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	SP	ECIFIC CO	NDUCTANCE	(MICROMH		25 DEG. C NCE-DAILY		YEAR OCTO	BER 1980	TO SEPTEM	MBER 1981	
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	443		450		554		390	412	324	329	399	464
ż	459	448	430	395	558		396	405	317	343	399	466
3	472	437	439	427	611		390	397	321	334	429	518
4	513	480	410	427	581		360	393	318	354	409	523
5		430		406	580			387	329	342	384	493
6	510	452		444	564		379	391	323	349	388	512
7	495	473	421	432	604		374	398	323	336	393	504
8	489 500	514 464	410	441 455	593 563		374	395 370	333 314	335	360	492 492
10	525	486	461	435	509		382 403	372	327	335 328	368 357	489
								227	***		2.2	
11 12	501	466 459	468 452	474 522	504 520		407	377 387	306 315	332 332	346 348	488
13	454	465	484	453	495			394	349	343	357	565
14	423	466	498	468			401	388	367	342	372	494
15	422	537	476	487	466		389	387	364	359	378	491
16	419	495	469	509	476		377	407	372	365	369	499
17	438	500	496	521	433		364	416	362	385	364	511
18	465	491	491	520			384	434	345	366	383	504
19 20	451 489	484	494 450	515 526	427 433		397 401	454 426	334 349	372 362	393 416	
21 22	483 470	522	450 439	622 578	440		404 398	428	349 356	352	429	483
23	439	520	434	538	452		392		365	343 326	434 458	481 490
24	434	502	423	539		349	393	380	362	329	487	495
25		510		540		353		376	344	334	459	504
26	429	541	413	541	436	356	409	388	343	346	483	
27	425	480	427	550	419	361	419	378	342	359	442	
28	469	483	404			365	428	379	330	377	443	504
29	500	493	389	566		367	428	385	330	382	444	516
30 31	478 482	464	423 417	580 591		371 380	425	359 332	340	386	444	517
MAX		F.,										
MIN	525 419	541 430	498 389	622 395	611 419		428 360	454 332	372 306	386 326	487 346	565 464
		Ţ	EMPERATUR	E. WATER			AR OCTOBE	H 1980 TO	SEPTEMBE	R 1981		
					01	CE-DAILY						
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DAY 1	0CT	NOV	DEC 12.0	JAN							AUG 30.0	
1 2	27.0 26.5		12.0 12.0	8.5	FEB 9.0 8.5	MAR	16.0 16.0	21.0	22.0	JUL 27.5 27.0	30.0 30.0	27.5 25.5
1 2 3	27.0 26.5 26.0	19.0	12.0 12.0 12.0	8.5 8.5	9.0 8.5 7.5	MAR	16.0 16.0 16.5	21.0 21.5 21.5	22.0 22.0 22.5	27.5 27.0 26.5	30.0 30.0 29.5	27.5 25.5 28.0
1 2 3 4	27.0 26.5	19.0	12.0 12.0	8.5	9.0 8.5 7.5 7.5	MAR	16.0 16.0 16.5 18.0	21.0 21.5 21.5 20.0	22.0 22.0 22.5 22.0	27.5 27.0 26.5 26.0	30.0 30.0 29.5 29.5	27.5 25.5 28.0 25.5
1 2 3 4 5	27.0 26.5 26.0 25.0	19.0	12.0 12.0 12.0 12.0	8.5 8.5 9.0	9.0 8.5 7.5 7.5 8.0	MAR	16.0 16.0 16.5 18.0	21.0 21.5 21.5 20.0 21.0	22.0 22.0 22.5 22.0 23.0	27.5 27.0 26.5 26.0 26.0	30.0 30.0 29.5 29.5 29.5	27.5 25.5 28.0 25.5 27.5
1 2 3 4 5	27.0 26.5 26.0 25.0	19.0 18.0	12.0 12.0 12.0 12.0	8.5 8.5 9.0	9.0 8.5 7.5 7.5 8.0	MAR	16.0 16.0 16.5 18.0	21.0 21.5 21.5 20.0 21.0	22.0 22.0 22.5 22.0 23.0	27.5 27.0 26.5 26.0 26.0	30.0 30.0 29.5 29.5 29.5	27.5 25.5 28.0 25.5 27.5
1 2 3 4 5	27.0 26.5 26.0 25.0 23.0 23.0	19.0 18.0 17.0 18.0	12.0 12.0 12.0 12.0	8.5 8.5 9.0 8.5 8.0	9.0 8.5 7.5 7.5 8.0	MAR	16.0 16.0 16.5 18.0	21.0 21.5 21.5 20.0 21.0	22.0 22.0 22.5 22.0 23.0 24.0 25.0	27.5 27.0 26.5 26.0 26.0	30.0 30.0 29.5 29.5 29.5 29.5	27.5 25.5 28.0 25.5 27.5
1 2 3 4 5	27.0 26.5 26.0 25.0	19.0 18.0	12.0 12.0 12.0 12.0	8.5 8.5 9.0	9.0 8.5 7.5 7.5 8.0	MAR	16.0 16.0 16.5 18.0 	21.0 21.5 21.5 20.0 21.0 21.0 21.0	22.0 22.0 22.5 22.0 23.0 24.0 25.0 24.5	27.5 27.0 26.5 26.0 26.0 27.0 27.0	30.0 30.0 29.5 29.5 29.5	27.5 25.5 28.0 25.5 27.5 26.0 27.5 28.0
1 2 3 4 5	27.0 26.5 26.0 25.0 23.0 23.0 23.0	19.0 18.0 17.0 18.0 17.0	12.0 12.0 12.0 12.0 12.0	8.5 8.5 9.0 8.5 8.0 8.0	9.0 8.5 7.5 7.5 8.0	MAR	16.0 16.0 16.5 18.0	21.0 21.5 21.5 20.0 21.0	22.0 22.0 22.5 22.0 23.0 24.0 25.0	27.5 27.0 26.5 26.0 26.0	30.0 30.0 29.5 29.5 29.5 29.5	27.5 25.5 28.0 25.5 27.5
1 2 3 4 5 6 7 8	27.0 26.5 26.0 25.0 23.0 23.0 22.5 22.5	19.0 18.0 17.0 18.0	12.0 12.0 12.0 12.0 13.5 13.5 13.0	8.5 8.5 9.0 8.5 8.0 8.0	9.0 8.5 7.5 7.5 8.0	MAR	16.0 16.0 16.5 18.0 	21.0 21.5 21.5 20.0 21.0 21.0 21.0 21.0	22.0 22.0 22.5 22.0 23.0 24.0 25.0 24.5 25.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5	30.0 30.0 29.5 29.5 29.5 29.5 29.5 29.0	27.5 25.5 28.0 25.5 27.5 26.0 27.5 28.0 27.5 27.5
1 2 3 4 5 6 7 8 9 10	27.0 26.5 26.0 25.0 23.0 23.0 23.5 22.5 22.5	19.0 18.0 17.0 18.0 17.0 17.5	12.0 12.0 12.0 12.0 12.0 13.5 13.0 13.5 13.0	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5	MAR	16.0 16.5 18.0 18.0 19.0 19.0 19.5	21.0 21.5 21.5 20.0 21.0 21.0 21.0 21.0 21.0 21.0	22.0 22.5 22.5 22.0 23.0 24.0 25.0 24.5 25.0 25.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5 27.5 27.5	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.5 29.0	27.5 25.5 28.0 25.5 27.5 26.0 27.5 28.0 27.5 28.0 27.5 27.5
1 2 3 4 5 6 7 8 9 10	27.0 26.5 26.0 25.0 23.0 23.0 22.5 22.5 22.5	19.0 18.0 17.0 18.0 17.0 17.5 17.0 17.0	12.0 12.0 12.0 12.0 12.0 13.5 13.0 13.5 13.0	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5	MAR	16.0 16.0 16.5 18.0 18.0 19.0 19.0 19.5	21.0 21.5 21.5 20.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	22.0 22.0 22.5 22.0 23.0 24.0 25.0 24.5 25.0 25.0 27.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5 27.5 27.5	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.5 29.0 28.5 28.5 28.0	27.5 25.5 28.0 25.5 27.5 26.0 27.5 28.0 27.5 27.5 27.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14	27.0 26.5 26.0 25.0 23.0 23.0 22.5 22.5 22.5 22.5	19.0 18.0 17.0 18.0 17.0 17.5 17.5	12.0 12.0 12.0 12.0 12.0 13.5 13.0 13.5 13.0 11.0 11.0 11.5 12.0	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0 7.5 7.0	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5	MAR	16.0 16.0 16.5 18.0 18.0 19.0 19.0 19.5	21.0 21.5 21.5 20.0 21.0 21.0 21.0 21.0 21.0 21.0	22.0 22.0 22.5 22.0 23.0 24.0 25.0 24.5 25.0 25.0 27.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.0 28.5 28.0 29.0	27.5 25.5 28.0 25.5 27.5 26.0 27.5 28.0 27.5 27.5 27.0 27.0 24.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	27.0 26.5 26.0 25.0 23.0 23.0 22.5 22.5 22.5 22.5 21.5 21.5	19.0 18.0 17.0 18.0 17.0 17.0 17.0 17.0 17.0	12.0 12.0 12.0 12.0 12.0 13.5 13.5 13.0 11.0 11.5 12.0	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0 7.5 7.0 7.0	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5	MAR	16.0 16.0 16.5 18.0 18.0 19.0 19.0 19.5	21.0 21.5 21.5 20.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	22.0 22.0 22.5 22.0 23.0 24.0 25.0 24.5 25.0 25.0 27.0 27.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5 27.5 27.5 27.0 27.0 27.0 27.0	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.0 28.5 28.0 29.0	27.5 25.5 28.0 25.5 27.5 26.0 27.5 28.0 27.5 27.5 27.0 27.0 24.0 27.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	27.0 26.5 26.0 25.0 23.0 23.0 22.5 22.5 22.5 22.5 21.5 21.5	19.0 18.0 17.0 18.0 17.0 17.0 17.0 17.0 17.0 17.0	12.0 12.0 12.0 12.0 12.0 13.5 13.0 13.5 13.0 11.0 11.5 12.0 12.0	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0 7.5 7.0 7.0 8.0	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5	MAR	16.0 16.0 16.5 18.0 18.0 19.0 19.0 19.5	21.0 21.5 21.5 20.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	22.0 22.0 22.5 22.0 23.0 24.0 25.0 24.5 25.0 27.0 27.0 27.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5 27.5 27.0 27.0 27.0 27.5 28.0	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.0 28.5 28.0 29.0 29.0	27.5 25.5 28.0 25.5 27.5 26.0 27.5 28.0 27.5 27.0 27.0 24.0 27.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	27.0 26.5 26.0 25.0 23.0 23.0 23.5 22.5 22.5 22.5 21.5 21.5 21.5	19.0 18.0 17.0 18.0 17.0 17.5 17.0 17.0 17.0 17.0 17.0	12.0 12.0 12.0 12.0 12.0 13.5 13.5 13.0 11.0 11.5 12.0	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0 7.5 7.0 8.0	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5	MAR	16.0 16.0 16.5 18.0 18.0 19.0 19.0 19.5 19.5 20.0 20.0	21.0 21.5 21.5 20.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	22.0 22.0 22.5 22.0 23.0 24.0 25.0 24.5 25.0 25.0 27.0 27.0 27.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5 27.5 27.0 27.0 27.5 27.5 28.0	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.0 28.5 28.0 29.0 29.0	27.5 25.5 28.0 25.5 27.5 26.0 27.5 28.0 27.5 27.5 27.0 24.0 27.0 27.0
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	27.0 26.5 26.0 25.0 23.0 23.0 22.5 22.5 22.5 22.5 21.5 21.5	19.0 18.0 17.0 18.0 17.0 17.0 17.0 17.0 17.0 17.0	12.0 12.0 12.0 12.0 12.0 13.5 13.0 13.5 13.0 11.0 11.0 11.5 12.0 12.0	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0 7.5 7.0 7.0 8.0	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5	MAR	16.0 16.0 16.5 18.0 18.0 19.0 19.0 19.5	21.0 21.5 21.5 20.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	22.0 22.0 22.5 22.0 23.0 24.0 25.0 24.5 25.0 27.0 27.0 27.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5 27.5 27.0 27.0 27.0 27.5 28.0	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.0 28.5 28.0 29.0 29.0	27.5 25.5 28.0 25.5 27.5 26.0 27.5 28.0 27.5 27.0 27.0 24.0 27.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	27.0 26.5 26.0 25.0 23.0 23.0 23.5 22.5 22.5 22.5 21.5 21.5 21.5 21.5 21	19.0 18.0 17.0 18.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17	12.0 12.0 12.0 12.0 12.0 13.5 13.0 11.0 11.5 12.0 11.5 12.0	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0 7.5 7.0 7.0	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5	MAR	16.0 16.0 16.5 18.0 18.0 19.0 19.0 19.5 20.0 20.0 20.0 21.5	21.0 21.5 21.5 20.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	22.0 22.0 22.5 22.0 23.0 24.0 25.0 24.5 25.0 25.0 27.0 27.0 27.0 27.0 27.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5 27.5 27.5 27.5 27.0 27.0 27.0 27.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.0 28.5 28.0 29.0 29.0 29.5 29.5	27.5 25.5 28.0 25.5 27.5 26.0 27.5 28.5 27.5 27.5 27.0 27.0 27.0 27.0 27.0 25.0
1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	27.0 26.5 26.0 25.0 23.0 23.0 22.5 22.5 22.5 21.5 21.5 21.5 21.5 21.5 22.0 23.0	19.0 18.0 17.0 18.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17	12.0 12.0 12.0 12.0 12.0 13.5 13.0 13.5 13.0 11.0 11.5 12.0 11.5 12.0	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0 7.5 7.0 7.0 7.0	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5 7.0 7.5 7.5	MAR	16.0 16.0 16.5 18.0 18.0 19.0 19.0 19.5 20.0 20.0 20.0 21.5 21.5	21.0 21.5 21.5 20.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	22.0 22.0 22.5 22.0 23.0 24.0 25.0 24.5 25.0 25.0 27.0 27.0 27.0 27.0 27.0 27.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5 27.5 27.0 27.5 27.5 28.0 28.5 29.5 29.5	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.0 28.5 28.0 29.0 29.0 29.0 29.5 29.5	27.5 25.5 28.0 25.5 27.5 26.0 27.5 28.0 27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0
1 2 3 4 5 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	27.0 26.5 26.0 25.0 23.0 23.0 22.5 22.5 22.5 22.5 21.5 21.5 21.5 21.5	19.0 18.0 17.0 18.0 17.0 17.5 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0	12.0 12.0 12.0 12.0 12.0 13.5 13.0 13.5 13.0 11.0 11.0 11.5 12.0 12.0 11.5 11.5	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0 7.5 7.0 7.0 7.0 7.0 7.0	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5 7.0 7.5 7.5 8.5	MAR	16.0 16.0 16.5 18.0 18.0 19.0 19.0 19.5 20.0 20.0 21.5 21.5 22.0	21.0 21.5 21.5 20.0 21.0	22.0 22.0 22.5 22.0 23.0 24.0 25.0 25.0 25.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 28.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5 27.5 27.0 27.0 27.5 28.0 28.5 29.5 29.5 29.5	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.5 29.0 29.5 29.5 29.0 29.5	27.5 25.5 28.0 25.5 27.5 26.0 27.5 28.0 27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0
1 2 3 4 5 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	27.0 26.5 26.0 25.0 23.0 23.0 22.5 22.5 22.5 21.5 21.5 21.5 21.5 21.5 21.0 23.0 21.5 21.5	19.0 18.0 17.0 18.0 17.0 17.5 17.0 17.0 17.0 17.0 17.0 16.5 16.0 15.0	12.0 12.0 12.0 12.0 12.0 12.0 13.5 13.0 11.0 11.0 11.5 12.0 11.5 12.0 11.5 11.5	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0 7.5 7.0 7.0 7.0 7.0 7.0	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5 7.0 7.0 7.5 7.5 8.5 8.5 8.5 9.5	MAR	16.0 16.0 16.5 18.0 18.0 19.0 19.0 19.5 20.0 20.0 21.5 21.5 21.5 22.0 22.0	21.0 21.5 21.5 20.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	22.0 22.0 22.5 22.0 23.0 24.0 25.0 25.0 25.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 28.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5 27.5 27.5 27.5 27.5 27.5 28.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.5 29.0 29.5 29.5 29.0 29.5 29.5 29.0 29.5 29.5	27.5 25.5 28.0 25.5 27.5 27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0
1 2 3 4 5 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	27.0 26.5 26.0 25.0 23.0 23.0 22.5 22.5 22.5 22.5 21.5 21.5 21.5 21.5	19.0 18.0 17.0 18.0 17.0 17.5 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0	12.0 12.0 12.0 12.0 12.0 13.5 13.0 13.5 13.0 11.0 11.0 11.5 12.0 12.0 11.5 11.5	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0 7.5 7.0 7.0 7.0 7.0 7.0	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5 7.0 7.5 7.5 8.5	MAR	16.0 16.0 16.5 18.0 18.0 19.0 19.0 19.5 20.0 20.0 21.5 21.5 22.0	21.0 21.5 21.5 20.0 21.0	22.0 22.0 22.5 22.0 23.0 24.0 25.0 25.0 25.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 28.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5 27.5 27.0 27.0 27.5 28.0 28.5 29.5 29.5 29.5	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.5 29.0 29.5 29.5 29.0 29.5	27.5 25.5 28.0 25.5 27.5 26.0 27.5 28.0 27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0
1 2 3 4 5 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	27.0 26.5 26.0 25.0 23.0 23.0 23.5 22.5 22.5 22.5 21.5 21.5 21.5 21.5 21.0 23.0 21.0	19.0 18.0 17.0 18.0 17.0 17.5 17.0 17.0 17.0 17.0 17.0 17.0 16.5 16.0 15.0 15.0 14.5	12.0 12.0 12.0 12.0 12.0 13.5 13.0 11.0 11.0 11.5 12.0 11.5 11.5 12.0 11.0 11.5 11.0	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0 7.5 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.5 7.5	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5 7.0 7.0 7.5 7.5 8.5 8.5 9.5	MAR	16.0 16.0 16.5 18.0 18.0 19.0 19.0 19.0 20.0 20.0 20.0 21.5 21.5 22.0 22.0 21.5	21.0 21.5 20.0 21.0	22.0 22.0 22.5 22.0 23.0 24.0 25.0 25.0 25.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 28.0 28.0 28.0 28.0 28.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5 27.0 27.0 27.5 28.0 29.5 29.5 29.5 29.5 29.5 29.5 30.0 30.0 30.0	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.0 29.0 29.5 29.0 29.5 29.0 29.5 29.5 29.0 29.5 29.5 29.5 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5	27.5 25.5 28.0 25.5 27.5 26.0 27.5 27.5 27.0 27.0 24.0 27.0 27.0 27.0 25.0 25.0 25.5 25.5
1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	27.0 26.5 26.0 25.0 23.0 23.0 22.5 22.5 22.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5	19.0 18.0 17.0 18.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 15.0 15.0 15.0 14.5	12.0 12.0 12.0 12.0 12.0 12.0 12.0 13.5 13.0 11.0 11.0 11.5 12.0 11.5 11.5 11.5 11.0	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0 7.5 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5 7.0 7.5 7.5 8.5 8.5 8.5	MAR	16.0 16.0 16.5 18.0 18.0 19.0 19.0 19.5 20.0 20.0 20.0 21.5 21.5 22.0 21.5	21.0 21.5 20.0 21.5 21.5 21.5 21.5 21.5 21.5	22.0 22.0 22.5 22.0 23.0 24.0 25.0 24.5 25.0 25.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 28.0 28.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5 27.5 27.5 27.5 27.5 27.5 28.0 29.5 29.5 29.5 29.5 29.5 30.0 30.0	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.5 29.5 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5	27.5 25.5 28.0 25.5 27.5 26.0 27.5 28.0 27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0
1 2 3 4 5 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	27.0 26.5 26.0 25.0 23.0 23.0 23.5 22.5 22.5 21.5 21.5 21.5 21.5 21.5 21.0 23.0 21.0 21.0 21.0 21.0 21.0	19.0 18.0 17.0 18.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 14.5 14.5 14.5 13.0	12.0 12.0 12.0 12.0 12.0 13.5 13.0 11.0 11.0 11.5 12.0 12.0 11.5 11.5 12.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0 7.5 7.0 7.0 7.0 7.0 7.0 7.0 7.5 7.5 7.5 7.5	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5 7.0 7.0 7.0 7.5 7.5 8.5 9.0 10.0	MAR	16.0 16.0 16.5 18.0 18.0 19.0 19.0 19.0 20.0 20.0 20.0 20.0 21.5 20.5 21.5 22.0 21.5 22.0 21.5	21.0 21.5 20.0 21.0 22.0 22.5 22.5 22.5 22.5 21.5	22.0 22.0 22.5 22.0 23.0 24.0 25.0 25.0 25.0 27.0 28.0 27.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5 27.0 27.5 27.0 27.5 28.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 30.0	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.0 29.5 29.0 29.0 29.5 29.0 29.5 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5	27.5 25.5 28.0 25.5 27.5 26.0 27.5 27.0 27.0 27.0 27.0 27.0 27.0 25.0 25.0 25.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	27.0 26.5 26.0 25.0 23.0 23.0 22.5 22.5 22.5 21.5 21.5 21.5 21.5 21.5 21.0 21.0 21.0 21.0 21.0 21.0	19.0 18.0 17.0 18.0 17.0 17.0 17.0 17.0 17.0 17.0 16.5 16.0 15.0 15.0 14.5 14.5 14.5 13.0 12.0	12.0 12.0 12.0 12.0 12.0 13.5 13.0 11.0 11.0 11.5 12.0 11.5 12.0 11.5 11.5 12.0 11.0 11.0 9.0	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0 7.5 7.0 7.0 7.0 7.0 7.0 7.0 7.5 7.5 7.5 7.5	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5 7.0 7.0 7.5 7.5 8.5 8.5 9.0 10.0	MAR	16.0 16.0 16.5 18.0 18.0 19.0 19.0 19.5 20.0 20.0 21.5 21.5 22.0 21.5 22.0 21.5 22.0 21.5	21.0 21.5 20.0 21.0 22.5 22.5 22.5 21.5	22.0 22.0 22.5 22.0 23.0 24.0 25.0 25.0 25.0 27.0 27.0 27.0 27.0 28.0 28.0 28.0 28.0 27.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5 27.5 27.0 27.5 27.5 27.5 27.0 27.5	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0	27.5 25.5 28.0 25.5 27.5 26.0 27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	27.0 26.5 26.0 25.0 23.0 23.0 22.5 22.5 22.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.0 23.0 21.0 23.0 21.0 23.0 21.0 23.0 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.0	19.0 18.0 17.0 18.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 14.5 14.5 14.5 13.0	12.0 12.0 12.0 12.0 12.0 12.0 13.5 13.0 11.0 11.5 12.0 11.5 11.5 11.5 11.0 11.0 11.0 11.0 11	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0 7.5 7.0 7.0 7.0 7.0 7.0 7.0 7.5 7.5 7.5 7.5	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5 7.0 7.0 7.0 7.5 7.5 8.5 9.0 10.0	MAR	16.0 16.0 16.5 18.0 18.0 19.0 19.0 19.0 20.0 20.0 20.0 21.5 21.5 22.0 22.0 21.5 22.0 20.0 20.0 21.5	21.0 21.5 20.0 21.0 22.5 22.5 22.5 21.5	22.0 22.0 22.5 22.0 23.0 24.0 25.0 25.0 25.0 27.0 27.0 27.0 27.0 27.0 27.0 28.0 28.0 28.0 28.0 27.0	27.5 27.0 26.5 26.0 27.0 27.0 27.0 27.5	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.5 29.5 29.0 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5	27.5 25.5 28.0 25.5 27.5 26.0 27.5 27.0 27.0 27.0 27.0 27.0 27.0 25.0 25.0 25.5
1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	27.0 26.5 26.0 25.0 23.0 23.0 22.5 22.5 22.5 21.5 21.5 21.5 21.5 21.5 21.0 23.0 21.0 21.0 20.5 21.0	19.0 18.0 17.0 18.0 17.0 17.0 17.0 17.0 17.0 17.0 16.5 16.0 15.0 15.0 14.5 14.5 14.0 12.0 12.0	12.0 12.0 12.0 12.0 12.0 13.5 13.0 11.0 11.0 11.5 12.0 11.5 11.5 12.0 11.5 11.0 11.0 8.0 9.0 9.0 9.0 8.5	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0 7.5 7.0 7.0 7.0 7.0 7.0 7.5 7.5 7.5 7.5 7.5	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5 7.0 7.0 7.0 8.5 8.5 9.0 10.0 10.0	MAR	16.0 16.0 16.5 18.0 18.0 18.0 19.0 19.0 19.5 20.0 20.0 21.5 21.5 22.0 22.0 21.5 22.0 21.5 22.0 21.5	21.0 21.5 20.0 21.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 21.0	22.0 22.0 22.5 22.0 23.0 24.0 25.0 25.0 25.0 27.0 27.0 27.0 27.0 27.0 28.0 28.0 28.0 28.0 28.0 27.0	27.5 27.0 26.5 26.0 26.0 27.0 27.0 27.5 27.5 27.0 27.0 27.5 27.5 27.0 27.0 27.5 28.0 29.5 29.5 29.5 29.5 29.5 29.5 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.5 30.5 30.5 30.5 30.0	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.5 29.0 29.0 29.0 29.0 29.0 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5	27.5 25.5 28.0 25.5 27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	27.0 26.5 26.0 25.0 23.0 23.0 22.5 22.5 22.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.0 23.0 21.0 23.0 21.0 23.0 21.0 23.0 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.0	19.0 18.0 17.0 18.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 16.5 16.0 15.0 15.0 14.5 14.5 14.5	12.0 12.0 12.0 12.0 12.0 12.0 13.5 13.0 11.0 11.5 12.0 11.5 11.5 11.5 11.0 11.0 11.0 11.0 11	8.5 8.5 9.0 8.5 8.0 8.0 8.0 8.0 7.5 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.5 7.5 7.5	9.0 8.5 7.5 7.5 8.0 8.5 10.0 9.5 10.5 7.0 7.0 7.5 7.5 8.5 8.5 8.5 9.0 	MAR	16.0 16.0 16.5 18.0 18.0 19.0 19.0 19.0 20.0 20.0 20.0 21.5 21.5 22.0 22.0 21.5 22.0 20.0 20.0 21.5	21.0 21.5 20.0 21.0 22.5 22.5 22.5 21.5	22.0 22.0 22.5 22.0 23.0 24.0 25.0 25.0 25.0 27.0 27.0 27.0 27.0 27.0 27.0 28.0 28.0 28.0 28.0 27.0	27.5 27.0 26.5 26.0 27.0 27.0 27.0 27.5	30.0 30.0 29.5 29.5 29.5 29.5 29.0 29.0 29.0 29.0 29.5 29.5 29.0 29.0 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5	27.5 25.5 28.0 25.5 27.5 27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0

MAX

MIN

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA -- Continued

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

CHLORIDE, DISSOLVED (MG/L) . WATER	YEAR OCTO	BER 1980	TO SEPTEMBER	1981
SAMPLING DEP	TH 45.0	0 (FT.) . O	NCE-DAILY	1	

						200000000000000000000000000000000000000						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							35		26	29		36
2				35	62			29	24	30		39
			40		64	40	36		26	32	25	
4			30	45	54	36	36	28	25	30	38	42
5				45	56	37		30	30	35	32	
6				40	50		36			34	35	
7			40	46	64	36	32	30	28	25	34	43
8				56	70		37		30	28		37
9			40	46	62	36	43		30	34		42
10			40	39	50	34	44	30	28	33		42
11			40	46	58	32		28	28	26		40
12				60	62	36	44	24	34	30		
13			45		58	35		31	34	30		
14			50					28	39	32		41
15			45		42		34	24	40	34	29	44
16					44		40	28	39	33	28	40
17					42			35	40	30	29	54
18							38	49	34	34	27	48
19							30	40	36	30	33	
20								40		30	40	
21							32	44	36	34	38	40
22							30		36	28	34	40
23							28		39			46
24			30				26	35	42	30	40	45
25					70				28	26	33	42
26			35			40	25	38	34	25	32	
27			35			32	25	36	35	30	33	
28						30	30	30		24	34	42
29			30			31	34	29	42	28		40
30			45			30	34		28		34	46
31			35			35		24		26		
MAX							44	49	42	35		54
MIN							25	24	24	24		36
							23	2.4	24	24		36

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO JULY 1981

DATE TIME		16.80 1400		23,81		27,81		14,81
TOTAL CELLS/ML	:1	1500	-	2000	â	2500		2100
DIVERSITY: DIVISION .CLASS .ORDERFAMILYGENUS		1.7 1.7 2.0 2.2 2.6		1.7 1.7 2.5 3.1 4.0		1.6 1.6 1.8 2.1 3.1		1.4 1.4 1.9 2.5 3.5
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE) •CHLOROPHYCEAE ••CHLOROCOCCALES ••MICRACTINIACEAF								
MICRACTINIUM OOCYSTACEAE		-	41	2		-		-
ANKISTRODESMUS	13	1	55	3	28	1	42	2
CHODATELLA		-	27	1		-		-
DICTYOSPHAERIUM		-	55	3	130	5		-
KIRCHNERIELLA		-	69	3		-		-
00CYSTIS		-	55	3	130	5	310	15
QUADRIGULA		-		-		-	56	3
RADIOCOCCUS		-		-		-	110	5
SELENASTRUM	52	3		-		-		-
TETRAEDRUN	13	1		-		-		-
TREUBARIA		-	14	1		-		-
SCENEDESMACEAE								
CRUCIGENIA				-		-	220	11
SCENEDESMUS	310#	21		-	450#	18	200	9
TETRASTRUM		-	55	3		-		-
TETRASPORALES								
COCCOMYXACEAE								
ELAKATOTHRIX		-				-	56	3

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO JULY 1981

DATE	OCT	16,80	MAR	23,81	MAY	27.81	JUL	14,81
TIME	1	400	1	400	1	400		245
ORGANISM	CELLS /ML	PER-	CELLS /ML	PER- CENT	CELLS /ML	PER-	CELLS	PER-
		CLIVI	, III L	CENT	/ ML	CENT	/ML	CENT
CHLOROPHYTA (GREEN ALGAE) (CONT .CHLOROPHYCEAE (CONTINUED)	INUED)							
. VOLVOCALES								
CHLAMYDOMUNADACEAE								
CHLAMYDOMONAS		-	96	5	- 22	2	20	,
PHACOTACEAE			,,,	-			28	1
PTEROMONAS		-	14	1		-		-
CHRYSOPHYTA								
·BACILLARIOPHYCEAE								
CENTRALES								
COSCINODISCACEAE								
COSCINODISCUS		-	14	1	42	2	42	2
····CYCLOTELLA	90	6	550	11	270	10	240	11
MELOSIRA STEPHANODISCUS	540#		360		700#		410	4 20
. PENNALES	13	1	14	1	28	1		-
CYMBELLACEAE								
CYMBELLA		-	14	1		-		_
RHOPALODIA		-	14	1		-		-
DIATOMACEAE								
FRAGILARIACEAE		-	14	1		-		-
ASTERIONELLA		-	27	1		_		
SYNEDRA	13	1	69	3	28	1		
GOMPHONEMATACEAE					2.0	•		
GOMPHONEMA		-	14	1		-		-
NAVICULACEAE			12.2					
NITZSCHIACEAE		-	55	3	14	1	14	1
NITZSCHIA	13	1	180	9	42	2	130	
SURIRELLACEAE			*00	,	46	-	130	6
SURIRELLA		- "	14	1	14	1		-
CRYPTOPHYTA (CRYPTOMONADS)								
• CRYPTOPHYCEAE								
CRYPTOMONADALES								
CRYPTOCHRYSIDACEAE								
CHROOMONAS	13	1		-		-		-
CRYPTOMONADACEAE								
CRYPTOMONAS	13	1		-		-		-
CYANOPHYTA (BLUE-GREEN ALGAE)								
• CYANOPHYCEAE •• CHROOCOCCALES								
•••CHROOCOCCACEAE								
ANACYSTIS	77	5	55	3		-	22	-
HORMOGONALES		3	33	3				-
NOSTOCACEAE								
ANABAENA		-		-	420#	16		-
APHANIZOMENONCYLINDROSPERMUM		-		-	98	4	140	7
OSCILLATORIACEAE		2		-	140	5		-
OSCILLATORIA	310#	21	320#	16		-	70	3
SPIRULINA		-	14	1		-		-
EUGLENOPHYTA (EUGLENOIDS)								
•EUGLENOPHYTA (EUGLENOIDS)								
. EUGLENALES								
EUGLENACEAE								
EUGLENA	13	1	14	1		-		-
TRACHELOMONAS		-	82	4	28	1	14	1

NOTE: # - DUMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

119

295500091100000 LAKE VERRET NEAR PIERRE PART, LA

LOCATION.--Lat 29°55'00", long 91°10'00", in T.13 S., R.13 E., Assumption Parish, Hydrologic Unit 08090302, 1.25 mi (2.0 km) northwest of landing at State Highway 1016-1, 4.3 mi (6.9 km) southeast of Pierre Part.

DRAINAGE AREA. -- Not determined.

PERIOD OF RECORD. -- Water year 1975, 1979 to current year.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPE ATUR WATE (DEG	R- (PL	OR AT- JM BALT	TUR- BID- ITY (NTU)	OXYGE DIS SOLV (MG/	DE EN• BI 5- UN /ED 5	YGEN MAND, OCHEM INHIB DAY G/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./
NOV	1100	394	8.5	10	0.0	15	15	1.4	5.4	8.1	<10
06 JAN	1100	374		1,	• 0						
08 APR	1700	381	7.9	11	.5	15	20	1	8.1	6.3	K20
01 JUL	1300	359	7.8	22	2.5	10	20	9	9.2	4.4	
14	1030	303	8.6	32	2.0	50	9.0		9.0	4.5	
DATE	STREP- TOCOCCI FECAL• KF AGAR (COLS• PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCI DIS- SOLV (MG/ AS C	L (MC	GNE- (UM, (S- LVED G/L MG)	SODIUM. DIS- SOLVED (MG/L AS NA)	POTA SIC DIS SOL' (MG/ AS	JM, A S- LI VED (LKA- NITY MG/L AS ACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV											
06 JAN!		120	23	33	3	10	28		4.1	101	41
08	<4	120	29	31	l.	9.9	26	1	3.6	89	44
01	K50	110	32	31	i.	9.0	23	3	3.3	82	38
JUL	1400	110	1.4	28		8.7	19		3.2	92	29
14	1600	110	14	20	,	0.1	19		3.2	72	2,
n	RI DI SO (M	DE, RI S- D LVED SC G/L (M	DE D DIS- S DLVED (LICA. IS- OLVED MG/L AS IO2)	SOLIDS. RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOL	OF N STI- ITS, NO IS- T VED (ITRO- GEN+ 2+NO3 OTAL MG/L S N)	NITRO- GEN•AM MONIA ORGANI TOTAL (MG/L AS N)	+ PHC PHC	NOS- DRUS, DTAL NG/L
	6	33	• 2	5.9	225		216	.00	2.1		.45
	8	33	•2	5.4	210		206	.26	1.4		.12
AP 0 پال	1	34	• 1	2.5	197		190	.00	1.3		.12
	4	26	• 1	7.7	181		177	.03	1.7		.28

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

295500091100000 LAKE VERRET NEAR PIERRE PART, LA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSEN DIS- SOLVI (UG/I AS A	TOM P	AL DT- CADMI MA- DIS IAL SOLV	- TOM M ED TERI L (UG/	T- RECO A- FM BO AL TOM M	V. HEXA	A- COPPI NT, DIS- S. SOLI	TOM N VED TERI VL (UG/	OV. OT- IRON MA- DIS IAL SOLV G (UG)	ED TERI	T- LEAD+ DIS- AL SOLVED G (UG/L
NOV 06		1	7	<1	1	10	0	3	14	10 82	200 3
DATE	LEAD RECO FM BO TOM M TERI (UG/ AS P	V. MANO T- NESI A- DI AL SOL G (UG.	F. RECO S- FM BO VED TOM M /L TERI	T- MERCU	L TERI	T- ZINGAL SOL	S- TOM VED TER /L (UG	OV. OT- CARBO MA- ORGAN IAL TOTA // (MG/	NIC CYAN AL TOT /L (MG	AL PHENO	TOTAL
NOV 06		20	2 2	260	.1 .	.06	<3	41 1	4	• 0 0	6 <.1
DATE	PCB TOTA IN BO TOM M TERI (UG/K	T- PO A- CHL AL TOT	A- PCM ES, TOTA LY- IN BO OR. TOM M AL TERI	AL OT- MA- ALDR MAL TOTA	AL TER	AL OT- CHL MA- DAN MAL TOT	E. TOM	E. AL OT- MA- DD TAL TOT	AL TER	AL OT- MA- DDI IAL TOT	AL TERIAL
NOV 06		<1	<.1 <	٠ <	.01	<.1	<.1	<1 <	.01	<.1 <	•01 <•1
N	DATE 10V 06	DDT. TOTAL (UG/L)	DDI, TOTAL IN BOT- TOM MA- TEMIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINON. TOTAL IN ROT- TOM MA- TERIAL (UG/KG) <.1	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN. TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN. TOTAL (UG/L)	ENDRIN. TOTAL IN BOT- TOM MA- TERIAL (UG/KG) <.1
	DATE	ETHION. TOTAL (UG/L)	ETHION, TOTAL IN BUT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	THION. TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
	06	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1
	DATE	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT: IN BOTTOM MAIL: (UG/KG)	METHYL PARA- THION+ TOTAL (UG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	MIREX. TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PARA- THION. TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
٨	06	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1
	DATE	PER- THANE TOTAL (UG/L)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TOX- APHENE • TOTAL (UG/L)	TOXA- PHENE+ TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D,	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX. TOTAL (UG/L)
1	NOV 06	<.01	<.10	<.1	<1	<.01	<.1	.38	.02	• 0 0	.07

< Actual value is known to be less than the value shown.

295030091055600 LAKE VERRET NEAR GEORGIA, LA

LOCATION.--Lat 29°50'30", long 91°05'56", in T.14 S., R.13 E., Assumption Parish, Hydrologic Unit 08090302, 0.6 mi (1.0 km) from landing at State Highway 401 and 6.7 mi (10.8 km) east of Georgia.

DRAINAGE AREA -- Not determined.

PERIOD OF RECORD .-- Water years 1980 to current year.

		SPE- CIFIC CON-		T =1.0		DLOR	Tue	2440		OXYGEN DEMAND,	COLI- FORM, FECAL,
	TIME	DUCT- ANCE (MICRO-	PH FIELD	TEMP ATU WAT	IRE. I	PLAT- NUM DBALT	BID ITY	- DI SOL		BIOCHEM UNINHIB 5 DAY	0.7 UM-MF (COLS./
DATE		MHOS)	(UNITS)	(DEG	(C) UI	VITS)	INTU) (MG	/L)	(MG/L)	100 ML)
NOV											
06	1130	386	8.7	1	9.0	10	8.	0 1	7.6	9.0	
JAN 08	1715	370	7.8		1.5	10	20	1	2.2	6.5	K12
APR	1/15	370	1.0		1.5	10	20		2.6	0.5	MIZ
01 JUL	1400	356	7.7	2	2.0	15	15		9.0	5.5	<4
14	1040	284	8.6	3	81.0	40	10	1	0.6	5.6	
	STREP-										
	TOCOCCI		HARD-			AGNE-		POT			
	FECAL,	HARD-	NESS.	CALC		SIUM,	SODIU		UM,	ALKA-	SULFATE
	KF AGAR	NESS (MG/L	HONCAR-			DIS-	DIS-			LINITY (MG/L	DIS- SOLVED
	PER	AS	(MG/L	(MG		MG/L	(MG/			AS	(MG/L
DATE	100 ML)	CACO3)	CACO3)			5 MG)	AS N	7 / 13 / 13		CACO3)	AS 504)
NOV											
06	1000	120	23	3	33	10	26		3.9	101	42
JAN		1.00	-			1.2	0.0				
08 APR	<4	120	35	3	31	10	27		3.6	84	47
01	<4	110	31	3	30	9.0	23		3.4	81	41
JUL 14	1000	100	14		7	8.1	17		3.2	87	21
				,			•		100		-
	CF	ILU- FL	.uo- si	LICA,	SOLIDS		IDS, OF	NITRO-	NITR GEN.		
		DE, RI	DE, D	IS-	AT 180		STI-	GEN.	MONI		105-
				OLVED	DEG.			E0N+20N	ORGA		RUS,
			IG/L (MG/L AS	DIS-		IS- LVED	TOTAL (MG/L	TOT (MG		TAL IG/L
ı				102)	(MG/L		G/L)	AS N)	AS		P)
NO	v										
	06 AN	33	• 3	6.3	218	3	216	.00	2	. 4	•27
(08	36	• 2	5.6	22:	3	210				
	01	32	• 1	3.4	196	5	191	.04	1	. 4	.10
	JL 14	24	.1	7.7	170)	160	.04	1	.6	.21

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

295030091055600 LAKE VERRET NEAR GEORGIA, LA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSE V DIS SOLV (UGZ AS A	IC IN - TO FD T	SENIC OTAL 1 BOT- 1 M MA- ERIAL UG/G IS AS)	CADMII DIS- SOLVI (UG/I	ED TER L (UG.	OV. OT- MA- FI IAL TO	CHRO- MIUM, RECOV. M BOT- DM MA- TERIAL (UG/G)	CHRI MIUI HEX VALEI UG AS	M. A- NT, S.	COPPE DIS- SOLVI (UG/I AS CI	ED TER	OV. OT- IR MA- D IAL SO	ON, IS- LVED G/L FE)	IRON RECO FM BC TOM M TERI (UG/ AS F	OV. OT- IA- IAL	LEAD. DIS- SOLVED (UG/L AS PB)
NOV 06		1	20		<1	1	19		0		4	42	10	150	000	2
DATE	LEAD RECO FM BO TOM M TERI (UGZ AS P	N. M.	ANGA- NESE: DIS- SOLVED (UG/L S MN)	MANG NESE RECO FM BO TOM M TERI (UG/	, V. T- MERCI A- TOT AL (UG	F URY T AL /L	ERCURY RECOV. M ROT- OM MA- TERIAL (UG/G AS HG)	ZIN DI SOL (UG AS	S- VED /L	ZINC RECO FM BO TOM M TERI (UG/ AS Z	V. T- CARB A- ORGA AL TOT G (MG	NIC CYA	NIDE TAL IG/L CN)	PHENO (UGA		PCB TOTAL (UG/L)
NOV 06		20	7	4	90	• 0	.10		3	1	64 1	4	.00		16	<.1
DATE	PCF TOT/ IN BC TOM N TERT (UG/F	AL I AT- AA- (NAPH- THA- LENES, POLY- CHLOR, TOTAL (UG/L)	PCN TOTA IN BO TOM M TERI (UG/K	L T- A- ALDR AL TOT	IN. T	LDRIN, TOTAL N ROT- OM MA- TERIAL UG/KG)	CHL DAN TOT	E,	CHLO DANE TOTA IN BO TOM M TERI (UG/K	, L T- A- DD AL TOT	IN D. TON AL TE	DDD; DTAL BOT- MA- FRIAL G/KG)	DD! TOT/ (UG/	E.	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
06		<1	<.1	<1	<	.01	<.1		<.1		<1 <	.01	<.1	<	.01	<.1
ï	DATE NOV 06	DDT TOTAL (UG/	IN 100 L T	DI) I , OTAL HOT- M MA- ERIAL G/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINO TOTA IN RO TOM M TERI (UG/K	L T- IA- E AL T	DI- LDRIN OTAL UG/L)	TO IN TOM TE	I- RIN, TAL BOT- MA- RIAL /KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDO- SULFAN TOTAL IN BOT- TOM MA TERIAL (UG/KG	- END - TO	RIN. TAL G/L)	ENDR TOT IN B TOM TER (UG/	AL OT- MA- IAL
	DATE	ETHIO TOTA (UG/	IN N, TO L T	HION, OTAL BUT- M MA- ERIAL G/KG)	HEPTA- CHLOR. TOTAL (UG/L)	HEPT CHLO TOTA IN BO TOM M TERI (UG/K	OR. AL H OT - C MA- EF	HEPTA- CHLOR POXIDE FOTAL (UG/L)	EPO TOT BO	PTA- ILOR IXIDE IN ITTOM IATL.	LINDANE TOTAL (UG/L)	LINDAN TOTAL IN BOT TOM MA TERIA (UG/KG	- MA	ALA- HION. OTAL UG/L)	TOT IN A	ON+ OT- MA- IAL
	06	<.	01	<.1	<.01	•	.1	<.01		<.1	<.01	۷.	1	<.01		<.1
	DATE	METH OXY CHLO TOTA (UG/	- C - TO R, B	ETH- XY- HLOR, T. IN OTIOM MATL. IG/KG)	METHYL PARA- THIUN. TOTAL (UG/L)	METHY PARA THIC TOT. BOTT MAT	1- IN IN IOM	METHYL TRI- THION, TOTAL (UG/L)	TH TO I BC	THYL RI- HION, IN OTTOM MATL.	MIREX, TOTAL (UG/L)	MIREX TOTAL IN BOT TOM MA TERIA (UG/KG	- PA	ARA- HION, OTAL UG/L)	IN F	ON, AL BOT- MA- RIAL
	NOV 06	<.	01	<.1	<.01		<.1	<.01		<.1	<.01	<,	1	<.01		<.1
	DATE	PER THAN TOTA (UG/	TE ROLL MA	HANE IN ITOM (TERIL)G/KG)	TUX- APHENE, TOTAL (UG/L)	TOXA PHET TOTA IN RO TOM ! TER (UG/)	NE, AL DI- HA- IAL	TOFAL THI- THION (UG/L)	IN TON TON	IRI- HION, DTAL BOT- M MA- ERIAL G/KG)	2,4-0, TOTAL (UG/L)	2, 4-0 TOTAL (UG/L)	T	4,5-T DTAL UG/L)		/EX• [AL 5/L)
	NOV 06	<.	01	<.10	<.1		<1	<.01		<.1	.29	.0	0	.00		.05

< Actual value is known to be less than the value shown.

294301091105700 LAKE PALOURDE AT MORGAN CITY, LA

LOCATION.--Lat 29°43'01", long 91°10'57", in T.15 S., R.12 E., St. Mary Parish, Hydrologic Unit 08090302, 3.0 mi (4.8 km) from State Highway 2 and 1.0 mi (1.6 km) east of Morgan City.

DRAINAGE AREA -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975, 1979 to current year.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPE ATUR WATE (DEG	R- (PL E, INC R COF	OR AT- JM BALT	TUR- BID- ITY (NTU)	OXYGEN DIS- SOLVEI (MG/L)	UNINH:	FECAL. O.7 B UM-MF (COLS./	,
OCT											
23	0930	432	8.2	20	• 5	5	5.0	11.4	5.		
JAN 08	1600	416	7.6	11	0	10	20	10.8	3 5	2 180	1
APR	1000	410	7.0	11	• 0	10	20	10.	, ,,	100	•
01 JUL	1000	405	8.0	55	• 0	5	8.0	8.8	3 3,	5 110)
14	0915	347	8.2	31	• 0	30	15	6.7	2 3.	.6	
	STREP- TOCOCCI FECAL, KF AGAR (COLS.	HARD- NESS (MG/L	HARD- NESS; NUNCAR- BONATE	CALCI DIS- SOLV	UM 51	ONE- UM. IS-	SODIUM DIS- SOLVED	POTAS- SIUM DIS- SOLVEI	LINITY	DIS-	
2025	PER	AS	(MG/L	(MG/			(MG/L	(MG/L	ΔS	(MG/L	
DATE	100 ML)	CACO3)	CACO3)	AS C	A) AS	MG)	AS NA	AS K)	CACO	3) AS 504)	
OCT 23 JAN 08	K60	140 140	33 35	37 35		2	32 31	3.4			
01	K20	140	45	36		.1	26	3.3		0 52	
JUL	NEO		4.5	30		•	20	3.		, 0	
14	860	120	27	32		9.8	23	3,8	2 (93 41	
D	RI DI SO (M	DE, R] S- C LVED SC G/L (N	DE D DIS- SOLVED (1	ICA,	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SUM CONS TUEN DI SOL	NTS. NO	GEN, MC GEN, MC 02+NO3 OF TOTAL	ITRO- EN.AM- DNIA + RGANIC F TOTAL MG/L AS N)	PHOS- PHORUS. TOTAL (MG/L AS P)	
00		41	•3	6.8	252		250	.00	1.7	.08	
JA 0	N 8	38	•2	3.7	239		237				
ΔP 0 JU	1	34	•2	1.6	237		218	.06	1.5	.10	
		32	•2	8.9	207		206	.03	1.7	.15	

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

294301091105700 LAKE PALOURDE AT MORGAN CITY, LA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSEA DIS SOLV (UG/ AS /	VIC I	RSEN TOTAL N BO OM M TERI (UG/ AS A	L T- CADM A- DI AL SOL	S- VED	CADMI RECO FM BO TOM M TERI (UG/ AS (OV. OT- MA- IAL	CHRO MIUM RECO FM BO TOM M TERI (UG/	V. I- A- AL	CHRO MIUM HEXA VALEO DIS (UGAS)	1. 1 NT, 5.	COPPE DIS- SOLV	/ED	COPPE RECO FM BC TOM M TERI (UG/ AS C	OV. OT- MA- IAL	IRO DI SOL (UG AS	VED	IRUI RECO FM BO TOM I TER (UG.	OV. OT- MA- IAL	LEAD. DIS- SOLVED (UG/L AS PB)
23		1		0	1		0		1		0		8		4		<10	2	500	4
DATE	LEAL RECC FM BC TOM TERT (UGA	OV. OT- MA- IAL	MANG NESE DIS SOLV (UG/ AS M	A- NES REC - FM E ED TOM L TEN	.VV.	MERCI TOT. (UG. AS	AL /L	MERCU RECU FM BO TOM M TERI (UG/ AS F	V . IT - IA - IA - IG	ZINI DISOL (UG.	ED/L	ZING RECO FM BO TOM I TER (UG.	OV. OI- MA- IAL	CARBO ORGAN TOTA (MGAS	NIC AL /L	CYAN TOT (MG AS	AL /L	PHEN (UG		PCB TOTAL (UG/L)
23		10		1	200		. 0		04		10		18	13	2		.00		13	<.1
DATE	PCF TOT IN RO TOM TER (UGZ))T- MA- IAL	NAPH THA LENE POL CHLO TOTA (UG/	- P(S, TO Y- IN E R. TOM L TE	MA-	ALDR TOT (UG	AL	ALDRI TOTA IN BO TOM M TERM	AL OT - MA-	CHL DAN TOT (UG	E.	CHL DAN TOT IN B TOM TER (UG/	AL OT- MA- IAL	001 101 (UG	AL	TOT IN B TOM TER (UG/	AL OT- MA- IAL	DD TOI (UG	AL	DDE. TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
23		2	<	•1	< 1	<	.01		. 1		<.1		1	<	.01		<.1	<	.01	<.1
	DATE 23	101 101 (Ja)	1L	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	AZI IO (U	I- NUN, TAL G/L)	TO IN TOM TE	I- NON, TAL BOT- MA- RIAL /KG)	TO (U	I- DRIN TAL G/L)	TOM TOM TE	PRIN. PAL BOT- I MA- RIAL B/KG) <1.0	TO (U	DO- FAN. TAL G/L)	TO IN IOM TE	DO- FAN, TAL BOT- MA- RIAL /KG)	(0	RIN, TAL G/L)	IN TOM TE	RIN. TAL BOT- MA- RIAL /KG)
	DATE	1017 1017	AL	FTHIUN. TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TO	PTA- LOR, TAL G/L)	CH TO TOM TE	PTA- LOR. TAL BOT- MA- RIAL /KG)	EPO TO	PTA- LOR XIDE TAL G/L)	EPC TOT BC	EPTA- HLOR EXIDE IN OTTOM MATL. G/KG)	TO	IDANE ITAL IG/L)	IN TOM TE	DANE TAL BOT- MA- RIAL /KG)	TH	ILA- HION, TAL	IN TOM TOM	LA- ION, TAL BOT- MA- RIAL /KG)
C	23	<	.01	<.1		<.01		<.1		<.01		<.1		<.01		<.1		<.01		<.1
	DATE	WE I	Y- OR.	METH- OXY- CHLOR: TOT: IN ROTIOM MATL: (UG/KG)	PA TH TO	THYL RA- ION. TAL	TOT BO	HYL RA- ION+ IN ITOM ATL. /KG)	TH TO	THYL RI- ION, TAL	TO TO	ETHYL IRI- HION, I. IN OTTOM MATL. G/KG)	1	REX.	IN IOM TE	REX, TAL BOT- MA- RIAL /KG)	TH	HION, TAL	IN TOM TOM	HION, DTAL BOT- H MA- RIAL G/KG)
(23	<	.01	<.1		<.01		<.1		<.01		<.1		<.01		<.1		<.01		<.1
	DATE	PE 1H4 101 (UG	NE AL	PER- THANE IN BOITOM MATERIL (UG/NG)	APH	OX- HENE. OTAL HG/L)	IN TOM TE	XA- IENE • ITAL BOT- I MA- RIAL	TH	TAL RI- HION JG/L)	IN TO	TRI- HION. DTAL BOT- M MA- ERIAL G/KG)	T	4-D,)TAL JG/L)	TO	4-DP TAL /L)	TO	**5-T)TAL JG/L)	TO	LVEX. DTAL JG/L)
(23	<	.01	<.10		<.1		< 1		<.01		<.1		.10		.00		.00		.01

< Actual value is known to be less than the value shown.

293540091093000 BAYOU PENCHANT AT BAYOU CHENE, NEAR AMELIA, LA (CE 53100)

LOCATION.--Lat 29°35'40", long 91°09'30", in SW1/4NW1/4 sec.17, T.17 S., R.13 E., Terrebonne Parish, Hydrologic Unit 08090302, 7.9 mi (12.7 km) south-southeast of Morgan City and 5.9 mi (9.5 km) southwest of Amelia.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD .-- Water years 1975 to January 1981 (discontinued) .

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT												
28	1310	509	7.9	10	3.0	<1.0	7.8	24	.1	460	K320	150
18 DEC	1544					<1.0	8.8		• 9		280	
10	1130	432	7.7	5	50	<1.0	8.2	18	1.6		180	140
20	1410	451	7.6	10	110	<1.0	12.6	61	3.2	K40	K24	150
DATE	HARD- NESS; NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO= RIDE+ DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)
OCT 28	36	37	13	35	3.8	111	46	48	40	.85	.01	.86
NOV 18									81	.14	.02	.16
DEC 10	40	35	13	31	3.6	100	50	44	104	•52	.06	•58
JAN												
20	41	37	13	35	3.3	105	53	45	206	.65	• 01	.66
DATE	NITRO- GEN·AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
0CT 28	.85	•22	2	1	0	<1	0	<1	0	0	6	4
18 DEC	.81	.14	1	0	0	0	0	0	20	0	8	4
10	1.4	.08	2	1	0	1	0	1	10	0	7	.3
20	.88	.09	2	1	0	<1	0	<1	0	0	9	1

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

293540091093000 BAYOU PENCHANT AT BAYOU CHENE, NEAR AMELIA, LA (CE 53100) -- Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	SOLVE (UG/L	TO RE D ER	CURY TAL COV- ABLE G/L HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL DIS- SOLVE (UG/L AS NI	D TO	TAL	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 28	10	4		0	• 0	.0	7		4	0	0	2.0	10	<3
NOV 18	70	4		1	.0	.0	5		2	0	0		20	10
DEC 10	20		5	1	.0	.0	3		4	0	0	1.0	40	4
JAN 20	20	10)	0	• 0	• 0	12		3	0	0	6.0	20	4
DATE	CARBON. ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOL	GRE TO RE S GR	AND TASE. TAL COV. RAVI- TRIC	PCB TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN TOTAL (UG/L	, DA	HLOR- ANE: DTAL JG/L)	DDD, TOTAL (UG/L)	DDE+ TOTAL (UG/L)	DDT. TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)
0CT 28		.00)	4	0	• 0	.0	.00	0.0	.0	.000	.000	.000	.01
NOV 18	6.5	.00		2	0	. 0	.0	.00	0.0	.0	.000	.001	.000	.01
DEC 10	6.8	.00		3	0	<.1	<.1	<.00)1	<.1	<.001	<.001	<.001	.01
JAN 20	17	.0	0	1	0	<.1	<.1	<.00	1	<.1	<.001	<.001	<.001	.01
DA	TE (U	TAL TO	OTAL 1	NDRIN.	ETHIC TOTA (UG/	N. CHL	OR, EPO	TAL 1	NDANE TOTAL (UG/L)	MALA- THION TOTAL (UG/L	O CHLC	PARA OR, THIO AL TOTA	- TR N, THI L TOT	HYL II- ON• AL
		.000	.000	.000		,00 .	.000	.000	.000	.0	0 .	.00	00	.00
NOV 18		.000	.000	.000		.00	.000	.000	.000	.0	0 .	.00	00	.00
DEC 10	<.	.001	<.001	<.001	<.	.01 <.	.001 <.	.001	<.001	<.0	1 <.	.01 <.	01	.01
JAN 20		.001	<.001	<.001	<.	,01 <.	.001 <.	.001	<.001	<.0	1 <.	.01 <.	01	.01
DA	T	REX. TOTAL TO	DTAL	PER- THANE TOTAL (UG/L)	TOX APHEN TOTA (UGA	NE . TH	ION TO	TAL	4-DP TOTAL JG/L)	2,4,5- TOTAL (UG/L	. TOT	AL FLUOR	O- PHY K- PLA TO O CHRO OM FLUO	TO- NK- ON OMO
0CT		.00	.00	.00		.0	.00	.02	.00	. ()1	.00 9.6	6	.000
NOV		.00	.00	.00		.0	.00	.02	.00	. (.00 10.1		.000
DEC		<.01	<.01	<.01			<.01	.03	.00	. (.01 8.3	5	.000
JAN		<.01	<.01	<.01			<.01	.30	.00	. (00	.01 11.5		000
		1		- 31										

< Actual value is known to be less than the value shown.

292215091231500 LOWER ATCHAFALAYA RIVER CHANNEL AT EUGENE ISLAND, NEAR MORGAN CITY, LA (CE 88600) (Formerly published as Atchafalaya Bay at Eugene Island, near Morgan City, LA (CE 88600))

LOCATION.--Lat 29°22'15", long 91°23'15", T.19 S., R.11 E., St. Mary Parish, Hydrologic Unit 08080108, 1.2 mi (1.9 km) northeast of Point Au Fer light and 25 mi (40 km) southwest of Morgan City.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1974 to January 1981 (discontinued).

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCF (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HK)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT												
NOV	1325	2340	7.9	10	55	<1.0	7.7	31		760	K150	330
18 DEC	1555	1880	7.8	15	25	<1.0	8.7	27	• 3	77	200	270
10 JAN	1045	422	7.8	15	50	<1.0		20			K320	150
20	1420	1780	7.8	5	230	<1.0	12.8	110	4.1	100	K52	260
DATE	HARD- NESS+ NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM. DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS. RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN: NITRATE TOTAL (MG/L AS N)	NITRO- GEN+ NITRITE TOTAL (MG/L AS N)	NITRO- GEN; NO2+NO3 TOTAL (MG/L AS N)
OCT												
28 NOV	220	50	51	360	13	115	120	670	92	.89	.01	.90
18	160	47	38	270 '	12	112	110	460	38	.59	.01	.60
DEC 10	51	38	13	35	3.6	97	57	48	142	.73	.02	.75
JAN 20	160	45	31	260	12	108	100	440	524	.80	.02	.82
DATE	NTTRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS. TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER. TOTAL (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
	215 77											
28	1.1	.26	3	2	0	0	1	0	30	0	7	3
NOV 18	.87	.35	1	1	0	<1	0	<1	0	0	8	3
DEC 10	1.7	.06	2	1	0	<1	0	<1	0	0	5	3
JAN 20	.90	.05	3	1	0	0	0	0	10	0	11	3

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

292215091231500 LOWER ATCHAFALAYA RIVER CHANNEL AT EUGENE ISLAND, NEAR MORGAN CITY, LA (CE 88600) -- Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

.000

<.01 <.01 <.01 8.35

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD. TOTAL (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL (UG/L AS HG	SOLVED (UG/L	NICKEL, TOTAL (UG/L	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SOLVED TO	ZINC. FOTAL (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 28	200	3	0		0 .0	8	3	0	0		20	10
NOV 18	10	5	0		0 .0	3	2	0	0		20	6
DEC 10	30	4	2				4	0	0	1.0	40	3
JAN												
20	30	17	4	•	.0	21	0	0	0		40	10
DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	PCB TOTAL	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN+ TOTAL (UG/L)	CHLOR- DANE + TOTAL (UG/L)	DDD. TOTAL (UG/L)	TOTAL T	DDT+ OTAL	DI- AZINON, TOTAL (UG/L)
OCT	0.0250	0.0	Ó	1	0	0	0.00	0	0.00	000	0.00	.01
28 NOV		.00	0			.0	.000	. 0	.000	.000	.000	
18 DEC	3,5	.00	1		• 0	• 0	.000	.0	.000	.000	.000	.01
10 JAN	8.8	.00	3		<.1	<.1	<.001	<.1	<.001	<.001	< .001	<.01
20	17	.00	1		<.1	<.1	<.001	<.1	<.001	<.001	<.001	.01
DA	TOT	AL TO	TAL TO	TAL IC	HION. CH	PTA- CHL	PTA- LOR (IDE LIND TAL TOT G/L) (UG	AL TOTA	ON, CHLOR	PARA- THION, TOTAL	TRI- THIO	- N.
ост		0.00		222	2.2	000	000	200	00	0.0		00
NOV				.000					.00 .0			00
DEC				.000					.00 .0			00
JAN		001 <.	001 <	.001	<.01 <	.001 <.	001 <.(001 <	.01 <.0	<.01		
20	· · · · · · · · · · · · · · · · · · ·	001 <.	001 <	.001	<.01 <	.001 <.	001 <.0	001 <	.01 <.0	1 <.01	٠.	01
		DAI	₹ 4- P	ER- 1	rox- To	TAL				CHLUR-A PHYTO- PLANK- TON		0- K-
DA	TO	TAL TO	ION, TH	ANE APP	HENE TH	RI- 2.4	14L TOT	AL TOTA	AL TOTAL	+ CHROMO FLUOROM	CHROM	0 Ом
		• 00	.00	.00	.0	• U O	.02	.00	.01 .0	0 4.09	• 0	00
		.00	.00	.00	. 0	.00	.02	.00	.00 .0	0 11.4	.0	00
DEC 10		.01	<.01	<.01	<.1	<.01	.09	.00	.01 .0	0 5.85	.0	00
JAN												Date:

< Actual value is known to be less than the value shown.

<.01 <.1 <.01 .02

20...

<.01

<.01

295325091313000 BAYOU TECHE AT CHARENTON, LA (CE 64380) (Formerly published as 295845091313000 Bayou Teche at Charenton, LA (CE 64380))

LOCATION.--Lat 29°53'25", long 91°31'30", T.13 S., R.9 E., St. Mary Parish, Hydrologic Unit 08080102, 0.5 mi (0.8 km) north of Charenton.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD.-WATER TEMPERATURES: October 1976 to November 1978, October 1980 to September 1981.
CHLORIDE: October 1974 to November 1978, November 1979 to current year.

COOPERATION .-- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: Maximum daily, 32.5°C June 25, 28, July 1, 26, 1977, July 13, 1978; minimum daily, 4.0°C Jan. 19, 1977. CHLORIDE: Max June 2, 1980. Maximum daily, 1,200 mg/L Nov. 15, 16, 1980; minimum daily, 5.0 mg/L Apr. 13, 24, 25, May 9,

EXTREMES FOR CURRENT YEAR .--WATER TEMPERATURES: Maximum daily, 32.0°C Aug. 14, 15, 22, 23; minimum daily, 7.0°C Jan. 18, Feb. 14. CHLORIDE: Maximum daily, 1,200 mg/L Nov. 15, 16; minimum daily, 20 mg/L June 21.

> TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

DAY	ост	NOV	DEC	NAL	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.0	15.0	12.0	12.0	14.0	18.0	22.0	24.0	27.0	29.0	30.0	28.0
2	29.0	20.0	15.0	12.0	13.0	18.0	22.0	24.0	28.0	29.0	30.0	28.0
3	29.0	20.0	14.0	12.0	9.0	18.0	22.0	24.0	28.0	28.0	30.0	29.0
4	24.0	20.0	15.0	13.0	11.0	17.0	22.0	25.0	28.0	28.0	30.0	30.0
5	24.0	21.0	14.0	12.0	11.0	17.0	22.0	25.0	28.0	27.0	30.0	30.0
6	24.0	21.0	17.0	13.0	11.0	17.0	22.0	25.0	28.0	28.0	30.0	30.0
7	24.0	21.0	17.0	14.0	10.0	18.0	55.0	24.0	28.0		30.0	29.0
8	24.0	21.0	19.0	12.0	10.0	18.0	23.0	24.0	28.0	29.0	30.0	31.0
9	24.0	23.0	19.0	15.0	12.0	18.0	23.0	24.0	28.0	27.0	30.0	29.0
10	24.0	23.0	18.0	14.0	14.0	18.0	24.0	24.0	29.0	28.0	30.0	29.0
11	24.0	23.0	14.0	12.0	11.0	18.0	24.0	24.0	29.0	28.0	31.0	28.0
12	24.0	23.0	14.0	8.0	12.0	18.0	24.0	24.0	29.0	27.0	31.0	28.0
13	22.0	21.0	14.0	10.0	9.0	18.0	24.0	24.0	28.0	27.0	31.0	28.0
14	22.0	21.0	15.0	11.0	7.0	18.0	24.0	26.0	28.0	27.0	32.0	28.0
15	22.0	21.0	14.0	11.0	8.0	18.0	26.0	25.0	28.0		32.0	26.0
16	22.0	21.0	16.0	13.0	10.0	18.0	26.0	25.0	28.0	31.0	31.0	23.0
17	22.0	20.0	16.0	9.0	11.0	18.0	26.0	26.0	29.0	31.0	31.0	24.0
18	22.0	16.0	16.0	7.0	13.0	17.0	27.0	26.0	29.0	31.0	31.0	23.0
19	22.0	13.0	16.0	10.0	12.0	16.0	25.0	27.0	29.0	31.0	30.0	23.0
20	23.0	14.0	13.0	11.0	13.0	16.0	25.0	24.0	29.0	31.0	30.0	25.0
21	23.0	12.0	8.0	10.0	12.0	16.0	25.0	23.0	29.0	30.0	29.0	26.0
22	23.0	10.0	11.0	9.0	13.0	15.0	25.0	23.0	29.0	30.0	32.0	25.0
23	23.0	16.0	12.0	10.0	11.0	15.0	25.0	26.0	29.0	30.0	32.0	27.0
24	23.0	15.0	12.0	10.0	16.0	16.0	25.0	27.0	29.0	30.0	30.0	27.0
25	23.0	15.0	13.0		18.0	15.0	24.0	26.0	28.0	30.0	31.0	27.0
26	23.0	14.0	12.0		18.0	15.0	25.0	26.0	27.0	30.0	29.0	27.0
27	23.0	14.0	10.0		18.0	15.0	24.0	27.0	27.0	30.0	29.0	28.0
28	23.0	14.0	10.0		18.0	17.0	25.0	27.0	28.0	30.0	29.0	28.0
29	23.0	14.0	11.0	14.0		18.0	25.0	27.0	29.0	30.0	28.0	28.0
30	23.0	14.0	10.0	15.0		20.0	25.0	27.0	29.0	30.0	28.0	28.0
31			10.0	15.0		22.0		27.0		30.0	28.0	
MAX	29.0	23.0	19.0	15.0	18.0	0.55	27.0	27.0	29.0	31.0	32.0	31.0
MIN	22.0	10.0	8.0	7.0	7.0	15.0	22.0	23.0	27.0	27.0	28.0	23.0

MISSISSIPPI RIVER DELTA 295325091313000 BAYOU TECHE AT CHARENTON, LA (CE 64380)--Continued

CHLORIDE, DISSOLVED (MG/L), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	55	40	35	50	44	510	41	54	28	30	38
2	73	55	45	40	49	280	240	50	57	27	26	46
3	74	40	35	40	44	280	260	29	56	25	33	37
4	74	70	40	40	47	170	240	38	62	36	30	35
5	77	40	40	35	55	280	250	52	60	25	32	32
6	77	45	45	40	42	140	160	74	32	31	33	35
7	76	55	65	40	40	61	170	50	50		28	36
8	66	50	240	40	40	47	120	50	60	24	28	32
9	55	130	800	40	45	40	100	52	55	26	25	33
10	65	150	40	35	40	48	110	76	60		30	33
11	45	85	40	40	40	46	110	83	60	28	30	38
12	66	65	40	45	64	44	110	72	47	22	30	42
13	66	85	40	50	43	46	74	78	34	26	28	42
14	56	1000	50	50	56	40	79	54	24	22	31	41
15	79	1200	45	55	57	39	130	75	26	28	35	37
16	58	1200	40	45	65	36	150	63	30	23	30	34
17	330	600	50	40	54	38	140	46	31	22	30	36
18	830	200	50	40	56	54	110	45	28	28	37	28
19	85	100	40	40	36	68	52	47	26	26	36	33
20	98	100	35	45	36	69	63	70	33	26	32	36
21	70	100	40	40	32	60	110	62	20	28	36	40
22	68	95	45	40	36	33	68	48	25	34	30	42
23	66	75	45	50	38	57	66	44	25	25	34	35
24	66	65	60	40	36	39	64	48	41	38	38	39
25	75	70	45		41	33	96	36	40	27	36	44
26	72	70	30		40	28	70	39	34	32	38	44
27	72	60	40		35	33	88	66	42	30	41	44
28		60	35		54	28	81	58	35	26	43	46
29	68	45	35	63		130	72	56	25	28	36	45
30	70	60	40	51		740	97	60	24	32	38	46
31	70		40	45		550		44		26	42	
MAX	830	1200	800	63	65	740	510	83	62	38	43	46
MIN	45	40	30	35	32	28	52	29	20	22	25	28

131

07385790 CHARENTON DRAINAGE CANAL NEAR BALDWIN, LA (CE 64450)

LOCATION.--Lat 29°49'23", long 91°32'30", T.14 S., R.9 E., St. Mary Parish, Hydrologic Unit 08080102, about 35 ft (10.7 m) southwest of Southern Pacific Railroad bridge and 0.7 mi (1.1 km) south of Baldwin.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1958-59, 1975 to current year.

PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: October 1976 to November 1978, March 1980 to current year. CHLORIDE: October 1974 to November 1978, November 1979 to current year.

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD . --

WATER TEMPERATURES: Maximum daily, 36.0°C July 11,1980; minimum daily, 4.0°C Jan. 19, 1977. CHLORIDE: Maximum daily, 1,300 mg/L Dec. 9, 1980; minimum daily, 5.0 mg/L Apr.27, 1980.

EXTREMES FOR CURRENT YEAR.-WATER TEMPERATURES: Maximum daily, 32.0°C several days in July, August, and September; minimum daily, 8.0°C Feb. 13, 14.
CHLORIDE: Maximum daily, 1,300 mg/L Dec. 9; minimum daily, 22 mg/L June 21, July 5, 8, 21.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

				e, march		NCE-DAILY	LMIN OCTOR		9 30. 12			
DAY	oct	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		18.0	13.0	11.0	14.0	17.0	21.0	24.0	29.0	30.0	30.0	30.0
2		18.0	13.0	11.0	10.0	18.0	21.0	24.0	29.0	30.0	30.0	32.0
3		18.0	13.0	11.0	12.0	19.0	21.0	24.0	0.85	29.0	30.0	28.0
4	24.0	18.0	13.0	12.0	10.0	17.0	55.0	25.0	28.0	29.0	31.0	29.0
5	24.0	18.0	16.0	12.0	11.0	16.0	22.0	25.0	27.0	29.0	29.0	28.0
6	24.0	18.0	16.0	13.0	11.0	17.0	21.0	25.0	27.0	28.0	29.0	29.0
7	24.0	20.0	16.0	11.0	12.0	18.0	21.0	25.0	28.0	27.0	30.0	29.0
8	24.0	20.0	16.0	13.0	14.0	17.0	20.0	25.0	29.0	28.0	30.0	32.0
9	24.0	20.0	19.0	11.0	14.0	16.0	21.0	25.0	29.0	29.0	30.0	30.0
10	24.0	20.0	17.0	11.0	15.0	15.0	21.0	25.0	29.0	30.0	30.0	30.0
11	24.0	20.0	14.0	11.0	12.0	15.0	22.0	25.0	29.0	29.0	30.0	30.0
12	24.0	20.0	14.0	11.0	9.0	15.0	23.0	25.0	29.0	30.0	31.0	30.0
13	25.0	20.0	14.0	10.0	8.0	16.0	24.0	25.0	27.0	30.0	31.0	29.0
14	25.0	20.0	14.0	10.0	8.0	17.0	23.0	24.0	27.0	30.0	32.0	28.0
15	25.0	20.0	14.0	11.0	10.0	17.0	55.0	24.0	29.0	31.0	31.0	28.0
16	25.0	20.0	14.0	11.0	11.0	16.0	21.0	26.0	29.0	31.0	30.0	26.0
17	25.0	20.0	14.0	11.0	12.0	16.0	25.0	26.0	30.0	32.0	31.0	26.0
18	25.0	16.0	13.0	10.0	13.0	16.0	25.0	26.0	30.0	31.0	32.0	24.0
19	25.0	12.0	13.0	10.0	13.0	16.0	23.0	26.0	30.0	31.0	31.0	24.0
50	25.0	13.0	13.0	9.0	13.0	16.0	25.0	25.0	30.0	31.0	31.0	24.0
21	25.0	13.0	13.0	10.0	17.0	16.0	25.0	23.0	30.0	30.0	31.0	25.0
55	25.0	14.0	13.0	10.0	17.0	16.0	0.85	24.0	30.0	31.0	30.0	25.0
23	25.0	14.0	13.0	9.0	17.0	16.0	26.0	25.0	30.0	30.0	30.0	25.0
24	25.0	14.0	13.0	9.0	16.0	16.0	25.0	25.0	30.0	32.0	30.0	26.0
25	25.0	14.0	10.0	11.0	15.0	15.0	25.0	25.0	28.0	32.0	30.0	21.0
26	25.0	13.0	10.0	13.0	17.0	15.0	24.0	25.0	29.0	32.0	31.0	24.0
27	25.0	11.0	10.0	13.0	17.0	16.0	24.0	25.0	30.0	32.0	30.0	28.0
28	25.0	12.0	10.0	14.0	17.0	17.0	24.0	25.0	30.0	32.0	30.0	28.0
29	25.0	10.0	10.0	15.0		17.0	24.0	25.0	30.0	32.0	30.0	28.0
30	25.0	11.0	10.0	16.0		19.0	24.0	25.0	30.0	31.0	30.0	28.0
31	25.0		11.0	14.0		20.0		25.0		31.0	30.0	
MAX	25.0	20.0	19.0	16.0	17.0	20.0	28.0	26.0	30.0	32.0	32.0	32.0
MIN	24.0	10.0	10.0	9.0	8.0	15.0	20.0	23.0	27.0	27.0	29.0	24.0

MISSISSIPPI RIVER DELTA

07385790 CHARENTON DRAINAGE CANAL NEAR BALDWIN, LA (CE 64450) -- Continued

CHLORIDE. DISSOLVED (MG/L), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

					•	CL DAIL.						
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	35	45	35	48	42	500	88	34	34	30	44
2	70	35	55	40	46	43	480	88	44	32	26	40
2	65	40	45	35	45	45	310	45	50	28	25	45
4	65	75	50	45	52	440	760	38	50	26	25	38
5	70	40	80	45	55	180	760	36	51	22	28	34
	, ,											
6	70	55	120	45	44	85	200	50	50	27	26	40
7	70	45	120	80	41	100	150	64	46	25	31	46
8	50	70	1000	40	42	41	100	72	96	22	30	32
9	50	75	1300	40	41	38	100	61	58	26	32	38
10	50	70	200	45	40	42	140	73	56	25	31	44
11	45	120	50	40	35	40	96	71	36	25	29	44
12	40	95	50	40	40	46	98	64	35	25	29	60
13	45		40	40	40	39	99	62	42	31	28	58
14	55		45	40	34	36	96	64	28	28	29	48
15	65		40	100	37	40	88	64	26	28	33	50
16	100		45	100	40	40	110	72	29	33	38	34
17	380		40	45	33	40	85	74	30	23	36	35
18	850		40	45	49	32	51	84	32	24	33	36
19	850	100	50	40	32	36	50	85	30	25	34	36
20	850	85	40	40	34	36	64	55	24	28	29	50
21	70	90	50	40	34	34	62	62	22	55	31	59
22	75	90	45	45	41	29	98	48	24	25	38	50
23	70	65	40	40	34	36	40	46	32	27	40	50
24	60	55	85	54	36	34	55	50	25	30	38	46
25	85	85	40	77	34	38	85	49	28	33	40	44
26	90	80	30	80	35	36	66	46	24	25	38	42
27	85	55	35	78	44	32	96	37	26	31	50	42
28	55	55	40	94	46	61	92	60	26	25	46	46
29		50	40	99		76	100	51	26	26	44	41
30	75	35	35	100		490	44	55	26	27	43	44
31	65		40	48		500		56		26	44	
MAX	850	120	1300	100	55	500	760	88	96	34	50	60
MIN	40	35	30	35	32	29	40	36	55	55	25	32
0.00												

LOCATION.--Lat 29°57'04", long 92°09'22", on line between lots 60 and 61, T.12 S., R.3 E., Vermilion Parish, Hydrologic Unit 08080103, at bridge on State Highway 82 at Perry, 2.0 mi (3.2 km) south of Abbeville.

DRAINAGE AREA. -- Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD. -- October 1978 to current year (gage heights only). Unpublished gage-height records, August 1960 to September 1978, available in files of Baton Rouge district office.

REVISED RECORDS .-- WDR LA 80-3: 1979.

GAGE. -- Water-stage recorder. Datum of gage is 2.95 ft (0.899 m) below National Geodetic Vertical Datum of 1929.

REMARKS. -- Gage height affected by tide at all stages.

EXTREMES FOR PERIOD OF RECORD. -- Maximum and minimum gage heights not determined.

EXTREMES FOR CURRENT YEAR. -- Maximum gage height, 9.33 ft (2.844 m) June 11; minimum not determined.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 INSTANTANEOUS OBSERVATIONS AT 0800 APR JUL AUG SEP DAY OCT NOV DEC JAN FEB MAR MAY JUN 4.90 4.74 4.44 4.00 3.91 3.59 4.93 3.76 4.60 3.94 4.44 ------3.52 4.35 4.44 4.70 4.22 4.41 3.00 2.87 3.59 4.91 5.25 4.30 5.60 ... 4.90 2.57 4.08 3 3.60 4.25 3.41 5.64 6.05 4.94 --4.61 4.29 4.41 3.84 3.80 3.98 3.13 4.20 4.52 3.95 7.30 5.00 4.84 4.31 5 4.20 3.35 6.94 3.56 3.02 6.50 7.44 6.07 4.65 6 3.44 3.98 4.41 4.61 4.81 5.77 4.54 3.88 4.80 5.26 6.09 4.61 3.72 4.21 3.50 4.29 ---5.04 3.91 4.50 5.59 4.74 4.20 4.64 4.94 4.21 8 ---4.49 4.13 4.78 5.21 3.57 3.92 4.67 4.44 4.90 4.02 10 4.20 3.95 4.50 3.26 4.06 5.20 5.18 4.40 4.41 3.20 4.91 2.90 4.00 3.16 4.51 8.19 5.06 3.51 11 3.90 4.41 ---4.86 2.21 2.73 4.18 4.09 8.70 5.16 12 3.40 4.71 4.25 3.43 ---4.13 2.90 3.76 4.40 4.80 7.60 4.93 4.65 13 4.00 5.54 3.69 5.84 3.64 3.49 3.34 3.73 4.58 5.05 6.80 4.54 4.65 4.75 4.29 15 4.82 5.01 3.80 3.44 3.45 4.02 4.13 3.84 6.17 4.28 5.04 5.78 - - -3.81 3.34 4.10 3.46 4.90 4.11 16 ... 5.78 3.77 3.25 2.47 4.00 4.03 4.81 5.04 17 5.25 5.48 3.20 5.10 2.84 2.95 5.54 4.40 3.70 2.86 4.17 4.30 4.92 18 4.24 3.53 1.82 4.73 4.88 4.43 3.44 4.08 7.13 3.41 ---4.65 2.78 3.40 20 4.80 3.61 2.61 4.20 3.50 2.66 4.26 4.15 3.15 2.71 3.95 4.76 3.58 3.00 4.07 3.33 5.19 21 3.21 4.56 ---3.50 4.00 4.39 3.66 4.09 3.23 4.89 22 4.32 4.05 3.64 4.60 ---4.74 4.73 3.44 2.54 1.58 4.50 4.04 3.94 ---4.41 6.48 ------4.88 4.44 3.47 2.50 2.54 3.57 4.10 4.00 4.11 ---4.24 4.40 4.00 25 2.80 4.45 3.81 2.89 2.89 3.61 26 4.50 6.75 3.80 3.74 3.32 4.46 ------5.42 6.51 3.85 3.70 3.58 3.53 4.28 3.72 4.73 4.48 ------28 4.86 4.56 3.14 3.60 3.70 4.30 4.31 4.00 4.80 4.52 ---4.75 4.59 3.27 4.82 29 2.50 4.25 ---5.46 4.28 3.74 ---4.89 4.95 ---4.65 30 2.78 2.94 5.01 4.07 4.21 4.94 ------2.98 3.21 3.09 31 ---5.17 ---4.60 MEAN 4.26 4.54 3.90 3.47 3.90 3.78 4.26 ---5.19 2.21 6.94 7.30 8.70 MAX 7.13 6.75 5.21 5.64 6.05 1.54 1.58 3.02 2.78 6.09 2.86 MIN 2.84 2.50

295010092080100 VERMILION RIVER (NEAR BANKER) NEAR HENRY, LA (CE 67875)

LOCATION.--Lat 29°50'10", long 92°08'01", T.14 S., R.3 E., Vermilion Parish, Hydrologic Unit 08080103, 4.6 mi (7.4 km) southwest of Henry.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1978 to January 1981 (discontinued).

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND. BIO- CHEM- ICAL. 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM. FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT												
30	1235	5380	7.6	15	60	<1.0	10.8	45	1.1	K60	K50	590
20	1202	18600	7.7	5	15	<1.0	11.2	95	1.6		K10	2100
12 JAN	1454	6120	7.4	5	30	<1.0	10.6	33	1.1	100	K100	670
22	1105	14300	7.2	5	15	<1.0	11.8	650	1.6	K15	<4	1600
DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS. RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN; NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
ост												
30	540	54	110	910	39	45	230	1700	145	•11	.01	.12
20	2000	150	410	3500	140	64	950	6300	53	.01	.00	.01
DEC 12	600	53	130	1000	39	66	270	1900	67	•49	• 05	.54
22	1600	100	330	2500	86	52	650	4700	33	.00	•01	.01
DATE	NITRO- GEN:AM- MONIA + URGANIC DIS: (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TUTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRU- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
OCT												
30	1.1	.22	2	1	0	0	1	0	0	0	6	3
20	.74	.07	0	0	0	0	0	0	30	0	6	3
DEC 12	1.0	.13	3	0	0	<1	0	2	20	0	7	3
JAN 22	.77	.03	0	0	Ü	0	0	0	50	0	5	2

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

295010092080100 VERMILION RIVER (NEAR BANKER) NEAR HENRY, LA (CE 67875)--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON, DIS- SOLVED (UG/L AS FE)	RE ER (L	AD. OTAL CCOV- RABLE IG/L PB)	LEA DI SOL (UG AS	D, 5- VED ∕L	ERA (UG	AL OV-	MERCURY DIS- SOLVED (UG/L AS HG)	RE EF	CKEL, DTAL ECOV- RABLE JG/L NI)	D1 S0	S- LVED IG/L	SEL NIU TOT (UG AS	M,	SOL	M. S- VED	REC ERA (UC	ABLE	ZINC DIS SOLV (UG/ AS Z	ED L	CARBON+ ORGANIC TOTAL (MG/L AS C)
OCT 30	20		5		1		. 1	. 0		9		1		0		0		30		10	
20	70		33		3		. 0	.0		2		1.		0		0		30		30	6.3
12	20		7		2		• 0	.1		2		0		0		0		50		9	16
22	40		5		1		• 1	.0		4		0		0		U		20		20	8.1
DAT OCT 30. NOV 20. DEC 12. JAN 22.		AL	PHENO (UG/	LS	UIL A GREAS TOTA RECO GRAV METR (MG/	E, V. I-	PCB, TOTA (UG/L	TI LE POI CHI TO) (UG.	PH- HA- NES, LY- LOR. TAL /L) .0 <.1 <.1	ALDR) TOTA (UG, <(000 001	CHLOR DANF, TOTAL (UG/L) .0 <.1 <.1		DDD. TOTAL (UG/L .000 <.000 <.000	00	DDE. TOTAL (UG/L .00 <.00 <.00	0 1 1	DDT, TOTAL (UG/L .00 <.00 <.00	0 1 1	۲.	01 01 03
DAT	TOT	RIN	ENDO SULFA TOTA (UG/	N• L	ENDRI TOTA (UG/	L	ETHIO IOTA (UG/	N. CH	PTA- LOR, TAL G/L)	HEPT CHL(EPOX) TOTA (UGA	DE AL	LINDAN TOTAL (UG/L		MALA- THION TOTAL (UG/L	١,	METH- OXY- CHLOR TOTAL (UG/L	,	METHY PARA- THION TOTAL (UG/L	,	METH TRI THIO TOTA (UG/	- N, L
OCT 30.		000	. 0	00	. 0	00		00	.000	. (000	.00	0	. (0.0	. 0	0	.0	0		00
NOV 20.		001	<.0		<.0				.001		001	<.00		<.0		<.0		<.0		۷.	
DEC 12.	4.5	001	<.0		<.0				.001	<,(001	<.00	1	<.0		<.0		<.0		۷.	
JAN 22.		001	<.0	01	<.0	01			.001	<.(001	<.00	1	<.0		<.0		<.0		۷.	
DAT	TO	PEX.	PARA THIO TOTA (UG/	N • L	PER THAN TOTA (UG/	E L	TOX APHEN TOTA (UG/	E TH	TAL RI- ION G/L)	2,4- TOTA (UGA	L	2, 4-0 TOTAL (UG/L)		2,4,5- 101AL (UG/L		SILVEX TOTAL (UG/L		CHLOR- PHYTO PLANK TUN CHROMO FLUORO (UG/L	- C	HLUR PHYT PLAN TON HROM LUOR (UG/	0- K- 0 OM
OCT 30. NOV		.00		0 υ		00		0	.00		01	.0	0	• 0	0	• 0	0	12.8		• 0	0 0
20. DEC	<	.01	۷.	01	٠,	01	<.	1 .	<.01	- 3	01	. 0	0	• 0	0 0	• 0	0	4.19		• 0	00
12. JAN	<	.01	٠.	01	<.	01	<.	1	<.01		80	. 0	0	• 0	1	.0	0	3.87		• 0	0 0
22.	<	.01	٠,	01	٠,	01	<.	1	<.01	<,	01	<.0	1	<.0	1	• 0	0	8.20		• 0	00

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

294150092055000 VERMILION BAY AT REDFISH POINT, NEAR HENRY, LA (CE 96118)

LOCATION.--Lat $29^{\circ}41'50"$, long $92^{\circ}05'50"$, T.15 S., R.3 E., Vermilion Parish, Hydorlogic Unit 08080103, 12.9 mi (20.8 km) south-southwest of Henry.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1978 to January 1981 (discontinued).

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND. BIO- CHEM- ICAL. 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS, PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT												
30	1305	4620	7.3	10	12	<1.0	8.4	55	1.2	K380	K40	490
20	1135	424	7.5	40	10	<1.0	2.8	47	5.3		K35	80
12 JAN	1515	392	7.0	40	45	<1.0	5.2	84	2.4			61
22	1045	1530	6.9	75	100	<1.0	8.8	57	2.2	1200	120	170
DATE	HARD- NFSS+ NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN: NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NOZ+NO3 TOTAL (MG/L AS N)
30	460	46	92	760	32	36	210	1400	257	.02	.01	.03
NOV	16	19	7.9	46	5.9	64	24	76	27	.10	.11	.21
DEC	10	19										
12 JAN	13	16	5.1	48	5.2	48	25	78	51	.19	.01	.20
22	120	25	25	240	9.5	47	68	410	59	•56	.07	.63
	NITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L	PHOS- PHORUS, TOTAL (MG/L	ARSENIC TOTAL (UG/L	ARSENIC DIS- SOLVED (UG/L	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L	BERYL- LIUM, DIS- SOLVED (UG/L	CADMIUM TOTAL RECOV- ERABLE (UG/L	CADMIUM DIS- SOLVED (UG/L)	CHRO- MIUM. TOTAL RECOV- ERABLE (UG/L	CHRO- MIUM. HEXA- VALENT. DIS. (UG/L)	COPPER. TOTAL RECOV- ERABLE (UG/L	COPPER. DIS- SOLVED
DATE	AS N)	AS P)	AS AS)	AS AS)	AS BE)	AS BE)	AS CD)	AS CD)	AS CR)	AS CR)	AS CU)	AS CU)
OCT 30	1.4	.23	2	0	0	0	1	0	0	0	6	3
NOV	1.3	.09	2	2	0	<1	0	<1	0	0	7	4
DEC 12	1.1	.00	1	0	0	0	0	0	20	0	5	2
JAN 22	2.2	.29	2	1	0	<1	0	<1	10	0	9	3

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

294150092055000 VERMILION BAY AT REDFISH POINT, NEAR HENRY, LA (CE 96118) -- Continued

DATE	IRON. DIS- SOLVED (UG/L AS FE)	TOTAL RECOVERABL (UG/L AS PE	- DE SO	AD. T DIS- R DLVED E	RCURY OTAL ECOV- RABLE UG/L (S HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICK DIS SOL (UG AS	VED TO	ELE- ! IUM; OTAL ! UG/L	NIUM; (DIS- SOLVED !	DIUM, DIS- SOLVED (UG/L	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 30	30		7	2	•1	• 0	12		2	0	0		40	20
NOV 20	380		5	0	.0	.0	9		3	0	0	6.0	10	4
DEC 12	20			2			3		0				40	
JAN			2		• 1	• 0				0	0			20
22	60		1	0	•2	•1	7		0	0	0		20	9
DATE	CARBON. ORGANIC TOTAL (MG/L AS C)	CYANIC TOTAL (MG/L AS CN	PHE	GR T R NOLS G	L AND EASE, OTAL ECOV. GRAVI- DETRIC MG/L)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDR TOT (UG	IN D				DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)
ост	177					10000	.,	10.15		10.2	1.17.21			
30		. (0	3	0	<.1	<.1	<.	001	<.1	<.001	<.001	<.001	<.01
20	15	.0	0	1	0	.2	<.1	<.	001	<.1	<.001	<.001	<.001	.04
DEC 12	8.5	.0	0	0	0	<.1	<.1	<.	001	<.1	<.001	<.001	<.001	.01
JAN 22	14	.0	0	3	0	<.1	<.1	<.	001	<.1	<.001	<.001	<.001	.05
DA	TE (U	TAL T	NDO- LFAN• OTAL UG/L)	ENDRIN, TOTAL (UG/L)	TOTA	L TOT	TA- CHL OR, EPOX AL TOT	IDE	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	TOTAL	TOTAL	TR THI TOT	ON,
	<	.001	<.001	<.001	٠.	01 <.	001 <.	.001	<.001	<.01	<.0	<.0	1 <	.01
		.002	<.001	<.001	<.	01 <.	001 <.	.001	<.001	<.01	<.0	<.0	1 <	.01
	<	.001	<.001	<.001	٠.	01 <.	001 <.	.001	<,001	<.01	<.0	1 <.0	1 <	.01
JAN 2S		.002	<.001	<.001	٠.	01 <.	001 <.	.001	<.001	<.01	<.0	1 <.0	1 <	.01
DA	T	REX. 1	ARA- HION+ OTAL UG/L)	PER- THANE TOTAL (UG/L)	TOX APHEN TOTA (UG/	E TR L THI	I- 2,4	TAL	2, 4-DP TOTAL (UG/L)	2,4,5- TOTAL (UG/L	TOTAL	FLUORO	- PHY - PLA TO CHRO M FLUO	TO- NK- NO
0CT 30		<.01	<.01	<.01	<	.1 <	.01	.01	.00	.0	.0	0 20.8		000
NOV		<.01	<.01	<.01			.01	.18	.00		.0		1.	29
DEC		<.01	<.01	<.01			.01	.02	.00		0 .0	0 2.28		000
JAN		<.01	<.01	<.01			.01	.03	<.01					000
		1 5 1 1 1 1	Control of											

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

294110091533000 VERMILION BAY AT CYPREMORT POINT, NEAR LOUISA, LA (CE 88850)

LOCATION.--Lat 29°41'10", long 91°53'30", R.6 E., T.15 S., Iberia Parish, Hydrologic Unit 08080103, at Cypremort Point, 13 mi (21 km) south of Avery Island and 8 mi (13 km) southwest of Louisa.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1974 to January 1981 (discontinued).

PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: October 1977 to current year. CHLORIDE: October 1974 to current year.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: Maximum daily, 30.0°C Sept. 25-30, 1980, July 17, 18, 21-23, 1981; minimum daily, 1.0°C Feb. 1, 1979. CHLORIDE: Maximum daily, 8,500 mg/L Nov. 3, 1980; minimum, 100 mg/L Feb. 28, 1979.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURES: Maximum daily, 30.0°C July 17, 18, 21-23; minimum daily, 6.0°C Jan. 13, 16, 17. CHLORIDE: Maximum daily, 8,500 mg/L Nov. 3; minimum daily, 1,200 mg/L June 15.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND. BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./	HARD- NESS (MG/L AS CACO3)
OCT	1320	12300	7.6	10	30	<1.0	9.6	64	.7	K15	<5	1300
30												
20	1117	19100	7.5	5	4.0	<1.0	10.6	100	1.5		<5	2200
12 JAN	1534	14500	7.6	5	3.0	<1.0	11.8	150	2.1	350	160	1600
22	1030	15100	6.9	10	5.0	<1.0	11.6	210	1.8	< 5	<4	1900
DATE	HARD- NESS; NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)
ост						113	923	1000				0.1
30	1300	110	260	2300	80	46	480	4100	73	•00	.01	.01
20	2100	150	440	3800	150	54	960	6700	15	.00	.00	.00
12	1500	120	320	2800	99	90	700	4900	27	.21	.01	.55
JAN 22	1900	170	370	2800	94	43	770	5200	23	•00	• 00	.00
DATE	NITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM. DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM. TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER. TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)
ост							0	0	20	0	8	6
30	1.2	.31	19	1	0	0						
20	1.1	.09	0	1	10	0	1	0	30	0	7	4
DEC 12	.91	.07	. 1	0	10	0	0	0	20	0	3	4
JAN 22	.84	.06	0	1	10	0	0	0	50	0	8	2

 $^{^{&}lt;}$ Actual value is known to be less than the value shown. K Results based on colony count outside the acceptable range (non-ideal count).

294110091533000 VERMILION BAY AT CYPREMORT POINT, NEAR LOUISA, LA (CE 88850)--Continued

DATE	IRO DI SOL (UG AS	S- VED /L	ERA (UG	AL OV-	SOL (U	AD, IS- VED G/L PB)	REG ER	CURY TAL COV- ABLE G/L HG)	MERCUR DIS- SOLVE (UG/L AS HO	P F	CKEL, TOTAL RECOV= ERABLE (UG/L AS NI)	SO (U	KEL, S- UVED IG/L	TO (U	LE- UM, TAL G/L SE)	SELE NIUM DIS SOLV (UG/ AS	1. 5- /ED /L	ZINC TOTA RECO ERAB (UG/ AS Z	L S OV- SLE S	ZINC DIS SOLV (UG/ AS Z	ED L	ARBON, RGANIC TOTAL (MG/L AS C)
OCT 30		40		8		5		.2		. 0	8		6		0		0		20		10	
NOV 20		50		4		0		.0		.1	3		0		0		0		30		20	7.1
DEC													0									
12 JAN		40		3		0		• 0		.0	3				0		0		40		40	5.7
22		30		3		0		•1	2.	. 1	3		0		0		0				20	7.3
DAT		CYANI TOTA (MG/ AS C	L	PHENO		OIL GREAS TOT RECO GRAS METO (MG	SE, AL OV. VI- RIC	PC 101 (UG/	B C	NAPH- THA- ENES: POLY- CHLOR: TOTAL (UG/L)	ALDR		CHLO DANE TOTA (UG/	Ļ	DDD: TOTAL (UG/L		DDE + TOTAL (UG/L		DDT, TOTAL (UG/L		DI- ZINON TOTAL (UG/L	
OCT 30.			00		6		0	<	.1	<.1	1 <.	001	<	. 1	<.00	1	<.00	1	<.00	1	. () 1
NOV 20.			00		0		0	<	.1	۷.	1 <.	001	<	. 1	<.00	1	<.00	1	<.00	1	<.(01
DEC 12.			00		1		0	<	. 1	<.	٠.	001	<	. 1	<.00	1	<.00	1	<.00	1	. (1
JAN 22.			01		1		0	<	. 1	<.	٠.	001	<	. 1	<.00	1	<.00	1	<.00	1	<.()1
DAT	ſE	DI- ELDR TOTA (UG/	IN	ENDO SULFA TOTA (UG/	N,	ENDR TOT (UG	AL	ETHI TOT (UG	ON. C	HEPTA- CHLOR- FOTAL (UG/L)	EPOX	IDE	LINDA TOTA (UG/	L	MALA- THION TOTAL	١,	METH- OXY- CHLOR TOTAL (UG/L	•	METHY PARA- THION TOTAL (UG/L		METHY TRI- THION TOTAL (UG/L	· •
ост		. 0	0.1	- 0	0.1		0.01			<.001	,	001	<.0	0.1	,	11	. 0		0	1	<.(11
NOV		<.0		<.0		<.(.01				<.0			01	<.0		• 0			
DEC	• • •	<.0		<.0		<.(.01	<.001		001			<.(<.0		<.0		<.0	
JAN		<.0		<.0			001	<	.01	<.001		001	<.0		<.0		<.0		<.0		<.(
22.		<.0	01	<.0	01	<.(001	<	.01	<.001	<,	001	<.0	01	<.(01	<.0	1	<.0	1	<.(01
DAT	TE	MIRE TOT (UG/	AL	PARA THIO TOTA (UG/	N,	PE THA TOT (UG	NE AL	TO APHE TOT (UG	NE .	TOTAL TRI- THION (UG/L	2,4 TO	-D. [AL G/L)	2, 4- TOTA (UG/L	L	2,4,5 TOTAL (UG/L	L	SILVEX TOTAL (UG/L	(, (CHLOR- PHYTO PLANK TON CHROMO FLUORO (UG/L	- - M F	PHYTO PLANI TON CHROMI FLUORI	O- <- OM
ост											,	10		0.0	-01	00	. (0.0	3.50		.0	0.0
NOV			.01		01		.01		<.1	<.0		.10		00		00	. (1.99		.0	
DEC			.01		01		.01		<.1	<.0		.01				00		0	4.37		.0	
JAN			.01		01		.01		<.1	<.0		.04		00					4.13		.0	
22	•••	<.	01	<,	01	<	.01		<.1	<.0	1	.02	٧,	01	٠.	01	• (0.0	7.13		• 0	

< Actual value is known to be less than the value shown.

MAX

SEP

27.5 27.0 27.5 27.0 27.0

27.5 28.0 27.5 28.0 27.0

26.0 27.0 27.0 27.0

	2941	100915330	00 VERMI	LION BAY	AT CYPREM	MORT POINT	r, NEAR LO	DUISA, LA	(CE 88850)Contin	ued	
			TEMPERATU	RE. WATER		. WATER Y	EAR OCTOB	ER 1980 T	U SEPTEMBE	ER 1981		
					O,	ACE DATE						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	NUL	JUL	AUG	
1		13.0		8.5	12.0		21.0	23.0	26,5	27.5	29.0	
2		14.0		9.0	12.0		21.0	23.0	27.5	27.0	29.0	
3		14.0		10.0	9.0		20.0	22.0	27.0		29.0	
4		16.0	14.0	10.0	8.5	18.0	21.0	22.0		27.0	29.0	
5		16.0	14.0	9.5	8.5	18.0	20.0	22.0	26.0	27.0	29.0	
6		16.0	16.0	10.0	8.5	17.0	19.0	22.0	26.5	26.5	29.0	
7		17.0	15.0	9.5	8.5	17.0	19.0	22.0	27.0	26.5	28.5	
8		17.0	17.0	8.5	8.5	16.0	20.0	22.0	27.5	27.5	28.5	
9		17.0	16.0	8.5	8.5	16.0	20.0	23.0	28.0	28.0	28.5	
10		17.0	13.0	8.0	8.5	15.0	20.0	23.0	28.0	29.0	28.5	
11	0.55	17.0	10.5	8.0	8.5	15.0	20.0	23.0	27.0	28.0	28.5	
12	22.0	17.0	11.0	6.5		15.0	20.0	23.0	27.5	28.0	28.5	
13	21.0	14.0	11.5	6.0		14.0	22.0	23.0	27.0	28.0	27.5	
14	21.0	15.0	12.0	7.0		14.0	23.0	23.5	27.0	29.0	22.5	
15	21.0	16.0	12.0	6.5		14.0	23.0	23.5	27.5	29.0	29.0	
16	21.0	17.0	13.0	6.0		15.0	23.0	24.0	27.5	29.0	29.5	
17	22.0	15.0	13.0	6.0		15.0	23.0	24.5	28.0	30.0	29.5	
18	22.0	13.0	13.0	6.5		15.0	24.0	24.5	28.5	30.0	29.5	

		1.5									
16	21.0	17.0	13.0	6.0	 15.0	23.0	24.0	27.5	29.0	29.5	26.0
17	22.0	15.0	13.0	6.0	 15.0	23.0	24.5	28.0	30.0	29.5	25.0
18	22.0	13.0	13.0	6.5	 15.0	24.0	24.5	28.5	30.0	29.5	25.5
19	22.0	10.0	14.0	7.0	 14.0	24.0	25.0	28.5	29.0	29.0	
50	55.0	10.0	10.0	7.0	 14.0	24.0	21.5	28.5	29.5	29.0	55.0
21	22.0	11.0	8.0	7.0	 14.0	24.0	21.0	28.5	30.0	28.5	22.0
55	22.0	12.0	9.0	7.0	 14.0	24.0	55.0	29.0	30.0	28.0	22.0
23	22.0	12.0	10.0	8.0	 14.0	24.0	23.0	28.0	30.0	28.0	23.0
24	22.0	12.0	8.5		 13.5	24.0	23.0	28.0	29.5	27.5	
25		9.0	7.5	9.5	 14.0	23.0	24.0	28.0	29.5	27.5	24.0
26		9.0	7.0	9.5	 15.0	23.0	24.0	28.0	29.5	26.5	24.0
27		9.0	7.0	9.5	 15.0	23.0	25.0	27.0	29.5	27.0	24.0
28		9.0	7.5	9.5	 17.0	23.0	25.5		29.5	27.0	25.5
29		9.0	7.5	9.5	 18.0	23.0	26.0	27.5	29.0	27.0	25.0
30		9.0	8.0	9.5	 18.5	23.0		27.5	29.0	27.0	25.0
31			9.0	9.5	 19.0				29.0	27.0	
MAX		17.0	17.0	10.0	 19.0	24.0	26.0	29.0	30.0	29.5	28.0
MIN		9.0	7.0	6.0	 13.5	19.0	21.0	26.0	26.5	22.5	22.0

			CHLORIDE +	DISSOLVED		WATER YEA	AR OCTOBE	R 1980 TO	SEPTEMBE	R 1981		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3400	4700		5200	5000		3500	4000	3600	2200	2700	2800
2	4600	6800		5100	5300		4900	4100	3500	1900	2500	2800
3	5100	8500		5400	5200	4800	5000	3500	3300		2800	2900
4	5300	6700		5400	5400	4200	3400	4200	3500	5500	2700	2600
5	5300	6400	7100	5300	5200	4900	4500	4000	3200	2300	2600	2900
6	5200	5400	6300	6200	5000	5100	5700	3300	3200	1900	2800	2500
7	5100	6800	5700	4900	5400	5000	4200	4100	3600	2000	2700	2500
8	5200	6900		4900	5100	5000	4600	4300	3600	2100	2800	3000
9	5200	6400	6100	4800	5300	4900	4800	4500	3700	1900	2700	3000
10		6500	6900	5200	5100	5000	5400	4200	2000	1900	3000	2700
11	5200	6700	6200	5300	5000	5100	4800	4000	3000	1900	2800	2800
12	5200	6700		4800	5200	5100	4300	4400	3200	1700	2800	2900
13	5200			5000	4900	5200	3800	4500	2000	1800	2800	2800
14	5200			4900	5200	5200	2900	3100	1300	1700	2800	
15	5100		5300	5000	4700	5000	4400	3400	1200	1900	2800	2500
16	4900			4900	5000	5100	4300	3500	1400	1600	2800	2900
17	4900	5200		4800	5100	5100	3100	3100	1600	1900	2500	3000
18	5000	5200	5600	4900	4700	5000	2500	3600	2200	1800	3000	2700
19	5000	6200	5100	4500	4900	5100	3600	3100	2100	1700	2500	
50	5000		5800	4900	5200	4800	3300	3900	5500	1800	2500	2600
21	5000	5700	5300	4900	5200	5100	2900	3800	2200	2200	2500	2800
55	5100	5800	5700		5200	4700	3600	4100	2100	1800	2500	3000
23	4800	5200	6200	5100	5300	5400	3700	2700	2200	1800	2500	3000
24	4700	5300	5300	5100	5100	5000	5400	3900	2200	2300	2400	
25		5200	5100	5500	5800	5400	4400	3500	2200	3600	2500	2900
26		6400	5200	5200	7400	6100	4500	2200	2100	3500	2500	3100
27		4800	5400	5500	6600	3300	4300	2800	2100	3300	2700	3100
28		4700	5200	5400	5000	5900	4100	3400		3300	2700	3000
29			5400	5200		4900	4400	3700	2300	2700	2700	3100
30			5400	5400		3200	3900		2200	3200	2700	3100
31	4400		5100	5100		6000				2800	2700	
MAX	5300	8500	7100	6200	7400	6100	5700	4500	3700	3600	3000	3100
MIN	3400	4700	5100	4500	4700	3200	2500	2200	1200	1600	2400	2500
- F A 15	3.00			1,47,5	71.78		12022	77.7		7,7,7	71.77	

294700092114000 INTRACOASTAL WATERWAY AT VERMILION LOCK (EAST), NEAR INTRACOASTAL CITY, LA (CE 76720)

LOCATION.--Lat 29°47'00", long 92°11'40", T.14 S., R.3 E., Vermilion Parish, Hydrologic Unit 08080103, on north bank at east end of lock and 2.3 mi (3.7 km) west of Intracoastal City.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: October 1976 to October 1978, December 1979 to current year. CHLORIDE: October 1974 to October 1978, December 1979 to current year.

COOPERATION .-- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 35.0°C July 26, Aug. 1, 1977; minimum daily, 5.0°C Feb. 12, 1981.
CHLORIDE: Maximum daily, 7,700 mg/L June 4, 1981; minimum daily, 8.0 mg/L July 13, 14, 1975.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURES: Maximum daily, 28.0°C July 20; minimum daily, 5.0°C Feb. 12. CHLORIDE: Maximum daily, 7,700 mg/L June 4; minimum daily, 33 mg/L July 10.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BIO- ITY (NIU)	SETTLE- ABLF MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED, (COLS, PER 100 ML)	COLI- FORM, FECAL. 0.7 UM-MF (COLS./
0CT 30	1255	2830	1.3		10	120	<1.0	8.0	40	.6	K280	K140
20	1153	10700	7.4		10	35	<1.0	8.3	94	1.3	12	220
DEC 12	1502	2670	7.1		15	180	<1.0	8.4	60	1.3		700
JAN 22	1100	1800	7.0		30	300	<1.0	10.3	12	1.4	K240	110
JUN 09	1800	3570	6.6	30.5	70	100	<1.0	4.0	70	5.0	K950	120
11	1500	563	6.0	30.5	70	65	<1.0	4.6	62	.8	K300000	290
DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS; NONCAR- RONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM. DIS- SOLVED (MG/L AS NA)	POTAS- SIUM. DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACU3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE. DIS- SOLVED (MG/L AS CL)	SOLIDS. RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN: NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)
30 NOV	310	270	35	55	460	20	39	110	850	191	•30	.02
20	1200	1100	98	220	1900	72	56	490	3400	49	.02	.00
DEC 12	300	270	30	54	440	19	30	130	750	322	.39	.03
JAN 22	180	150	23	30	280	11	30	73	490	672	.33	.07
JUN 09	250	210	36	40	740	23	49	190	1100	214	.16	.05
AUG 11	68	39	11	9.9	78	4.8	29	20	140	92	.06	.03
DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN: AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM. DIS- SOLVFD (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CH)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER. TOTAL RECOV- ERABLE (UG/L AS CU)
OCT	22	1.0	.20	2	0	10	0	3	0	0	U	5
30	.32		.04	0	0	0	0	0	0	20	0	7
20	.02	.98					0	0	0	10	0	9
12 JAN	.42	1.0	-11	2	2	0		0		50	0	
JUN 22	.40			5	1	0	<1		<1			18
09 AUG	.21	1.9	.32	4	4	0	0	2	1	30	0	12
11	.09	2.1	.10	2	1	0	<1	0	<1	10	0	9

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

294700092114000 INTRACOASTAL WATERWAY AT VERMILION LOCK (EAST), NEAR INTRACOASTAL CITY, LA (CE 76720) -- Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	COPPER. DIS- SOLVED (UG/L AS CU)	IRON. DIS- SOLVER (UG/L AS FE)	(06/	AL LE DV- D SLE SO 'L (U	AD, IS- LVED G/L PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL TOTAL RECOV ERABL (UG/L AS N	/- DI	CKEL. IS- DLVED JG/L S NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC+ DIS- SOLVED (UG/L AS ZN)
0CT 30	3	20		7	0	.2	.0		1	2	0	0	20	20
NOV	2	60)	3	0	.0	. 0		3	1	0	0		40
12	3	150)	А	1	.1	• 0		0	0	0	0	60	20
32	4	60)	25	0	.2	.1		16	0	0	0	60	10
09	7	160)	0	3	•1	.1		11	3	0	0		60
11	8	120)	6	3	.2	• 0		2	3	0	0	30	29
DATE	CARBON+ ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHEN	GRE TO RE DLS GR ME	AND ASE. TAL COV. TAVI- TRIC	PCR, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRII TOTAL (UG/I	, D	HLUR- ANE, DTAL G/L)	DDD+ TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT; TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)
OCT	22	0.0		0	0	<.1	<.1	< . 0	1	<.1	<.001	<.001	<.001	.01
30 NOV 20	8.8	.00		0	0	<.1	<.1	<.0		<.1	<.001	<.001	<.001	.01
DEC 12	14	.00		0	0	<.1	<.1	<.0		<.1	<.001	<.001	<.001	.01
NAL	19	.00		2	0	<.1	<.1	<.0		<.1	<.001	<.001	<.001	<.01
JUN 09	19	.00		2	0	<.1	<.1	<.0		<.1	<.001	<.001	<.001	.01
AUG 11	13	.00		0	0	<.1	<.1	<.0	01	<.1	<.001	<.001	<.001	.04
DA	TE (UC	RIN SUL	NDO- LFAN, E DTAL UG/L)	ENDRIN. TOTAL (UG/L)	ETHIO: TOTAL (UG/I	N. CHL L TOT	OR, EPOX	CIDE L	INDANE TOTAL (UG/L)	MALA THIO TOTA (UG/	ON, CHL	Y- PARA OR, THICAL TOTAL	A- TF DN, THI AL TOI	THYL RI- ION, TAL
	<.	001	<.001	<.001	<.	01 <	001 <.	.001	<.001		.01 <	.01	.02	.01
	<	.001	<.001	<.001	۲.	01 <.	001 <.	001	<.001	<.	.01 <	•01 <	.01	.01
		001	<.001	<.001	<.	01 <.	001 <.	.001	<.001	,	.02 <	• 01 <	.01	.01
	<	.001	<.001	< .001	۷.	01 <.	001 <.	.001	<.001	<.	.01 <	.01 <	.01	.01
	<.	001	<.001	<.001	٠.	01 <.	001 <.	.001	<.001		01 <	•01	.01	.01
		.001	<.001	<.001	٧.	01 <.	001 <.	.001	<.001	<.	.01 <	.01 <	.01	.01
DA	T	REX. TO	ARA- HION, DTAL UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENI TOTAL (UGZ)	E + TH	ON TO	TAL	, 4-DP TOTAL JG/L)	2.4.5 1014 (UG/	L TOT	AL FLUOR	TO- PHY NK- PLA N TO MO CHRO ROM FLUC	(TO- ANK- ON OMO
oct								0.0	0.0		0.0	00		000
NOA		.01	<.01	<.01			.01	.00	.00		00	.00 6.0		.000
DEC		.01	<.01	<.01			. 01	.00	.00		00			
VAL		.01	<.01	<.01			. 01	.00	.00			.00 1.0		.000
JUN		.01	<.01	<.01				.01	<.01			.01 2.6		.000
AUG		.01	<.01	<.01				• 01	<.01			.01 3.6		.000
11	•••	.01	<.01	<.01	<	.1 <	.01	.01	<.01	٠,	· 01 <	.01 5.2	. 8	.000

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA 143

294700	0092114000	INTRAC	DASTAL WATE	RWAY AT		LOCK (EAS	ST), NEAR I	NTRACOA	STAL CITY,	LA (CE	76720)Co	ontinued
			TEMPERATUR	E. WATER		, WATER YE	EAR OCTOBER	1980 T	O SEPTEMBE	R 1981		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	26.0 25.0 25.0 24.0 24.0			6.5 6.5 7.0 7.0 7.0	11.0 9.0 8.5 8.0 9.0	14.0 16.0 15.0 15.0	18.0 16.0 18.0 15.0	19.0 19.0 19.0 19.0 19.0	19.0 23.0 23.0 23.0 22.0	23.0 24.0 24.0 24.0 22.0	26.0 25.0 26.0	23.0
6 7 8 9 10	23.0 23.0 22.0		14.0 14.0 14.0	7.0 7.0 7.0 7.0	7.0 6.0 8.0 10.0 10.0	15.0 15.0 12.0 12.0	18.0 18.0 17.0 17.0	19.0 19.0 19.0 20.0	22.0 23.0 24.0 24.0 24.0	22.0 22.0 23.0 24.0 25.0	25.0 24.0 24.0 25.0	22.0 22.0 23.0 23.0
11 12 13 14 15	===		10.0	7.0	8.0 5.0 6.0 9.0 7.0	===	18.0 18.0 22.0 22.0 21.0	19.0 20.0 19.0 19.0 20.0	21.0 22.0 24.0 24.0 24.0	25.0 24.0 25.0 24.0 26.0	24.0 24.0 25.0 26.0 25.5	19.5 22.5 19.0 23.0 19.5
16 17 18 19 20			10.0 10.0 10.0 10.0	7.0 6.0 7.0 7.0	8.0 7.0 10.0 10.0 11.0	=======================================	21.0 22.0 23.0 22.0 22.0	20.0 20.0 21.0 21.0 17.0	23.0 23.0 23.0 23.0 23.0	25.0 27.0 28.0	25.0 25.0 25.0 25.0	20.0 19.0 18.0 18.0
21 22 23 24 25	===		10.0 9.0 9.0 9.0 8.0	7.0 7.0 7.0 6.0 8.0	12.0 11.5 11.0 12.0 12.0	13.5 14.0	21.0 20.0 20.0 21.0 20.0	19.0 20.0 19.0 17.0 21.0	23.0 23.0 23.0 23.0	26.0 27.0 27.0 27.0 25.0	21.0 22.0 22.0 22.0 21.0	17.0
26 27 28 29 30 31	===		8.0 7.0 7.0 7.0 7.0 7.0	8.0 10.0 9.0 9.5 11.0 10.5	12.0 12.0 12.0	14.0 14.0 14.0 14.0 15.5 20.0	18.0 20.0 18.0 21.0 21.0	17.0 22.0 22.0 19.0 20.0	23.0 23.0 23.0 23.0 23.0	24.0 24.0 26.0 26.0 26.0	24.0	
MAX			14.0 7.0	11.0	12.0 5.0		23.0 15.0	22.0 17.0	24.0 19.0	28.0 22.0	26.0 21.0	23.0 17.0
			CHLORIDE,	DISSOLVE		WATER YEA	AR OCTOBER	1980 TO	SEPTEMBER	1981		
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4200 3800 4000 4200 3500	1200 1200 1200 1200	1000 1000 600 1000 1100	820 730 1000 1600 1400	3000 2900 2500 2900 2900	1400 1600 2200 2800 3000	5800 5500 5300 6900	5900 5900 6000 5600 4200	3600 5200 5400 7700 4400	290 230 200 200 120	320 210 	1800 1300 1000
6 7 8 9 10	3900 3500 3600 3600 3400	1000 1800 1900 2000 2000	1000 1000 1000 1000 1000	1600 1400 1700 2300	2700 2300 2000 1400 1500	2700 2800 3100 2600 2600	5900 5800 6900 7100	4600 4100 4300 3700 3600	3800 2800 1500 1400	43 52 52 46 33	130 130 160 160	1000 1100 1000 1200
11 12 13 14 15	3300 3000 3000 3000 3000	2200 2300 2700 4800 4500	1000 700 600	2300 2100 2300 2100	1300 820 330 180 160	2500 2000 2100 2100 2100	6900 7200 7000 7000 7100	3900 3600 3500 3000 3200	240 150 170 130 110	69 64 65 300 270	160 120 250 150 120	1100 1200 1100 1200 1200
16 17 18 19 20	3300 3800 4400 3800 3400	3800 4900 4000 3300 3200	400 400 500 800 600	2100 1700 1400 1200 1600	160 170 170 160 110	2100 2200 1300 1500 1400	6800 7000 7100 6700 6800	3100 3600 3700 3800 3700	120 220 330 390 440	360 350 320	430 330 140 220	1100 1000 970 870
21 22 23 24 25	2800 2400 1900 2000 1500	3000 3200 3000 2300 2400	500 500 500 1000 600	1200 1200 1100 1400 1600	91 98 120 120 120	2000 2200 1300 1100 1300	7100 6400 6600 6200 6200	3800 4000 4200 4100 4200	420 450 450 390	340 350 370 400 520	310 830 890 1100	890 860
26 27 28 29 30 31	1500 1600 1600 1300 1200 1000	2100 2000 1800 1500 1100	1200 2000 2000 1800 1500 1200	2400 2600 2800 2900 3000 2900	180 860 1100	1300 1700 2400 4600 6900 6000	6500 6300 6300 6300 6400	4200 4100 4200 4100 3500	420 390 260 260 680	700 640 560	=======================================	===

 MAX

MISSISSIPPI RIVER DELTA

294705092115300 INTRACOASTAL WATERWAY AT VERMILION LOCK (WEST), NEAR INTRACOASTAL CITY, LA (CE 76800)

LOCATION.--Lat 29°47'05", long 92°11'53", T.14 S., R.3 E., Vermilion Parish, Hydrologic Unit 08080103, on north bank at west end of lock and 2.5 mi (4.0 km) west of Intracoastal City.

PERIOD OF RECORD. -- Water years 1975 to January 1981 (discontinued).

PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: October 1976 to October 1978, December 1979 to current year. CHLORIDE: October 1974 to October 1978, December 1979 to current year.

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 35.0°C July 26, Aug. 1, 1977; minimum daily, 4.0°C Jan. 20-22, 1981.
CHLORIDE: Maximum daily, 8,200 mg/L Apr. 23, 1981; minimum daily, 3.0 mg/L July 15, 1975.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURES: Maximum daily, 25.0°C July 22; minimum daily, 4.0°C Jan. 20-22. CHLORIDE: Maximum daily, 8,200 mg/L Apr. 23; minimum daily 39 mg/L July 6.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- RID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND. BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS, PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT												
30	1245	2850	7.1	15	120	<1.0	8.2	37	1.0	K180	K40	310
20	1147	9120	7.7	10	75	<1.0	8.0	110	1.2		K85	990
DEC 12	1506	2910	7.3	30	70	<1.0	8.8	69	1.0	K100	96	300
22	1055	6310	7.1	20	160	<1.0	9.9	160	1.7	640	K260	810
DATE OCT 30 NOV 20 DEC 12 JAN 22	HARD- NESS+ NONCAR- BONATE (MG/L CACO3) 270 940 260	CALCIUM DIS- SOLVED (MG/L AS CA) 35 85 30	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) 54 190 54	SODIUM, DIS- SOLVED (MG/L AS NA) 460 1600 490	POTAS- SIUM-, DIS- SOLVED (MG/L AS K) 20 62 16	ALKA- LINITY (MG/L AS CACO3) 38 52 36	SULFATE DIS- SOLVED (MG/L AS SO4) 110 420 110 280	CHLO- RIDE- DIS- SOLVED (MG/L AS CL) 850 2800 840 2100	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L) 145 92 162 264	NITRO- GEN. NITRATE TOTAL (MG/L AS N) .30 .10	NITRO- GEN. NITRITE TOTAL (MG/L AS N) .02 .00	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) .32 .10
DATE	NITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL (UG/L AS BE)	RERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)
OCT 30	1.2	.19	1	1	0	0	0	0	0	0	10	3
NOV NOV	.76	.24	1	0	0	0	0	1	20	0	7	3
12	1.1	.07	1	1	0	0	0	0	20	0	5	3
22	1.3	.22	2	0	0	0	0	0	50	0	9	3

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

294705092115300 INTRACOASTAL WATERWAY AT VERMILION LOCK (WEST), NEAR INTRACOASTAL CITY, LA (CE 76800)--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON, DIS- SOLVEC (UG/L AS FE)) T(EAD. OTAL UG/L S PR)	LEAD, DIS- SOLVED (UG/L AS PB)	MERC TOT (UG	TAL	ERCURY DIS- SOLVED (UG/L AS HG)	(0)	KEL. TAL G/L	ICKEL , DIS- SOLVED (UG/L AS NI)) T	ELE- M IUM, OTAL S UG/L	OLVED 1	INC. OTAL UG/L	ZINC. DIS- SOLVED (UG/L AS ZN)	CARBON+ ORGANIC TOTAL (MG/L AS C)
OCT 30	100)	5	2		•2	• 0		9	()	0	0	30	20	
S0	50)	5	1		• 0	. 0		5	1	ı	0	0	20	20	7.8
12 JAN	50)	4	1		• 1	• 1		7	4		0	0	30	30	15
22	10)	10	0		• 1	• 1		10	()	0	0	30	20	15
DAT	T (ANIDE DTAL MG/L G CN)	PHENOL (UG/L	MET	SE, AL OV. VI- RIC	PCB TOTAL (UG/L)	CHL	A- ES, LY- OR.	ALDRIN TOTAL (UG/L	, DA	HLOR- ANE + DT AL JG/L)	DDD. TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L	TOT	ON.
OCT 30.		.00		0	0	<.1		<.1	<.00	1	<.1	<.001	<.001	<.00	1	.01
NOV DEC		.00		1	0	<.1		<.1	<.00	1	<.1	<.001	<.001	<.00	1	.01
12. JAN	•••	.00		1	0	<.1		<.1	<.00	1	<.1	<.001	<.001	<.00	1 <	.01
22.	•••	.00		0	0	<.1		<.1	<.00	1	<.1	<.001	<.001	<.00	1 <	.01
DAT	EL	OI- DRIN OTAL	ENDO- SULFAN TOTAL (UG/L	. ENDR	AL	ETHION TOTAL (UG/L	TOT	OR.	HEPTA CHLOR EPOXID TOTAL (UG/L	E LIN	DANE TAL JG/L)	MALA- THION, TOTAL (UG/L)	TOTAL	TOTAL	* THI	HYL I- ON, AL /L)
30.		.001	<.00	1 <.	001	<.0	1 <.	001	<.00	1 <	.001	<.01	<.01	<.0	1 <	.01
NOV		.001	<.00	1 <.	001	<.0	1 <.	001	<.00	1 <	.001	<.01	<.01	<.0	1 <	.01
DEC 12. JAN		.001	<.00	1 <.	001	<.0	1 <.	001	<.00	1 <	.001	.01	<.01	<.0	1 <	.01
22.	••	.001	<.00	1 <.	001	<.0	1 <.	001	<.00	1 <	.001	<,01	<.01	<.0	1 <	•01
DAT		REX, OTAL JG/L)	PARA- THION TOTAL (UG/L	THA	NE AL	TOX- APHENE TOTAL (UG/L	, TR THI	I -	2,4-0 TOTAL (UG/L	TO	4-0P)TAL 6/L)	2,4,5-1 FOTAL (UG/L)	TOTAL	PHYTO PLANK TON CHROMO FLUORO	- PLA TO CHRO M FLUO	TO- NK- N MO ROM
OCT 30.		<.01	<.0	1 <	.01	<.	1 <	.01	. 0	0	.00	.00	.00	6.02		000
NOV 20.		<.01	<.0		.01	<.		.01	.0		.00	.00				000
DEC 12.		<.01	<.0	1 <	.01	<.	1 <	.01	• 0	0	.00	.00	.00	1.59		000
JAN 22.		<.01	<.0	1 <	.01	<.	1 <	.01	<.0	1	<.01	<.01	<.01	7.60		000

< Actual value is known to be less than the value shown.

294705092115300 INTRACOASTAL WATERWAY AT VERMILION LOCK (WEST), NEAR INTRACOASTAL CITY, LA (CE 76800)--Continued

1	1 2 3 4 5 6 7 8 9	NOV DEC 15.0 15.0 15.0 15.0 14.0 14.0	6.0 6.0 6.0 6.0 6.0 6.0	9.0 8.0 7.0 6.0	MAR 12.0 13.0 12.0 12.0	APR 16.0 16.0 16.0	MAY 19.0 19.0 19.0	JUN 20.0 21.0	JUL 23.0 21.0	AUG 22.0 21.0	SEP
1	1 2 3 4 5 6 7 8 9	15.0 15.0 15.0 15.0 14.0 14.0 14.0	6.0 6.0 6.0 6.0 6.0	9.0 8.0 7.0 6.0	12.0 13.0 12.0 12.0	16.0 16.0 16.0	19.0 19.0 19.0	20.0	23.0	22.0	
2 15.0 6.0 8.0 13.0 16.0 19.0 21.0 2	2 3 4 5 6 7 8 9	15.0 15.0 15.0 15.0 15.0 14.0 14.0	6.0 6.0 6.0 6.0 6.0	8.0 7.0 6.0 6.0	13.0 12.0 12.0	16.0 16.0	19.0	21.0	21.0		
3	3 4 5 6 7 8 9	15.0 15.0 15.0 14.0 14.0 14.0	6.0 6.0 6.0	7.0 6.0 6.0	12.0	16.0	19.0				20 0
5 15.0 6.0 6.0 12.0 17.0 19.0 20.0 21.0 2	5 7 8 9	14.0 14.0 14.0	6.0	6.0		17.0	10 0		21.0	20.0	20.0 19.0
6 14.0 6.0 6.0 12.0 17.0 17.0 21.0 19.0 21.0 7.0 14.0 6.0 6.0 12.0 17.0 17.0 21.0 19.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21	6 7 8 9	14.0 14.0 14.0	6.0		12.0	17 ()				22.0	18.0
14.0	7 8 9 10	14.0	0.0							22.0	20.0
B	8 9 10	14.0	- 6.0							20.0	20.0
10	10	14.()	6.0	6.0	12.0	17.0	17.0	21.0	21.0	21.0	19.0
12	1.1		0.0							21.0	19.0
12	11	14.0	6.0	5.0	11.0	16.0	17.0	21.0	19.0	21.0	19.0
14										21.0	19.0
15										22.0	19.0
17	15	9.0		7.0						23.0	20.0
18										23.0	20.0
20										23.0	20.0 19.0
21										24.0	19.0
22											
23										21.0	20.0
25 9.0 5.0 8.0 9.0 13.0 19.0 18.0 22.0 20.0 21 26 9.0 5.0 8.0 11.0 12.0 17.0 17.0 22.0 20.0 21 27 8.0 5.0 10.0 12.5 17.0 18.0 22.0 20.0 21 28 9.0 5.0 8.0 10.0 13.0 19.0 19.0 22.0 22.0 22.0 29 29 9.0 5.0 8.0 14.0 18.0 19.0 22.0 22.0 22.0 30 30 9.0 5.0 9.0 15.0 19.0 20.0 22.0 22.0 31 31 5.0 8.0 16.0 20.0 21.0 21.0 20.0 22.0 22.0 22.0 22.0 22.0 22.0	23	8.0 9.0	5.0	10.0	12.0	18.0	16.5	22.0	23.0	22.0	20.0
27 8.0 5.0 10.0 12.5 17.0 18.0 22.0 20.0 21 28 9.0 5.0 7.0 10.0 13.0 18.0 19.0 22.0 22.0 21 29 9.0 5.0 8.0 14.0 18.0 19.0 22.0 22.0 21 30 9.0 5.0 9.0 15.0 19.0 20.0 22.0 22.0 23 31 5.0 8.0 16.0 20.0 21.0 MAX 15.0 9.0 11.0 16.0 19.0 20.0 22.0 25.0 26 MIN 8.0 4.0 5.0 11.0 16.0 19.0 20.0 22.0 25.0 26 CPLORIDE, DISSOLVED (MG/L), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL A 1 4500 700 900 700 3000 1500 5100 5100 3800 190 4 2 4000 1100 800 550 2900 1800 5200 6000 3700 170 1 3 4000 1200 500 500 2500 2100 5300 5400 3600 120 2 4 3700 1200 800 1600 2800 2300 6900 6200 3400 85 22 4 3700 1200 800 1600 2800 2300 6900 6200 3400 85 22 5 3800 800 800 800 1400 2800 2900 5000 5100 3500 100 2500 6000 3500 5100 3500 100 2500 6000 3500 100 2500 6000 3500 5100 3500 100 2500 6000 3500 6000 3500 100 2500 6000 3500 100 2500 6000 3500 5100 3500 100 2500 6000 3500 5100 3500 100 2500 6000 3500 5100 3500 100 2500 6000 3500 5100 3500 100 2500 6000 3500 5100 3500 100 2500 6000 6000 3500 5100 3500 100 2500 6000 6000 3500 5100 3500 100 2500 6000 6000 3500 5100 3500 100 2500 6000 6000 6000 3500 5100 3500 100 2500 6000 6000 6000 3500 6000 6000 6000 6										22.0	20.0
27 8.0 5.0 10.0 12.5 17.0 18.0 22.0 20.0 21.0 28 9.0 5.0 7.0 10.0 13.0 18.0 19.0 22.0 22.0 22.0 29 9.0 5.0 8.0 14.0 18.0 19.0 22.0 22.0 22.0 30 9.0 5.0 9.0 15.0 19.0 20.0 22.0 22.0 21.0 19.0 20.0 22.0 22.0 22.0 23.0 19.0 20.0 22.0 22.0 22.0 22.0 22.0 22.0 2	26	9.0 5.0	8.0	11.0	12.0	17.0	17.0	22.0	20.0	21.0	20.0
29 30 9.0 5.0 8.0 14.0 18.0 19.0 22.0 22.0 22.0 31 5.0 8.0 15.0 19.0 20.0 22.0 22.0 22.0 31 31 5.0 8.0 16.0 20.0 21.0 -		8.0 5.0		10.0	12.5	17.0	18.0	22.0	20.0	21.0	20.0
30										21.0	20.0
MAX MIN	30	9.0 5.0	9.0		15.0	19.0	20.0	25.0	22.0		20.0
MIN 8.0 4.0 5.0 11.0 16.0 16.0 19.0 19.0 20 CHLORIDE, DISSOLVED (MG/L), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL A 1 4500 700 900 700 3000 1500 5100 5100 3800 190 4 2 4000 1100 800 550 2900 1800 5200 6000 3700 170 1 3 4000 1200 500 500 2500 2100 5300 5400 3600 120 2 4 3700 1200 800 1600 2800 2300 6900 6200 3400 85 2 5 3800 800 800 800 1400 2800 2900 5000 5100 3500 100 2 6 3600 900 1100 2500 2700 5300 5100 3800 39											
DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL A 1 4500 700 900 700 3000 1500 5100 5100 3800 190 4 2 4000 1100 800 550 2900 1800 5200 6000 3700 170 1 3 4000 1200 500 500 2500 2100 5300 5400 3600 120 2 4 3700 1200 800 1600 2800 2300 6900 6200 3400 85 5 3800 800 800 800 1400 2800 2900 5000 5100 3500 100 2 6 3600 900 1100 2500 2700 5300 5100 3800 39		0 0								24.0	21.0
1 4500 700 900 700 3000 1500 5100 3800 190 4 2 4000 1100 800 550 2900 1800 5200 6000 3700 170 1 3 4000 1200 500 500 2500 2100 5300 5400 3600 120 2 4 3700 1200 800 1600 2800 2300 6900 6200 3400 85 2 5 3800 800 800 800 1400 2800 2900 5000 5100 3500 100 2 6 3600 900 1100 2500 2700 5300 5100 3800 39		CHFORID	E, DISSOLVED			OCTOBER	1980 TO	SEPTEMBER	1981		
2 4000 1100 800 550 2900 1800 5200 6000 3700 170 1 3 4000 1200 500 500 2500 2100 5300 5400 3600 120 2 4 3700 1200 800 1600 2800 2300 6900 6200 3400 85 2 5 3800 800 800 1400 2800 2900 5000 5100 3500 100 2 6 3600 900 1100 2500 2700 5300 5100 3800 39	AY OCT	NOV DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
3 4000 1200 500 500 2500 2100 5300 5400 3600 120 24 4 3700 1200 800 1600 2800 2300 6900 6200 3400 85 25 5 3800 800 800 1400 2800 2900 5000 5100 3500 100 28 6 3600 900 1100 2500 2700 5300 5100 3800 39						5100				420	
4 3700 1200 800 1600 2800 2300 6900 6200 3400 85 2 5 3800 800 800 1400 2800 2900 5000 5100 3500 100 2 6 3600 900 1100 2500 2700 5300 5100 3800 39										130 240	1900 1600
6 3600 900 1100 2500 2700 5300 5100 3800 39	4 3700	1200 800	1600	2800	2300	6900	6200	3400	85	280	1500
	5 3800	800 800	1400	2800	2900	5000	5100	3500	100	280	1000
										78 85	980 980
8 3400 1900 1000 1200 1700 2900 6000 4600 3800 44 1		1900 1000	1200		2900		4600		44	120	940
										200	990 1100
										160 97	1000
13 3000 2400 850 2300 920 2800 7900 3400 990 170 1	13 3000									150	1100
										190 180	960
16 2700 350 1800 150 2900 7600 3000 100 360 2	16 2700	350	1800	150	2900	7600	3000	100	360	290	1300
										400 260	1100
										550	940
	18 4000 19 3200	3100 600	1100	150	1200		3600	450	340	90	870
	19 3200	3.5	1100							130	860 940
	19 3200 20 3000 21 2400	2800 450			1000					740	910
24 1600 2600 800 560 96 1100 5500 3800 430 440 9	19 3200 20 3000 21 2400 22 2100 23 1500	2800 450 2800 250 2900 500	840 700	500	1300						
	19 3200 20 3000 21 2400 22 2100 23 1500 24 1600	2800 450 2800 250 2900 500 2600 800	840 700 560	96 96	1300 1100	5500	3800	430		960 1100	880 760
27 1500 2000 750 2800 690 1500 6700 4000 360 790 16	19 3200 20 3000 21 2400 22 2100 23 1500 24 1600 25 1500	2800 450 2800 250 2900 500 2600 800 2300 450	840 700 560 500	200 96 94	1300 1100 1100	5500 6000	3800 4100	430 410	180	1100	760
28 1500 1700 1800 2800 1200 2400 4800 4100 390 760 17	19 3200 20 3000 21 2400 22 2100 23 1500 24 1600 25 1500 26 1500 27 1500	2800 450 2800 250 2900 500 2600 800 2300 450 2200 800 2000 750	840 700 560 500 800 2800	200 96 94 76 690	1300 1100 1100 1100 1500	5500 6000 5100 6700	3800 4100 4200 4000	430 410 400 360	180 660 790	1100 1100 1600	760 950 920
(7 1600 1600 1000 4300 Min 4100 100 NAO	19 3200 20 3000 21 2400 22 2100 23 1500 24 1600 25 1500 26 1500 27 1500 28 1500	2800 450 2800 250 2900 500 2600 800 2300 450 2200 800 2000 750 1700 1800	840 700 560 500 800 2800 2800	200 96 94 76 690 1200	1300 1100 1100 1100 1500 2400	5500 6000 5100 6700 4800	3800 4100 4200 4000 4100	430 410 400 360 390	180 660 790 760	1100 1100 1600 1700	760 950 920 930
30 1100 1000 1400 3000 5500 5600 4100 460 500 -	19 3200 20 3000 21 2400 22 2100 23 1500 24 1600 25 1500 26 1500 27 1500 28 1500 29 1200 30 1100	2800 450 2800 250 2900 500 2600 800 2300 450 2200 800 2000 750 1700 1800 1200 1600 1000 1400	840 700 560 500 800 2800 2800 3000 3000	200 96 94 76 690 1200	1300 1100 1100 1100 1500 2400 4300 5500	5500 6000 5100 6700 4800 5500 5600	3800 4100 4200 4000 4100 4100 4100	430 410 400 360 390 300 460	180 660 790 760 640 500	1100 1100 1600 1700	760 950 920 930 940 1400
30 1100 1000 1400 3000 5500 5600 4100 460 500 -	19 3200 20 3000 21 2400 22 2100 23 1500 24 1600 25 1500 26 1500 27 1500 28 1500 29 1200 30 1100	2800 450 2800 250 2900 500 2600 800 2300 450 2200 800 2000 750 1700 1800 1200 1600 1000 1400	840 700 560 500 800 2800 2800 3000 3000	200 96 94 76 690 1200	1300 1100 1100 1100 1500 2400 4300 5500	5500 6000 5100 6700 4800 5500 5600	3800 4100 4200 4000 4100 4100 4100	430 410 400 360 390 300 460	180 660 790 760 640 500	1100 1100 1600 1700	760 950 920 930 940

MISSISSIPPI RIVER DELTA

294528092154801 SCHOONER BAYOU (INLAND WATERWAY) EAST OF CONTROL STRUCTURE, NEAR FORKED ISLAND, LA

LOCATION.--Lat 29°45'28", long 92°15'48", T.15 S., R.2 E., Vermilion Parish, Hydrologic Unit 08080202, at southeast fender of structure and 5.4 mi (8.7 km) southeast of Forked Island.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: October 1976 to October 1978, December 1979 to current year. CHLORIDE: October 1974 to October 1978, December 1979 to current year.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey. Corps of Engineers station 76600.

EXTREMES FOR PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: Maximum daily, 32.0°C July 19-24, 1980, July 19, 21, 23, 1981; minimum daily, 1.0°C Jan. 10, 1977.

CHLORIDE: Maximum daily, 8,400 mg/L Apr. 4, 1981; minimum daily, 25 mg/L June 9, 1980.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURES: Maximum daily, 32.0°C July 19, 21, 23; minimum daily, 6.0°C Jan. 18. CHLORIDE: Maximum daily, 8,400 mg/L Apr. 4; minimum daily, 160 mg/L Aug. 1.

FEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FER	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			9.0	9.0	12.0	15.0	22.5	25.5	26.0	28.0	30.0	26.0
2			9.0	9.0	11.0	17.0	20.0	25.0	27.0	28.0	28.0	25.0
2			12.0	9.0	10.0	17.0	22.0	25.0	27.0	27.0	30.5	27.0
4			14.0	11.0	10.0	18.0	22.5	25.0	27.0	27.0	28.0	27.5
5			13.0	10.0	9.5	17.0	20.0	24.0	27.0	27.0	29.0	25.0
6			14.0	11.0	10.0	15.0	20.0	22.0	27.0	26.0	29.0	28.0
7		18.0	17.0	11.0	11.0		21.0	22.0	27.0	26.5	29.0	23.0
8		19.0	19.0	10.0	10.0	16.0	22.0	22.0	27.0	27.0	27.5	26.0
9		19.0	18.0	12.0	10.0	16.0	22.0	23.0	27.0	28.5	29.5	29.0
10		19.0	15.0	10.0	10.5	15.0	21.5	23.0	27.0	28.0	28.0	27.5
11		17.0	12.0	8.5	9.5	12.0	23.0	23.0	27.0	27.0	28.0	24.0
12		17.0	13.0	10.0	7.0	16.0	24.0	21.0	27.0	25.0	27.0	27.5
13		18.0	12.0	8.0	9.0	17.0	24.0	23.0	27.5	27.5	28.0	24.0
14		18.0	13.0	10.0	7.5	16.0	23.0	24.0	27.5	28.0	24.5	24.0
15		18.0	13.0	9.0	7.0	17.0	25.0	22.0	27.5	29.0	26.0	25.0
16		18.0	13.0	10.0	9.5	15.0	25.0	25.0	27.5	29.0	26.0	23.0
17		15.0	14.0	10.0	10.0	16.0	25.0	23.0	27.5	30.0	27.0	22.0
18		15.0	14.0	6.0	12.0	19.0	25.0	25.0	27.5	30.0	27.0	24.5
19		12.0	14.0	9.0	12.0	16.0	24.0	25.0	27.5	32.0	31.0	22.5
20		12.0	14.0	9.0	16.0	15.0	24.0	55.0	27.5	30.0	27.0	24.0
21		12.0	14.0	7.5	16.0	20.0	26.0	21.0	27.5	32.0	26.0	24.0
22		12.0	14.0		17.0	21.0	26.0	22.0	27.5	30.0	30.0	23.0
23		12.0	14.0	9.0	16.0	15.0	25.0	23.0	27.5	32.0	30.0	21.0
24		12.0	14.0	8.5	15.0	15.5	24.0	24.0	27.5		29.0	25.0
25		10.0	10.0	10.0	15.0	16.0	24.0	25.0	27.5		25.0	26.0
26		13.0	10.0	11.0	15.0	16.5	24.0	24.0	27.0		28.0	24.0
27		10.0	10.0	11.0	17.0	16.0	24.0	25.0	27.5		26.0	24.0
28		9.0	10.0	11.0	17.0	18.0	24.0	27.0	28.5		28.5	25.0
29		9.0	10.0	11.0		20.0	25.0	28.0	29.0		27.5	27.0
30		9.0	10.0	15.5		20.0	25.0	26.0	28.0		27.0	27.0
31			10.0	12.0		20.0		29.0			28.0	
MAX		19.0	19.0	15.5	17.0	21.0	26.0	29.0	29.0	32.0	31.0	29.0
MIN		9.0	9.0	6.0	7.0	12.0	20.0	21.0	26.0	25.0	24.5	21.0

148 MISSISSIPPI RIVER DELTA

MIN

294528092154801 SCHOONER BAYOU (INLAND WATERWAY) EAST OF CONTROL STRUCTURE, NEAR FORKED ISLAND, LA --Continued

CHLORIDE. DISSOLVED (MG/L). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY SEP DAY APR JUN JUL OCT NOV DEC JAN FER MAR MAY AUG ----------------------------------MAX

293316092182000 FRESHWATER CANAL AT FRESHWATER BAYOU LOCK (NORTH), NEAR FORKED ISLAND, LA (CE 76592)

LOCATION.--Lat 29°33'16", long 92°18'20", T.16 S., R.2 E., Vermilion Parish, Hydrologic Unit 08080202, on north side of lock and 18.9 mi (30.4 km) south of Forked Island.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD .-- Water years 1975 to current year.

PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: October 1976 to October 1978, December 1979 to current year. CHLORIDE: October 1974 to October 1978, December 1979 to current year.

COOPERATION .-- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: Maximum daily, 32.0°C Aug. 4, 24, 1978; minimum daily, 5.0°C Jan. 20, 1978, Jan. 24, Feb. 12, 1981.
CHLORIDE: Maximum daily, 17,000 mg/L Mar. 31, 1981; minimum daily, 280 mg/L May 15, 1975.

EXTREMES FOR CURRENT YEAR . --

WATER TEMPERATURES: Maximum daily, 31.5°C July 30; minimum daily, 5.0°C Jan. 24, Feb. 12. CHLORIDE: Maximum daily, 17,000 mg/L Mar. 31; minimum daily, 2,800 mg/L July 2.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 UNCE-DAILY

				•	OL DAIL.						
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
26.0	15.0	12.0	11.0	10.0	14.0	22.0	25.5	24.0	28.5	30.0	28.0
26.0	17.0	12.0	11.0	7.0	14.0	21.0	26.0	28.0	28.5	29.5	28.0
25.0	14.0	12.0	11.0	7.0	14.0	21.0	25.0	24.0	28.5	29.5	28.0
24.0	15.0	12.0	11.0	11.0	14.0	21.0	25.0	28.0	28.5	30.0	28.0
24.0	16.0	14.0	10.0	10.5	14.0	22.0	25.0	28.0	28.5	30.0	18.0
22.0	16.0	14.0	10.0	11.0	13.0	21.0	24.0	28.0	29.0		28.0
50.0	18.0	14.0	10.0	11.0	13.0	21.0	24.0	28.0	27.0		29.0
21.0	19.0	14.0	10.0	11.5	13.0	21.0	23.0	28.0	29.0	26.5	29.0
22.0	20.0	14.0	9.0	12.0	13.0	21.0	24.0	27.0	28.0	26.5	28.0
25.0	21.0	14.0	9.0	11.0	12.0	55.0	24.0	29.0	30.0	27.5	28.0
22.0	20.0	16.0	9.0	6.0	16.0	23.0	0.55	29.0	29.0	30.0	27.0
55.0	18.0	16.0	9.0	5.0	16.0	23.0	23.0	26.5	30.0	29.0	28.0
23.0	17.0	16.0	9.0	9.5	17.0	23.0	24.0	27.5	30.0	29.0	28.0
23.0	20.0	16.0	6.0	8.0	17.0	24.0	24.0	28.0	28.5	30.0	26.0
23.0	21.0	16.0	6.0	10.0	17.0	24.0	24.0	28.5	30.0	30.5	28.0
23.0	19.0		10.0	9.0	17.0	24.0	24.0	28.5	29.0	30.0	27.0
											25.0
											24.0
											25.0
23.0	13.0	10.0	8.5	14.0	13.0	25.0	24.0	29.0	30.0	30.0	23.0
23.0	10.0	10.0	9.0	14.0	11.0	25.0	23.0	29.0	30.5	29.0	24.0
											25.0
											25.0
											24.0
18.0	10.0	8.0	6.0	14.0	12.0	20.0	25.0	29.0	30.0	29.0	26.0
19.0	14.0	8.0	8.0	14.0	12.0	20.0	25.0	29.0	29.0	26.0	26.0
											26.0
											27.0
											27.0
16.0	14.0	8.0				26.0		29.0		29.0	27.0
14.0	69 to 100		9.0		20.0		24.0		29.5	30.0	
26.0	21.0	16.0	13.0	16.0	20.0	26.0	26.0	29.5	31.5	30.5	29.0
14.0	10.0	8.0	5.0	5.0	11.0	20.0	55.0	24.0	26.5	26.0	18.0
	26.0 26.0 25.0 24.0 24.0 24.0 22.0 20.0 21.0 22.0 23.0 23.0 23.0 23.0 23.0 23.0 23	26.0 15.0 26.0 17.0 25.0 14.0 25.0 14.0 24.0 15.0 24.0 16.0 22.0 16.0 20.0 18.0 21.0 19.0 22.0 20.0 22.0 21.0 22.0 20.0 23.0 21.0 23.0 17.0 23.0 20.0 23.0 17.0 23.0 17.0 23.0 17.0 23.0 18.0 23.0 17.0 23.0 17.0 23.0 10.0	26.0 15.0 12.0 26.0 17.0 12.0 25.0 14.0 12.0 24.0 15.0 12.0 24.0 16.0 14.0 20.0 24.0 16.0 14.0 20.0 18.0 14.0 20.0 18.0 14.0 20.0 21.0 14.0 22.0 20.0 14.0 22.0 21.0 14.0 22.0 21.0 14.0 22.0 21.0 14.0 22.0 21.0 14.0 22.0 21.0 14.0 22.0 21.0 16.0 23.0 16.0 23.0 16.0 23.0 21.0 16.0 23.0 21.0 16.0 23.0 21.0 16.0 23.0 21.0 16.0 23.0 21.0 16.0 23.0 16.0 23.0 16.0 23.0 16.0 23.0 16.0 23.0 17.0 8.0 23.0 17.0 8.0 23.0 17.0 8.0 23.0 17.0 8.0 23.0 10.0 10.0 20.0 20.0 20.0 20.0 20.0 20	26.0 15.0 12.0 11.0 26.0 17.0 12.0 11.0 25.0 14.0 12.0 11.0 24.0 15.0 12.0 11.0 24.0 16.0 14.0 10.0 22.0 16.0 14.0 10.0 20.0 18.0 14.0 10.0 21.0 19.0 14.0 10.0 22.0 20.0 14.0 9.0 22.0 20.0 16.0 9.0 23.0 17.0 16.0 9.0 23.0 17.0 16.0 9.0 23.0 21.0 16.0 6.0 23.0 21.0 16.0 6.0 23.0 17.0 16.0 6.0 23.0 18.0 10.0 23.0 18.0 10.0 23.0 18.0 10.0 23.0 18.0 10.0 23.0 10.0 10.0 9.0 23.0 10.0 10.0 <td>OCT NOV DEC JAN FEB 26.0 15.0 12.0 11.0 10.0 26.0 17.0 12.0 11.0 7.0 25.0 14.0 12.0 11.0 7.0 24.0 15.0 12.0 11.0 11.0 24.0 16.0 14.0 10.0 10.5 22.0 16.0 14.0 10.0 11.0 20.0 18.0 14.0 10.0 11.0 21.0 19.0 14.0 10.0 11.5 22.0 20.0 14.0 10.0 11.5 22.0 21.0 14.0 9.0 12.0 22.0 21.0 14.0 9.0 12.0 22.0 21.0 14.0 9.0 5.0 23.0 17.0 16.0 9.0 5.0 23.0 17.0 16.0 9.0 9.5 23.0 21.0 16.0 6.0 10.0 <!--</td--><td>26.0 15.0 12.0 11.0 10.0 14.0 26.0 17.0 12.0 11.0 7.0 14.0 25.0 14.0 12.0 11.0 7.0 14.0 24.0 15.0 12.0 11.0 7.0 14.0 24.0 16.0 14.0 10.0 11.0 14.0 22.0 16.0 14.0 10.0 11.0 13.0 20.0 18.0 14.0 10.0 11.0 13.0 21.0 19.0 14.0 10.0 11.5 13.0 21.0 19.0 14.0 10.0 11.5 13.0 22.0 20.0 14.0 9.0 12.0 13.0 22.0 20.0 16.0 9.0 6.0 16.0 22.0 20.0 16.0 9.0 5.0 16.0 23.0 17.0 16.0 9.0 9.5 17.0 23.0 18.0 16.0 9.0 9.5 17.0 23.0 17.0 16.0 6.0 8.</td><td>OCT NOV DEC JAN FEB MAR APR 26.0 15.0 12.0 11.0 10.0 14.0 22.0 26.0 17.0 12.0 11.0 7.0 14.0 21.0 25.0 14.0 12.0 11.0 7.0 14.0 21.0 24.0 15.0 12.0 11.0 11.0 14.0 21.0 24.0 16.0 14.0 10.0 10.5 14.0 22.0 22.0 16.0 14.0 10.0 11.0 13.0 21.0 20.0 18.0 14.0 10.0 11.0 13.0 21.0 22.0 18.0 14.0 10.0 11.0 13.0 21.0 22.0 20.0 14.0 9.0 12.0 13.0 21.0 22.0 22.0 16.0 9.0 6.0 16.0 23.0 22.0 23.0 16.0 9.0 5.0 16.0 23</td><td>OCT NOV DEC JAN FEB MAR APR MAY 26.0 15.0 12.0 11.0 10.0 14.0 22.0 25.5 26.0 17.0 12.0 11.0 7.0 14.0 21.0 26.0 25.0 14.0 12.0 11.0 7.0 14.0 21.0 25.0 24.0 15.0 12.0 11.0 11.0 14.0 21.0 25.0 24.0 16.0 14.0 10.0 11.0 14.0 21.0 25.0 24.0 16.0 14.0 10.0 11.0 13.0 21.0 25.0 24.0 16.0 14.0 10.0 11.5 13.0 21.0 24.0 21.0 19.0 14.0 10.0 11.5 13.0 21.0 24.0 21.0 19.0 14.0 10.0 11.5 13.0 21.0 24.0 22.0 20.0 16.0 9.0</td><td>OCT NOV DEC JAN FEB MAR APR MAY JUN 26.0 15.0 12.0 11.0 10.0 14.0 22.0 25.5 24.0 26.0 17.0 12.0 11.0 7.0 14.0 21.0 26.0 28.0 25.0 14.0 12.0 11.0 11.0 14.0 21.0 25.0 24.0 24.0 16.0 14.0 10.0 10.5 14.0 21.0 25.0 28.0 24.0 16.0 14.0 10.0 11.0 14.0 22.0 25.0 28.0 20.0 18.0 14.0 10.0 11.0 13.0 21.0 24.0 28.0 21.0 19.0 14.0 10.0 11.5 13.0 21.0 24.0 28.0 22.0 20.0 14.0 9.0 12.0 13.0 21.0 24.0 28.0 22.0 20.0 16.0 9.0</td><td>OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 26.0 15.0 12.0 11.0 10.0 14.0 22.0 25.5 24.0 28.5 26.0 17.0 12.0 11.0 7.0 14.0 21.0 26.0 28.0 28.5 25.0 14.0 12.0 11.0 7.0 14.0 21.0 25.0 28.0 28.5 24.0 15.0 12.0 11.0 11.0 14.0 21.0 25.0 28.0 28.5 24.0 16.0 14.0 10.0 10.5 14.0 22.0 25.0 28.0 28.5 24.0 16.0 14.0 10.0 10.5 14.0 22.0 25.0 28.0 28.5 22.0 16.0 14.0 10.0 11.5 14.0 22.0 25.0 28.0 28.5 22.0 16.0 14.0 10.0 11.0 13.0 21.0 24.0 28.0 28.5 22.0 18.0 14.0 10.0 11.5 13.0 21.0 24.0 28.0 29.0 20.0 18.0 14.0 10.0 11.5 13.0 21.0 24.0 28.0 27.0 21.0 19.0 14.0 9.0 11.5 13.0 21.0 24.0 28.0 27.0 22.0 20.0 14.0 9.0 11.0 12.0 22.0 25.0 28.0 28.0 22.0 20.0 16.0 9.0 5.0 16.0 23.0 22.0 29.0 29.0 22.0 20.0 16.0 9.0 5.0 16.0 23.0 22.0 29.0 29.0 22.0 18.0 16.0 9.0 5.0 16.0 23.0 22.0 29.0 29.0 23.0 17.0 16.0 9.0 5.0 16.0 23.0 22.0 29.0 29.0 23.0 17.0 16.0 9.0 9.5 17.0 23.0 24.0 27.5 30.0 23.0 20.0 16.0 6.0 8.0 17.0 24.0 24.0 28.5 30.0 23.0 17.0 16.0 9.0 9.5 17.0 23.0 24.0 28.5 30.0 23.0 17.0 16.0 9.0 9.5 17.0 23.0 24.0 28.5 30.0 23.0 19.0 10.0 8.0 17.0 24.0 24.0 28.5 29.0 23.0 18.0 10.0 8.0 17.0 25.0 26.0 29.0 30.0 23.0 19.0 10.0 9.0 17.0 24.0 24.0 28.5 29.0 23.0 18.0 10.0 8.5 14.0 13.0 25.0 25.0 29.0 30.0 23.0 19.0 10.0 10.0 9.0 16.0 15.0 25.0 23.0 29.0 29.0 30.0 23.0 17.0 8.0 8.5 14.0 13.0 25.0 25.0 29.0 30.0 23.0 10.0 10.0 10.0 9.0 14.0 11.0 25.0 23.0 29.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 23.0 29.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 23.0 29.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 10.0 10.0 10.0 16.0 15.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 10.0 10.0 10.0 16.0 15.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 8.0 10.5 20.0 26.0 26.0 29.5 30.0 24.0 25.0 29.0 30.0 16.0 16.0 18.0 25.0 25.0 29.0 30.0 25.0 25.0 25.0 25.0 29.0 30.0 16.0 16.0 18.0 25.0 25.0 29.0 30.0</td><td>OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG 26.0 15.0 12.0 11.0 10.0 14.0 22.0 25.5 24.0 28.5 30.0 26.0 17.0 12.0 11.0 7.0 14.0 21.0 26.0 28.0 28.5 29.5 25.0 14.0 12.0 11.0 7.0 14.0 21.0 25.0 24.0 28.5 29.5 24.0 15.0 12.0 11.0 11.0 14.0 21.0 25.0 28.0 28.0 28.5 30.0 24.0 15.0 12.0 11.0 11.0 14.0 21.0 25.0 28.0 28.5 30.0 24.0 15.0 14.0 10.0 10.5 14.0 21.0 25.0 28.0 28.5 30.0 24.0 16.0 14.0 10.0 10.5 14.0 22.0 25.0 28.0 28.5 30.0 24.0 16.0 14.0 10.0 10.5 14.0 22.0 25.0 28.0 28.5 30.0 22.0 16.0 14.0 10.0 11.0 13.0 21.0 24.0 28.0 29.0 20.0 18.0 14.0 10.0 11.5 13.0 21.0 24.0 28.0 29.0 27.0 26.0 21.0 19.0 14.0 9.0 11.0 11.5 13.0 21.0 24.0 28.0 29.0 26.5 22.0 20.0 14.0 9.0 11.0 12.0 22.0 22.0 24.0 29.0 30.0 27.5 22.0 21.0 14.0 9.0 11.0 12.0 22.0 22.0 24.0 29.0 30.0 27.5 22.0 21.0 14.0 9.0 11.0 12.0 22.0 22.0 24.0 29.0 30.0 27.5 22.0 21.0 16.0 9.0 5.0 16.0 23.0 23.0 28.0 29.0 29.0 29.0 23.0 17.0 16.0 9.0 9.5 17.0 23.0 24.0 27.5 30.0 29.0 23.0 17.0 16.0 9.0 9.5 17.0 24.0 24.0 27.5 30.0 29.0 23.0 17.0 16.0 9.0 9.5 17.0 24.0 24.0 27.5 30.0 29.0 23.0 17.0 16.0 9.0 9.5 17.0 24.0 24.0 27.5 30.0 29.0 23.0 17.0 16.0 6.0 10.0 17.0 24.0 24.0 28.5 30.0 30.0 29.0 23.0 17.0 16.0 6.0 10.0 17.0 24.0 24.0 28.5 30.0 30.0 29.0 23.0 19.0 16.0 6.0 10.0 17.0 24.0 24.0 28.5 30.0 30.0 29.0 23.0 19.0 16.0 6.0 10.0 17.0 24.0 24.0 28.5 30.0 30.0 29.0 23.0 17.0 8.0 8.5 6.0 13.0 25.0 25.0 29.0 30.0 30.0 23.0 17.0 8.0 8.5 6.0 13.0 25.0 25.0 29.0 30.0 30.0 23.0 17.0 8.0 8.5 6.0 13.0 25.0 25.0 29.0 30.0 30.0 23.0 17.0 8.0 8.5 6.0 13.0 25.0 25.0 29.0 30.0 30.0 23.0 17.0 8.0 8.5 6.0 13.0 25.0 25.0 29.0 30.0 28.5 29.0 23.0 10.0 10.0 10.0 9.0 16.0 15.0 25.0 25.0 29.0 30.0 28.5 29.0 23.0 10.0 10.0 10.0 9.0 16.0 15.0 25.0 25.0 29.0 30.0 29.0 23.0 10.0 10.0 10.0 9.0 16.0 15.0 25.0 25.0 29.0 30.0 29.0 23.0 10.0 10.0 10.0 10.0 10.0 16.0 16.0 12.0 25.0 25.0 29.0 30.0 29.0 23.0 10.0 10.0 10.0 10.0 10.0 16.0 16.0 18.0 25.0 25.0 29.0 30.0 29.0 25.0 29.5 30.0 29.0 25.0 29.5 30.0 29.0 25.0 29.5 30.0 29.0 25.0 29.0 30.0 29.0 25.0 29.0 30.0 29.0 25.0 29.0 30.0</td></td>	OCT NOV DEC JAN FEB 26.0 15.0 12.0 11.0 10.0 26.0 17.0 12.0 11.0 7.0 25.0 14.0 12.0 11.0 7.0 24.0 15.0 12.0 11.0 11.0 24.0 16.0 14.0 10.0 10.5 22.0 16.0 14.0 10.0 11.0 20.0 18.0 14.0 10.0 11.0 21.0 19.0 14.0 10.0 11.5 22.0 20.0 14.0 10.0 11.5 22.0 21.0 14.0 9.0 12.0 22.0 21.0 14.0 9.0 12.0 22.0 21.0 14.0 9.0 5.0 23.0 17.0 16.0 9.0 5.0 23.0 17.0 16.0 9.0 9.5 23.0 21.0 16.0 6.0 10.0 </td <td>26.0 15.0 12.0 11.0 10.0 14.0 26.0 17.0 12.0 11.0 7.0 14.0 25.0 14.0 12.0 11.0 7.0 14.0 24.0 15.0 12.0 11.0 7.0 14.0 24.0 16.0 14.0 10.0 11.0 14.0 22.0 16.0 14.0 10.0 11.0 13.0 20.0 18.0 14.0 10.0 11.0 13.0 21.0 19.0 14.0 10.0 11.5 13.0 21.0 19.0 14.0 10.0 11.5 13.0 22.0 20.0 14.0 9.0 12.0 13.0 22.0 20.0 16.0 9.0 6.0 16.0 22.0 20.0 16.0 9.0 5.0 16.0 23.0 17.0 16.0 9.0 9.5 17.0 23.0 18.0 16.0 9.0 9.5 17.0 23.0 17.0 16.0 6.0 8.</td> <td>OCT NOV DEC JAN FEB MAR APR 26.0 15.0 12.0 11.0 10.0 14.0 22.0 26.0 17.0 12.0 11.0 7.0 14.0 21.0 25.0 14.0 12.0 11.0 7.0 14.0 21.0 24.0 15.0 12.0 11.0 11.0 14.0 21.0 24.0 16.0 14.0 10.0 10.5 14.0 22.0 22.0 16.0 14.0 10.0 11.0 13.0 21.0 20.0 18.0 14.0 10.0 11.0 13.0 21.0 22.0 18.0 14.0 10.0 11.0 13.0 21.0 22.0 20.0 14.0 9.0 12.0 13.0 21.0 22.0 22.0 16.0 9.0 6.0 16.0 23.0 22.0 23.0 16.0 9.0 5.0 16.0 23</td> <td>OCT NOV DEC JAN FEB MAR APR MAY 26.0 15.0 12.0 11.0 10.0 14.0 22.0 25.5 26.0 17.0 12.0 11.0 7.0 14.0 21.0 26.0 25.0 14.0 12.0 11.0 7.0 14.0 21.0 25.0 24.0 15.0 12.0 11.0 11.0 14.0 21.0 25.0 24.0 16.0 14.0 10.0 11.0 14.0 21.0 25.0 24.0 16.0 14.0 10.0 11.0 13.0 21.0 25.0 24.0 16.0 14.0 10.0 11.5 13.0 21.0 24.0 21.0 19.0 14.0 10.0 11.5 13.0 21.0 24.0 21.0 19.0 14.0 10.0 11.5 13.0 21.0 24.0 22.0 20.0 16.0 9.0</td> <td>OCT NOV DEC JAN FEB MAR APR MAY JUN 26.0 15.0 12.0 11.0 10.0 14.0 22.0 25.5 24.0 26.0 17.0 12.0 11.0 7.0 14.0 21.0 26.0 28.0 25.0 14.0 12.0 11.0 11.0 14.0 21.0 25.0 24.0 24.0 16.0 14.0 10.0 10.5 14.0 21.0 25.0 28.0 24.0 16.0 14.0 10.0 11.0 14.0 22.0 25.0 28.0 20.0 18.0 14.0 10.0 11.0 13.0 21.0 24.0 28.0 21.0 19.0 14.0 10.0 11.5 13.0 21.0 24.0 28.0 22.0 20.0 14.0 9.0 12.0 13.0 21.0 24.0 28.0 22.0 20.0 16.0 9.0</td> <td>OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 26.0 15.0 12.0 11.0 10.0 14.0 22.0 25.5 24.0 28.5 26.0 17.0 12.0 11.0 7.0 14.0 21.0 26.0 28.0 28.5 25.0 14.0 12.0 11.0 7.0 14.0 21.0 25.0 28.0 28.5 24.0 15.0 12.0 11.0 11.0 14.0 21.0 25.0 28.0 28.5 24.0 16.0 14.0 10.0 10.5 14.0 22.0 25.0 28.0 28.5 24.0 16.0 14.0 10.0 10.5 14.0 22.0 25.0 28.0 28.5 22.0 16.0 14.0 10.0 11.5 14.0 22.0 25.0 28.0 28.5 22.0 16.0 14.0 10.0 11.0 13.0 21.0 24.0 28.0 28.5 22.0 18.0 14.0 10.0 11.5 13.0 21.0 24.0 28.0 29.0 20.0 18.0 14.0 10.0 11.5 13.0 21.0 24.0 28.0 27.0 21.0 19.0 14.0 9.0 11.5 13.0 21.0 24.0 28.0 27.0 22.0 20.0 14.0 9.0 11.0 12.0 22.0 25.0 28.0 28.0 22.0 20.0 16.0 9.0 5.0 16.0 23.0 22.0 29.0 29.0 22.0 20.0 16.0 9.0 5.0 16.0 23.0 22.0 29.0 29.0 22.0 18.0 16.0 9.0 5.0 16.0 23.0 22.0 29.0 29.0 23.0 17.0 16.0 9.0 5.0 16.0 23.0 22.0 29.0 29.0 23.0 17.0 16.0 9.0 9.5 17.0 23.0 24.0 27.5 30.0 23.0 20.0 16.0 6.0 8.0 17.0 24.0 24.0 28.5 30.0 23.0 17.0 16.0 9.0 9.5 17.0 23.0 24.0 28.5 30.0 23.0 17.0 16.0 9.0 9.5 17.0 23.0 24.0 28.5 30.0 23.0 19.0 10.0 8.0 17.0 24.0 24.0 28.5 29.0 23.0 18.0 10.0 8.0 17.0 25.0 26.0 29.0 30.0 23.0 19.0 10.0 9.0 17.0 24.0 24.0 28.5 29.0 23.0 18.0 10.0 8.5 14.0 13.0 25.0 25.0 29.0 30.0 23.0 19.0 10.0 10.0 9.0 16.0 15.0 25.0 23.0 29.0 29.0 30.0 23.0 17.0 8.0 8.5 14.0 13.0 25.0 25.0 29.0 30.0 23.0 10.0 10.0 10.0 9.0 14.0 11.0 25.0 23.0 29.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 23.0 29.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 23.0 29.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 10.0 10.0 10.0 16.0 15.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 10.0 10.0 10.0 16.0 15.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 8.0 10.5 20.0 26.0 26.0 29.5 30.0 24.0 25.0 29.0 30.0 16.0 16.0 18.0 25.0 25.0 29.0 30.0 25.0 25.0 25.0 25.0 29.0 30.0 16.0 16.0 18.0 25.0 25.0 29.0 30.0</td> <td>OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG 26.0 15.0 12.0 11.0 10.0 14.0 22.0 25.5 24.0 28.5 30.0 26.0 17.0 12.0 11.0 7.0 14.0 21.0 26.0 28.0 28.5 29.5 25.0 14.0 12.0 11.0 7.0 14.0 21.0 25.0 24.0 28.5 29.5 24.0 15.0 12.0 11.0 11.0 14.0 21.0 25.0 28.0 28.0 28.5 30.0 24.0 15.0 12.0 11.0 11.0 14.0 21.0 25.0 28.0 28.5 30.0 24.0 15.0 14.0 10.0 10.5 14.0 21.0 25.0 28.0 28.5 30.0 24.0 16.0 14.0 10.0 10.5 14.0 22.0 25.0 28.0 28.5 30.0 24.0 16.0 14.0 10.0 10.5 14.0 22.0 25.0 28.0 28.5 30.0 22.0 16.0 14.0 10.0 11.0 13.0 21.0 24.0 28.0 29.0 20.0 18.0 14.0 10.0 11.5 13.0 21.0 24.0 28.0 29.0 27.0 26.0 21.0 19.0 14.0 9.0 11.0 11.5 13.0 21.0 24.0 28.0 29.0 26.5 22.0 20.0 14.0 9.0 11.0 12.0 22.0 22.0 24.0 29.0 30.0 27.5 22.0 21.0 14.0 9.0 11.0 12.0 22.0 22.0 24.0 29.0 30.0 27.5 22.0 21.0 14.0 9.0 11.0 12.0 22.0 22.0 24.0 29.0 30.0 27.5 22.0 21.0 16.0 9.0 5.0 16.0 23.0 23.0 28.0 29.0 29.0 29.0 23.0 17.0 16.0 9.0 9.5 17.0 23.0 24.0 27.5 30.0 29.0 23.0 17.0 16.0 9.0 9.5 17.0 24.0 24.0 27.5 30.0 29.0 23.0 17.0 16.0 9.0 9.5 17.0 24.0 24.0 27.5 30.0 29.0 23.0 17.0 16.0 9.0 9.5 17.0 24.0 24.0 27.5 30.0 29.0 23.0 17.0 16.0 6.0 10.0 17.0 24.0 24.0 28.5 30.0 30.0 29.0 23.0 17.0 16.0 6.0 10.0 17.0 24.0 24.0 28.5 30.0 30.0 29.0 23.0 19.0 16.0 6.0 10.0 17.0 24.0 24.0 28.5 30.0 30.0 29.0 23.0 19.0 16.0 6.0 10.0 17.0 24.0 24.0 28.5 30.0 30.0 29.0 23.0 17.0 8.0 8.5 6.0 13.0 25.0 25.0 29.0 30.0 30.0 23.0 17.0 8.0 8.5 6.0 13.0 25.0 25.0 29.0 30.0 30.0 23.0 17.0 8.0 8.5 6.0 13.0 25.0 25.0 29.0 30.0 30.0 23.0 17.0 8.0 8.5 6.0 13.0 25.0 25.0 29.0 30.0 30.0 23.0 17.0 8.0 8.5 6.0 13.0 25.0 25.0 29.0 30.0 28.5 29.0 23.0 10.0 10.0 10.0 9.0 16.0 15.0 25.0 25.0 29.0 30.0 28.5 29.0 23.0 10.0 10.0 10.0 9.0 16.0 15.0 25.0 25.0 29.0 30.0 29.0 23.0 10.0 10.0 10.0 9.0 16.0 15.0 25.0 25.0 29.0 30.0 29.0 23.0 10.0 10.0 10.0 10.0 10.0 16.0 16.0 12.0 25.0 25.0 29.0 30.0 29.0 23.0 10.0 10.0 10.0 10.0 10.0 16.0 16.0 18.0 25.0 25.0 29.0 30.0 29.0 25.0 29.5 30.0 29.0 25.0 29.5 30.0 29.0 25.0 29.5 30.0 29.0 25.0 29.0 30.0 29.0 25.0 29.0 30.0 29.0 25.0 29.0 30.0</td>	26.0 15.0 12.0 11.0 10.0 14.0 26.0 17.0 12.0 11.0 7.0 14.0 25.0 14.0 12.0 11.0 7.0 14.0 24.0 15.0 12.0 11.0 7.0 14.0 24.0 16.0 14.0 10.0 11.0 14.0 22.0 16.0 14.0 10.0 11.0 13.0 20.0 18.0 14.0 10.0 11.0 13.0 21.0 19.0 14.0 10.0 11.5 13.0 21.0 19.0 14.0 10.0 11.5 13.0 22.0 20.0 14.0 9.0 12.0 13.0 22.0 20.0 16.0 9.0 6.0 16.0 22.0 20.0 16.0 9.0 5.0 16.0 23.0 17.0 16.0 9.0 9.5 17.0 23.0 18.0 16.0 9.0 9.5 17.0 23.0 17.0 16.0 6.0 8.	OCT NOV DEC JAN FEB MAR APR 26.0 15.0 12.0 11.0 10.0 14.0 22.0 26.0 17.0 12.0 11.0 7.0 14.0 21.0 25.0 14.0 12.0 11.0 7.0 14.0 21.0 24.0 15.0 12.0 11.0 11.0 14.0 21.0 24.0 16.0 14.0 10.0 10.5 14.0 22.0 22.0 16.0 14.0 10.0 11.0 13.0 21.0 20.0 18.0 14.0 10.0 11.0 13.0 21.0 22.0 18.0 14.0 10.0 11.0 13.0 21.0 22.0 20.0 14.0 9.0 12.0 13.0 21.0 22.0 22.0 16.0 9.0 6.0 16.0 23.0 22.0 23.0 16.0 9.0 5.0 16.0 23	OCT NOV DEC JAN FEB MAR APR MAY 26.0 15.0 12.0 11.0 10.0 14.0 22.0 25.5 26.0 17.0 12.0 11.0 7.0 14.0 21.0 26.0 25.0 14.0 12.0 11.0 7.0 14.0 21.0 25.0 24.0 15.0 12.0 11.0 11.0 14.0 21.0 25.0 24.0 16.0 14.0 10.0 11.0 14.0 21.0 25.0 24.0 16.0 14.0 10.0 11.0 13.0 21.0 25.0 24.0 16.0 14.0 10.0 11.5 13.0 21.0 24.0 21.0 19.0 14.0 10.0 11.5 13.0 21.0 24.0 21.0 19.0 14.0 10.0 11.5 13.0 21.0 24.0 22.0 20.0 16.0 9.0	OCT NOV DEC JAN FEB MAR APR MAY JUN 26.0 15.0 12.0 11.0 10.0 14.0 22.0 25.5 24.0 26.0 17.0 12.0 11.0 7.0 14.0 21.0 26.0 28.0 25.0 14.0 12.0 11.0 11.0 14.0 21.0 25.0 24.0 24.0 16.0 14.0 10.0 10.5 14.0 21.0 25.0 28.0 24.0 16.0 14.0 10.0 11.0 14.0 22.0 25.0 28.0 20.0 18.0 14.0 10.0 11.0 13.0 21.0 24.0 28.0 21.0 19.0 14.0 10.0 11.5 13.0 21.0 24.0 28.0 22.0 20.0 14.0 9.0 12.0 13.0 21.0 24.0 28.0 22.0 20.0 16.0 9.0	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 26.0 15.0 12.0 11.0 10.0 14.0 22.0 25.5 24.0 28.5 26.0 17.0 12.0 11.0 7.0 14.0 21.0 26.0 28.0 28.5 25.0 14.0 12.0 11.0 7.0 14.0 21.0 25.0 28.0 28.5 24.0 15.0 12.0 11.0 11.0 14.0 21.0 25.0 28.0 28.5 24.0 16.0 14.0 10.0 10.5 14.0 22.0 25.0 28.0 28.5 24.0 16.0 14.0 10.0 10.5 14.0 22.0 25.0 28.0 28.5 22.0 16.0 14.0 10.0 11.5 14.0 22.0 25.0 28.0 28.5 22.0 16.0 14.0 10.0 11.0 13.0 21.0 24.0 28.0 28.5 22.0 18.0 14.0 10.0 11.5 13.0 21.0 24.0 28.0 29.0 20.0 18.0 14.0 10.0 11.5 13.0 21.0 24.0 28.0 27.0 21.0 19.0 14.0 9.0 11.5 13.0 21.0 24.0 28.0 27.0 22.0 20.0 14.0 9.0 11.0 12.0 22.0 25.0 28.0 28.0 22.0 20.0 16.0 9.0 5.0 16.0 23.0 22.0 29.0 29.0 22.0 20.0 16.0 9.0 5.0 16.0 23.0 22.0 29.0 29.0 22.0 18.0 16.0 9.0 5.0 16.0 23.0 22.0 29.0 29.0 23.0 17.0 16.0 9.0 5.0 16.0 23.0 22.0 29.0 29.0 23.0 17.0 16.0 9.0 9.5 17.0 23.0 24.0 27.5 30.0 23.0 20.0 16.0 6.0 8.0 17.0 24.0 24.0 28.5 30.0 23.0 17.0 16.0 9.0 9.5 17.0 23.0 24.0 28.5 30.0 23.0 17.0 16.0 9.0 9.5 17.0 23.0 24.0 28.5 30.0 23.0 19.0 10.0 8.0 17.0 24.0 24.0 28.5 29.0 23.0 18.0 10.0 8.0 17.0 25.0 26.0 29.0 30.0 23.0 19.0 10.0 9.0 17.0 24.0 24.0 28.5 29.0 23.0 18.0 10.0 8.5 14.0 13.0 25.0 25.0 29.0 30.0 23.0 19.0 10.0 10.0 9.0 16.0 15.0 25.0 23.0 29.0 29.0 30.0 23.0 17.0 8.0 8.5 14.0 13.0 25.0 25.0 29.0 30.0 23.0 10.0 10.0 10.0 9.0 14.0 11.0 25.0 23.0 29.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 23.0 29.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 23.0 29.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 9.0 14.0 11.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 10.0 10.0 10.0 16.0 15.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 10.0 10.0 10.0 16.0 15.0 25.0 25.0 29.0 30.0 23.0 13.0 10.0 10.0 8.0 10.5 20.0 26.0 26.0 29.5 30.0 24.0 25.0 29.0 30.0 16.0 16.0 18.0 25.0 25.0 29.0 30.0 25.0 25.0 25.0 25.0 29.0 30.0 16.0 16.0 18.0 25.0 25.0 29.0 30.0	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG 26.0 15.0 12.0 11.0 10.0 14.0 22.0 25.5 24.0 28.5 30.0 26.0 17.0 12.0 11.0 7.0 14.0 21.0 26.0 28.0 28.5 29.5 25.0 14.0 12.0 11.0 7.0 14.0 21.0 25.0 24.0 28.5 29.5 24.0 15.0 12.0 11.0 11.0 14.0 21.0 25.0 28.0 28.0 28.5 30.0 24.0 15.0 12.0 11.0 11.0 14.0 21.0 25.0 28.0 28.5 30.0 24.0 15.0 14.0 10.0 10.5 14.0 21.0 25.0 28.0 28.5 30.0 24.0 16.0 14.0 10.0 10.5 14.0 22.0 25.0 28.0 28.5 30.0 24.0 16.0 14.0 10.0 10.5 14.0 22.0 25.0 28.0 28.5 30.0 22.0 16.0 14.0 10.0 11.0 13.0 21.0 24.0 28.0 29.0 20.0 18.0 14.0 10.0 11.5 13.0 21.0 24.0 28.0 29.0 27.0 26.0 21.0 19.0 14.0 9.0 11.0 11.5 13.0 21.0 24.0 28.0 29.0 26.5 22.0 20.0 14.0 9.0 11.0 12.0 22.0 22.0 24.0 29.0 30.0 27.5 22.0 21.0 14.0 9.0 11.0 12.0 22.0 22.0 24.0 29.0 30.0 27.5 22.0 21.0 14.0 9.0 11.0 12.0 22.0 22.0 24.0 29.0 30.0 27.5 22.0 21.0 16.0 9.0 5.0 16.0 23.0 23.0 28.0 29.0 29.0 29.0 23.0 17.0 16.0 9.0 9.5 17.0 23.0 24.0 27.5 30.0 29.0 23.0 17.0 16.0 9.0 9.5 17.0 24.0 24.0 27.5 30.0 29.0 23.0 17.0 16.0 9.0 9.5 17.0 24.0 24.0 27.5 30.0 29.0 23.0 17.0 16.0 9.0 9.5 17.0 24.0 24.0 27.5 30.0 29.0 23.0 17.0 16.0 6.0 10.0 17.0 24.0 24.0 28.5 30.0 30.0 29.0 23.0 17.0 16.0 6.0 10.0 17.0 24.0 24.0 28.5 30.0 30.0 29.0 23.0 19.0 16.0 6.0 10.0 17.0 24.0 24.0 28.5 30.0 30.0 29.0 23.0 19.0 16.0 6.0 10.0 17.0 24.0 24.0 28.5 30.0 30.0 29.0 23.0 17.0 8.0 8.5 6.0 13.0 25.0 25.0 29.0 30.0 30.0 23.0 17.0 8.0 8.5 6.0 13.0 25.0 25.0 29.0 30.0 30.0 23.0 17.0 8.0 8.5 6.0 13.0 25.0 25.0 29.0 30.0 30.0 23.0 17.0 8.0 8.5 6.0 13.0 25.0 25.0 29.0 30.0 30.0 23.0 17.0 8.0 8.5 6.0 13.0 25.0 25.0 29.0 30.0 28.5 29.0 23.0 10.0 10.0 10.0 9.0 16.0 15.0 25.0 25.0 29.0 30.0 28.5 29.0 23.0 10.0 10.0 10.0 9.0 16.0 15.0 25.0 25.0 29.0 30.0 29.0 23.0 10.0 10.0 10.0 9.0 16.0 15.0 25.0 25.0 29.0 30.0 29.0 23.0 10.0 10.0 10.0 10.0 10.0 16.0 16.0 12.0 25.0 25.0 29.0 30.0 29.0 23.0 10.0 10.0 10.0 10.0 10.0 16.0 16.0 18.0 25.0 25.0 29.0 30.0 29.0 25.0 29.5 30.0 29.0 25.0 29.5 30.0 29.0 25.0 29.5 30.0 29.0 25.0 29.0 30.0 29.0 25.0 29.0 30.0 29.0 25.0 29.0 30.0

MISSISSIPPI RIVER DELTA

293316092182000 FRESHWATER CANAL AT FRESHWATER BAYOU LOCK (NORTH), NEAR FORKED ISLAND, LA (CE 76592) -- Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

CHLORIDE. DISSOLVED (MG/L). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

					0	NCE-DAILY						
DAY	oct	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8600	9000	8000	8500	9000	9900	8800	9300	10000	3400	6400	4800
2	8400	9800	6400	9000	8600	9300	8700	11000	8000	2800	8600	4500
3	9000	10000	7400	9500	8800	9800	8100	10000	9100	3900	4600	4500
4	11000	11000	7800	10000	8600	9000	7500	10000	8000	3900	8000	4100
5	13000	9800	9600	10000	8800	8200	7400	8800	9800	3800	7900	5900
6	13000	9300	7000	7300	9000	8000	11000	8800	7000	3200		5800
7	11000	11000	6800	6900	8800	8300	9900	12000	6700	3600	7700	6500
8	11000	11000	6600	8700	8300	10000	9000	13000	8000	3300	7000	4700
9	10000	9800	6000	7400	7700	9900	8500	11000	7400	3600	12000	6400
10	11000	9800	9300	9000	7300	8400	8000	10000	7600	3400	9800	8000
11	10000	9000	8900	10000	7900	8500	7800	9400	7700	4600	11000	7200
12	9800	9400	12000	10000	7900	8500	7500	11000	6200	3700	7700	6800
13	13000	11000	13000	12000	7300	7900	7600	11000	5700	3300	7800	5900
14	10000	6300	12000	10000	7400	7400	7400	11000	5700	3100	8000	5900
15	9400	9000	11000	11000	7200	7500	7400	9800	5000	3800	7600	5700
16	9400	10000	8000	10000	7500	7600	7300	11000	4500	6600	7200	6300
17	9700	9000	9000	12000	7900	8100	7100	11000	4600	9400	8700	11000
18	8100	9600	11000	11000	8400	9800	7200	10000	5600	9700	9100	11000
19	8000	8000	8600	11000	8600	7800	6800	8800	5900	10000	11000	8800
20	8100	8600	8700	9100	9700	7600	6400	8000	6600	10000	10000	8800
21	8700	8600	8800	11000	11000	11000	8400	10000	5500	11000	11000	7500
55	8000	9300	7400	12000	11000	10000	9300	10000	5800	12000	11000	6900
23	8700	8200	8000	12000	11000	9500	9500	9700	5200	11000	7500	6700
24	9400	8000	8300	11000	9700	11000	9600	9100	5700	9000	9500	6600
25	8300	8700	7100	11000	9900	9900	11000	8800	5200	7300	8500	6600
26	11000	8000	10000	13000	9900	8700	9400	9100	5100	9100	8100	6200
27	9800	9100	7400	11000	9800	10000	9100	8200	4900	5800	7800	5500
28	6400	7500	8100	10000	11000	9800	8800	8700	3500	7400	7100	5700
29	6900	7300	8000	11000		9300	8600	9600	3600	7100	5100	5700
30	8500	8000	9500	15000		8600	8400	9900	3400	8200	5200	5200
31	9800			8500		17000		9900		8200	5200	
MAX	13000	11000	13000	13000	11000	17000	11000	13000	10000	15000	12000	11000
MIN	6400	6300	6000	6900	7200	7400	6400	8000	3400	2800	4600	4100

MERMENTAU RIVER BASIN

151

294528092155000 SCHOONER BAYOU (INLAND WATERWAY) WEST OF CONTROL STRUCTURE, NEAR FORKED ISLAND, LA (Formerly published as 294528092154800 Schooner Bayou (Inland Waterway) west of Control Structure, near Forked Island, LA)

LOCATION.--Lat 29°45'28", long 92°15'50", T.15 S., R.2 E., Vermilion Parish, Hydrologic Unit 08080202, at southwest fender of structure and 5.4 mi (8.7 km) southeast of Forked Island.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD . --

WATER TEMPERATURES: October 1976 to October 1978, December 1979 to current year. CHLORIDE: October 1974 to October 1978, December 1979 to current year.

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey. Corps of Engineers staiton 76680.

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: Maximum daily, 32.0°C July 19-24, 1980, July 19, 21, 23, 1981; minimum daily, 1.0°C Jan. 10, 1977. CHLORIDE: Maximum daily, 6,300 mg/L Aug. 10, 1980; minimum daily, 10 mg/L Jan. 12, 1980.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURES: Maximum daily, 32.0°C July 19, 21, 23; minimum daily, 6.0°C Jan. 18. CHLORIDE: Maximum daily, 5,900 mg/L Nov. 14; minimum daily, 72 mg/L July 11.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DATLY

					01	MCE-DAILY						
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			9.0	9.0	12.0	15.0	22.5	25.5	25.5		30.0	26.0
2			9.0	9.0	11.0	17.0	20.0	25.0	27.0		28.0	23.0
3			12.0	9.0	10.0	17.0	22.0	25.0	27.0		30.5	27.0
4			14.0	11.0	10.0	18.0	22.5	25.0	27.0	27.0	28.0	22.0
5			13.0	10.0	9.5	17.0	20.0	24.0	27.0	27.0	29.0	23.0
6			14.0	11.0	10.0	15.0	20.0	22.0	27.0	26.0	29.0	22.0
7		18.0	17.0	11.0	11.0	16.5	21.0	22.0	27.0	26.5	29.0	55.0
8		19.0	19.0	10.0	10.0	16.0	25.0	22.0	27.0	27.0	27.5	23.0
9		19.0	18.0	12.0	10.0	16.0	55.0	23.0	27.0	28.5	29.5	29.0
10		19.0	15.0	10.0	10.5	16.0	21.5	23.0	27.0	28.0	28.0	23.0
11		17.0	12.0	8.5	9.5		23.0	23.0	27.0	27.0	28.0	19.5
12		17.0	13.0	10.0	7.0	16.0	24.0	21.0	27.0	25.0	27.0	22.5
13		18.0		8.0	9.0	17.0	24.0	23.0	27.5	27.5	28.0	19.0
14		18.0		10.0	7.5	16.0	23.0	24.0	27.5	28.0	24.5	23.0
15		18.0		9.0	7.0	17.0	25.0	22.0	27.5	29.0	26.0	19.5
16		18.0		10.0	9.5	15.0	25.0	25.0	27.5	29.0	26.0	23.0
17		15.0	14.0	10.0	10.0	16.0	25.0	23.0	27.5	30.0	27.0	20.0
18		15.0	14.0	6.0	12.0	19.0	25.0	25.0	27.5	30.0	27.0	19.0
19		12.0	14.0	9.0	12.0	16.0	24.0	25.0	27.5	32.0	31.0	18.0
20		12.0	14.0	9.0	16.0	15.0	24.0	22.0	27.5	30.0	27.0	18.0
21		12.0	14.0	7.5	16.0	20.0	26.0	21.0	27.5	32.0	26.0	17.0
25		12.0	14.0		17.0	21.0	26.0	22.0	27.5	30.0	30.0	19.0
23		12.0	14.0	9.0	16.0	15.0	25.0	23.0	27.5	32.0	30.0	21.0
24		12.0	14.0	8.5	15.0	15.5	24.0	24.0	27.5	30.5	29.0	25.0
25		10.0	10.0	10.0	15.0	16.0	24.0	25.0	27.5	31.0	25.0	26.0
26		13.0	10.0	11.0	15.0	16.5	24.0	24.0	27.0	29.0	28.0	24.0
27		10.0	10.0	11.0	17.0	16.0	24.0	25.0	27.5	27.0	26.0	24.0
28		9.0	10.0	11.0	17.0	18.0	24.0	27.0	28.5	28.5	28.5	25.0
29		9.0	10.0	11.0		20.0	25.0	28.0	29.0	30.5	27.0	27.0
30		9.0	10.0	15.5		20.0	25.0	26.0	28.0	29.0	28.0	27.0
31			10.0	12.0		20.0		29.0		28.0	26.0	
MAX		19.0	19.0	15.5	17.0	21.0	26.0	29.0	29.0	32.0	31.0	29.0
MIN		9.0	9.0	6.0	7.0	15.0	20.0	21.0	25.5	25.0	24.5	17.0

152

MERMENTAU RIVER BASIN

294528092155000 SCHOONER BAYOU (INLAND WATERWAY) WEST OF CONTROL STRUCTURE, NEAR FORKED ISLAND, LA--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

CHLORIDE: DISSOLVED (MG/L): WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2200	800	300	500	1300	660	390	2600	2000		600	1700
2	1400	800	400	1300	1400	1100	810	2800	1500		750	1800
3	1300	800	330	1600	1000	1000	690	2600	1200		780	1500
4	1100	900	490	1700	880	1500	1100	3000	780	530	760	1300
5	1200	800	240	1100	1200	750	750	1400	4000	680	710	1000
6	1100	1000	250	770	620	1200	440	1200	2600	440	750	1000
7	900	700	290	1400	240	1900	570	900	1200	340	670	1100
8		1200	390	1900	130	2600	530	930	1400	300	510	1000
9	1000	800	170	1800	100	1200	670	660	410	620	690	670
10	1000	1000	110	1100	110	1500	630	660	1200	200	720	1200
11	1200	900	470	820	130	1600	820	870	420	72	650	1100
12	1000	1500	400	870	510	1400	920	880	380	720	700	1200
13	1300	3200	290	790	400	1000	930	860	310	920	800	1100
14	1000	5900	600	780	630	1100	1100	550	450	900	670	1200
15	2000	5500	730	730	690	1800	1300	500	540	900	680	1200
16		4400	740	3200	700	1300	1700	600	690	920	770	230
17		5300	710	710	690	870	1800	730	810	960	670	1100
18		2400	660	770	690	1300	1300	1600	1000	880	700	1000
19	3200			760	510	700	1200	690	900	860	660	970
50	300	1300	140	1700	790	760	1600	910	900	800	680	870
21	310	1300	630	1100	640	1200	2000	1400	950	910	680	890
55	560	1500	770		670	3100	2400	1400	970	850	1400	860
23	570	3100	740	1200	680	1100	2400	1700	940	850	980	280
24	550		1000		640	740	2800	1600	920	850	890	320
25	870	1700		2000	620	620	2500	1200	930	830	270	320
26	720	600	1800	720	730	720	1700	930	970	420	970	390
27	960	1000	2000	1900	550	760	1500	1600	900	1100	1200	360
28		800	1300	780	550	1200	1700	1900	880	600	540	440
29	770	600	1000	1800		1100	1400	1900	890	200	540	540
30	760	300	900	980		410	2100	2000	750	320	940	300
31	780		800	1600		390		2300		150	970	
MAX	3200	5900	2000	3200	1400	3100	2800	3000	4000	1100	1400	1800
MIN	300	300	110	500	100	390	390	500	310	72	270	230

294625092244000 WHITE LAKE IN NORTHEAST CORNER, NEAR LITTLE PRAIRIE RIDGE, NEAR FORKED ISLAND, LA

LOCATION.--Lat 29°46'25", long 92°24'40", R.1 E., T.15 E., Vermilion Parish, Hydrologic Unit 08080202, 7.2 mi (11.6 km) southwest of Forked Island.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1974 to January 1981 (discontinued).

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey. Corps of Engineers station 96123.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
ост												
30	1210	2740	7.1	10	35	<1.0	10.4	43	1.4	K60	K10	300
20 DEC	1246	4130	7.1	5	20	<1.0	11.2	45	2.6		K10	430
12 JAN	1409	2320	6.9	20	40	<1.0	11.8	32	2.6		96	230
22	1145	2590	6.7	10	45	<1.0	12.0	29	1.4	<5	<4	280
DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT 30	280	34	52	440	18	23	120	790	63	.00	.01	.01
NOV 20	410	42	80	640	23	26	170	1200	40	.01	.00	.01
DEC 12	210	24	41	360	12	19	98	630	60	.12	.02	.14
JAN	100											
22	260	28	51	410	14	18	120	750	76	•09	.01	.10
DATE	NITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L AS. N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER. TOTAL (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)
OCT	200									2.	-	
30	1.4	.10	1	0	0	0	0	0	0	0	3	3
20	.81	.05	0	0	0	0	0	1	0	0	6	3
12	1.3	.46	1	0	0	0	0	0	20	0	5	2
JAN 22	.61	.02	1	0	0	0	0	0	0	0	6	2

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

294625092244000 WHITE LAKE IN NORTHEAST CORNER, NEAR LITTLE PRAIRIE RIDGE, NEAR FORKED ISLAND, LA--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON DIS SOLV (UG/ AS F	ED TO	TAL S	OLVED UG/L	ERCURY TOTAL (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL (UG/L AS NI)	NICKE DIS- SOLV (UG/ AS N	ED TO	LE- N UM, TAL S G/L (OLVED T	INC. DTAL S UG/L (CARBON, ORGANIC TOTAL (MG/L AS C)
OCT		50	4	0	• 1	.0	6		0	0	0	20	10	
30							2		0	0	0	30	20	8.0
20 DEC		30	13	2	.0	.0				0	0	30	10	12
12 JAN		30	3	0	• 2	•1	3		0				10	7.8
22		30	7	2	•1	• 0	4		0	0	0	20	10	7.0
DAI		CYANIDE TOTAL (MG/L AS CN)	PHENOLS	METRI	- PCF	L TOTA	A- ES, LY- DR. ALDR	IN.	CHLOR- DANE, TOTAL (UG/L)	DDD • TOTAL (UG/L)	DDE + TOTAL (UG/L)	DOT, TOTAL (UG/L)	DI- AZING TOTA (UGA	ON,
OCT 30,		.00	0		0	. 0	.0 .	000	• 0	.000	.000	.000		.00
NOV 20		.00	0		0 <	.1	<.1 <.	001	<.1	<.001	<.001	<.001		.01
DEC 12.		.00	ç		0 <	1	<.1 <.	001	<.1	<.001	<.001	<.001	<.	.01
JAN 22		.00	1		0 <	.1	<.1 <.	001	<.1	<.000	<.001	<.001	<.	.01
DA	ΤE	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN• TOTAL (UG/L)	ENDRIN TOTAL (UG/L	TOT	AL TOTA	TA- CHL DR. EPOX AL TOI	IDE L	INDANE TOTAL (UG/L)	MALA- THION: TOTAL (UG/L)	TOTAL	METHYL PAKA- THION: TOTAL (UG/L)	THIC TOTA	I- ON• AL
OCT		0.0.0	.000	.00	n	.00 .0	000 .	000	.000	.00	0 .00	.00)	.00
NON 30'		<.000						.001	<.001	<.0	1 <.01	<.01		.01
DEC		<.001						.001	<.001	<.0	1 <.01	<.0		.01
JAN 22		<.001					001 <	.001	<.001	<.0	1 <.01	<.0		.01
												PHYTO-	A CHLO	-01
DA	TE	MIREX. TOTAL (UG/L)	TOTAL	TOTAL	APHE	AL THI	I- 2,	TAL	2, 4-DP TOTAL (UG/L)	2.4.5- TOTAL (UG/L	TOTAL	FLUORO	CHRO M FLUO	N MO ROM
0CT 30		.00		0 .0	0	.0	.00	.00	.00	.0	0 .00	27.4		000
NOV		<.01					.01	.00	.00	.0	0 .00	13.1		000
50														
DEC 12		<.01	<.0	1 <.0	1	<.1 <	.01	.00	.00	.0	0 .00	18.5		910

< Actual value is known to be less than the value shown.

294333092272000 WHITE LAKE (EAST SIDE), 4.8 MILES WEST OF SCHOONER BAYOU, NEAR FORKED ISLAND, LA LOCATION.--Lat 29°43'33", long 92°27'20", T.15 S., R.1 W., Vermilion Parish, Hydrologic Unit 08080202, 12.0 mi (19.3 km) southwest of Forked Island.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1978 to January 1981 (discontinued).

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey. Corps of Engineers station 70690.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BIO- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM. FECAL. 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
ост												
30	1200	2740	7.1	5	30	<1.0	10.5	41	1.4	K20	K5	300
20	1239	2850	7.0	10	30	<1.0	11.2	35	2.1		<5	300
DEC		12000		775							-	2.02
12 JAN	1415	2640	7.1	0	40	<1.0	11.7	27	2.5	K20	К8	270
22	1140	2600	6.7	10	45	<1.0	11.8	29	1.4	<5	<4	280
DATE OCT 30 NOV 20 DEC	HARD- NESS+ NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM+ DTS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM. DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE. DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN. NITRITE TOTAL (MG/L AS N) .01	NITRO- GEN. NOZ-NO3 TOTAL (MG/L AS N)
12 JAN	250	28	49	420	14	20	110	750	64	.08	.01	.09
22	270	28	52	410	14	18	120	750	76	.07	•02	.09
DATE	NITRO- GEN+AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM. TOTAL (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	CUPPER + TOTAL (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
OCT												
30	1.0	.11	1	1	10	0	0	1	0	0	4	2
20 DEC	.72	.05	0	0	0	0	1	0	0	0	7	3
12 JAN	.61	.09	1	0	0	0	0	0	20	0	3	5
22	1.0	.08	1	0	0	0	0	0	0	0	6	3

 $[\]mbox{\ensuremath{$<$}}$ Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

294333092272000 WHITE LAKE (EAST SIDE), 4.8 MILES WEST OF SCHOONER BAYOU, NEAR FORKED ISLAND, LA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON DIS- SOLVI (UG/I	ED :	LEAD, FOTAL (UG/L AS PB)	SOL	VED	MERC TOT (UG	URY	MERCU DIS SOLV (UG/ AS H	ED I	CKEL + TOTAL TUG/L AS NI)	DI 50 (U	KEL, S- LVED G/L NI)	SEL NIU TOT (UG	AL S	DIS- OLVED UG/L S SE)	10	NC . TAL G/L	ZINC DIS- SOLVI (UG/I AS ZI	- OF	RBON. RGANIC TOTAL (MG/L AS C)
OCT			4		1		•1		. 0	9		1		0	0		30		20	
30		50										0		0	0		20		10	9.2
20 DEC		10	5		2		• 1		• 0	3									40	8.0
12 JAN		10	3		1		• 1		• 1	2		0		0	0					
22		30	4		1		• 1		•1	4		0		0	0		10		10	8.2
DAT		YANID TOTAL (MG/L AS CN	PHEN	OLS	UIL A GREAS TOTA RECO GRAV METR (MG/	E, V. I-	PCF TOTA (UG/L	3 AL	NAPH- THA- LENES POLY- CHLOR TOTAL (UG/L	· ALD	RIN, TAL G/L)	CHLOF DANE TOTAL (UG/I		DDD. TOTAL (UG/L)	TO	DDE + OTAL UG/L)	DDT, TOTAL (UG/L		DI- ZINON TOTAL (UG/L	
OCT 30.		.0	0	2		0		. 0		0	.000		. 0	.000)	.000	.00	0	.0	0
NOV 20		.0		1		0	<.		۷.		.001	<	. 1	<.001		.001	<.00	1	<.0	1
DEC 12.		. 0		0		0	<		۷.		.001	<	. 1	<.001		.001	<.00	1	<.0	1
JAN 22.		.0		1				. 1	۲.		.001		. 1	<.000		.001	<.00	1	<.0	1
DA	TE	DI- ELDRI TOTAL (UG/L	TOT	AN.	ENDRI TOTA (UG/	L	ETHIC	AL	HEPTA CHLOR TOTAL (UG/L	- CH - EPC	PTA- HLOR XIDE TAL	LINDA TOTA (UG/	L	MALA- THION TOTAL (UG/L	• CH	TH-)XY- HLOR,)TAL JG/L)	METHY PARA- THION TOTAL (UG/L	,	METHY TRI- THION TOTAL (UG/L	,
OCT		0.0	0	000	0	00		.00	.00	0	.000	.0	0.0	.0	0	.00	• (0.0	. 0	0
NOV		.00						.01	<.00		.001	<.0		<.0		<.01	<.(<.0	
DEC		<.00		001	<.0															
JAN		<.00		001	<.0			.01	<.00		.001	<.0		<.0		<.01	<.(<.0	
22	•••	<.00	1 <.	001	<.0	01	<	.01	<.00	1 <	.001	<.0	01	<.0	1	<.01	<.()1	<.0	1.
		MIREX	. TH	RA- ION,	PER THAN TOTA	IE L	TO: APHEI TOT:	NE,	TOTAL TRI- THION	TO	4-0,)TAL	2, 4- TOTA	L	2,4,5- TOTAL (UG/L	T	VEX.	CHLOR- PHYTO PLANE TON CHROMO FLUORO (UG/L)- (-)M F	HLOR- PHYTO PLANK TON HROMO LUORO (UG/L	- M
DA		(UG/L) (00	5/L)	(UG/	LI	(UG.	/L/	(UG/L	, (IG/L)	(UG/L	,	100/	, (J. G. L. I	,0071		,00, 6	Ÿ
		. 0	0	.00		.00		.0	.0	0	.00		00	.0	0	.00	28.0		• 00	0
		<.0	1 .	.01	۷.	01		< . 1	<.0	1	.00		00	• 0	0	.00	26.7		.00	0
		<.0	1 .	.01	<.	01		<.1	<.0	1	.00		00	.0	0	.00	22.3		• 0 0	0
JAN		<.0	1	<.01	<.	01		<.1	<.0	1	.01	۷.	01	<.0	1	<.01	8.00	0	.00	0

< Actual value is known to be less than the value shown.

295223092501800 GRAND LAKE NORTHEAST OF CATFISH POINT CONTROL STRUCTURE NEAR GRAND CHENIERE, LA (Formerly published as 294530092360000 Grand Lake Northeast of Catfish Point Control Structure near Grand Cheniere, LA)

LOCATION.--Lat 29°52'23", long 92°50'18", T.13 S., R.4 W., Cameron Parish, Hydrologic Unit 08080202, 7.7 mi (12.4 km) northeast of Grand Cheniere.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1974 to current year.

 ${\tt COOPERATION.--Samples \ collected \ by \ the \ Corps \ of \ Engineers \ and \ analyzed \ by \ the \ Geological \ Survey.} \quad {\tt Corps \ of \ Engineers \ station \ 96128.}$

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./
OCT 30	1105	2990	7.2		5	30	<1.0	10.4	36	.8	K75	K10
NOV 20	1310	3110	7.4		10	20	<1.0	11.0	33	.8		K15
DEC 12	1340	2280	7.3		5	25	<1.0	10.8	29	1.5	K10	К6
JAN 22	1215	1800	7.2		30	60	<1.0	12.2	57	2.2	<5	<4
JUN 10	1200	3970	7.3	29.5	5	2.0	<1.0	7.1	39	.5	470	<4
AUG 12	0930	556	6.5	30.0	80	50	<1.0	6.8	51	1.2	K200	<10
12	0430	556	0.5	30.0	60	30	11.0	0.0	51	1.2	REUU	110
DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS; NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SONIUM. DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS: RESIDUE AT 105 DEG. C: SUS- PENDED (MG/L)	NITRO- GEN. NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)
30 NOV	340	310	35	61	500	21	29	130	940	76	.00	•01
20	330	290	34	59	500	19	41	100	920	33	.01	• 0 0
DEC 12	240	190	26	42	350	13	43	91	630	39	.03	• 01
NAU NUL	190	150	22	32	280	11	37	77	490	98	.01	.03
10	400	380	35	77	630	25	25	180	1200	25	.11	.03
12	65	33	9.7	10	84	5.1	32	19	140	49	.01	.03
DATE	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN:AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM. HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
OCT	0.1	7.2	1.2	i	0	0	0	0	0	0	0	3
30 NOV	.01	.72	.12	0	0	0	0	0	0	0	0	6
DEC	.01	.86										4
12 JAN	.04	.65	.02	1	0	0	0	0	0	10	0	
JUN SS	.04	.83	.05	1	0	0	0	0	<1	0	0	6
10 AUG	•14	1.5	.31	1	1	0	0	1	0	30	0	5
12	.04	1.4	.12	3	1	0	<1	0	<1	0	0	10

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

295223092501800 GRAND LAKE NORTHEAST OF CATFISH POINT CONTROL STRUCTURE NEAR GRAND CHENIERE, LA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	COPPER. DIS- SOLVED (UG/L AS CU)	501 (U	ON. IS- LVED G/L FE)	LEAD. TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD: DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERI D SOI (U	CURY IS- LVED G/L HG)	NICKEL TOTAL RECOV ERABL (UG/L AS NI	- DI E 50	CKEL. (S- DLVED JG/L S NI)	SELE- NIUM, TOTAL (UG/L AS SE)	NI D SO (U	UM, IS- LVED G/L	ZINC: TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC+ DIS- SOLVED (UG/L AS ZN)
OCT			.201					1.2				2.				
30	3		50	1	3	.1		• 0		6	1	0		0	10	10
20 DEC	4		30	3	1	• 0		. 0		2	0	0		0	20	10
12 JAN	2		20	4	0	.1		. 1		2	0	0		0	30	30
22	1		20	8	2	.1		. 0		5	0	0		0	10	5
JUN 10	3		20	18	2	.1		. 0	1	5	1	0		0		20
12	4		93	6	0	.1		. 0		4	1	0		0	40	23
	CARBON. ORGANIC TOTAL (MG/L	CYA TO	NIDE TAL F		OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC	PCB.	LE PO CH	PH- HA- NES, LY- LOR.	ALDRIN TOTAL	, D	HLOR= ANE; DTAL	DDD •		DE,	DDT,	DI- AZINON, TOTAL
DATE	AS C)		CN)	(UG/L)	(MG/L)	(UG/L)		11	(UG/L		G/L)	(UG/L)		G/L)	(UG/L)	(UG/L)
0CT 30			.00	0	0	• 0		• 0	,00	0	• 0	.000		.000	.000	.00
20	7.0		.00	0	0	<.1		<.1	<.00	1	<.1	<.001	<	.001	<.001	<.01
12	7.6		.00	0	0	<.1		<,1	<.00	1	<.1	<.001	<	.001	<.001	<.01
JAN 22	12		.00	0	0	<.1		<.1	<.00	1	<.1	<.001	<	.001	<.001	<.01
JUN 10	11		.00	9	0	<.1		<.1	<.00	1	<.1	<.001	<	.001	<.001	.01
AUG 12	11		.00	0	0	<.1		<.1	<.00	1	<.1	<.001	<	.001	<.001	.05
DA	TE (U	I- DRIN TAL G/L)	ENDO- SULFAN TOTAL (UG/L	. ENDRI	L TOI	ON. CH	PTA- LOR.	HEPT CHLO EPOXI TOTA (UG/	R DE LI L T	NDANE OTAL UG/L)	MALA THIO TOTAL (UG/	- 0 N, CH L TO	TH- XY- LOR, TAL G/L)	METHY PARA- THION TOTAL (UG/L	, THI	I- ON, AL
		000	.0	00 .0	00	.00	.000	.0	00	.000		0 0	.00	.0	0	.00
NOV		.001	<.0	01 <.0	01	.01	<.001	<.0	01	<.001	۷,	01	<.01	<.0	1 <	.01
DEC 12		001	<.0	01 <.0	01	.01	<.001	<.0	01	<.001	٠.	01	<.01	<.0	1 <	.01
JAN 2S		.001	<.0	01 <.0	01	.01	<.001	<.0	01	<.001	۷.	01	<.01	<.0	1 <	.01
JUN		.001	<.0			.01	<.001	<.0	001	<.001	۷.	01	<.01	<.0	1 <	.01
AUG		.001	<.0				<.001	<.0		<.001			<.01	<.0		.01
12	•••	.001				•••										•••
DA	T	REX, OTAL	PARA- THIOM TOTAL	N. THAN	E APHE	TAL TH	TAL RI- HION JG/L)	2•4- TOTA (UG/	L T	4-DP OTAL IG/L)	2,4,5 TOTA (UG/	L TO	VEX, TAL G/L)	CHLOR- PHYTO PLANK TON CHROMO FLUORO (UG/L	PHY PLA TO CHRO	TO- NK- N MO ROM
OCT		0.0		0.0	0.0	0	0.0		0.0	0.0		0.0	0.0	0.47		92
NOV		.00			00	.0	•00		00	.00		0.0	.00	9.67		82
DEC		<.01	<. (<.1	<.01		00	.00		0.0	.00	2.84		000
JAN		<.01	<. (<.1	<.01		00	.00		00	.00	9.75		000
JUN JUN	•••	<.01	<.(01 <.	01	<.1	<.01	<.	01	<.01	۷.	01	<.01	12.2	•	190
		<.01	<. (01 <.	01	<.1	<.01	<.	01	<.01	<.	01	<.01	4.50		000
	•••	<.01	<. (01 <.	01	<.1	<.01		01	<.01	<.	01	<.01	3.96		000

< Actual value is known to be less than the value shown.

MERMENTAU RIVER BASIN 159

08012420 MERMENTAU RIVER AT LACASSINE REFUGE, NEAR LOWRY, LA (CE 70600)

LOCATION.--Lat 30°00'10", long 92°46'37", in sec.16, T.12 S., R.4 W., Cameron Parish, Hydrologic Unit 08080202, 1.5 mi (2.4 km) southwest of Lowry.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1978 to January 1981 (discontinued).

REMARKS.--Additional chlorides were determined weekly.

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM CORALT UNITS)	TUR- RID- ITY (NTU)	SFITLE- ABLE MATTER (ML/L/ HR)	OXYGEN: DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS, PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT												
30	1130	1140	7.4	20	20	<1.0	9.1	36	.8	K45	K30	150
20	1340	846	7.2	40	20	<1.0	10.2	33	1.3		K40	120
DEC 12 JAN	1326	176	7.1	120	65	<1.0	9.4	30	1.4	K280	60	36
22	1225	1480	7.1	50	100	<1.0	11.4	76	1.0	120	K76	150
	WA 2D-		MAGNE-		POTAS-			CHLO-	SOLIDS. RESIDUE	NITRO-	NITRO-	NITRO-
DATE	HARD- NESS: NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	RIDE, DIS- SOLVED (MG/L AS CL)	AT 105 DEG. C. SUS- PENDED (MG/L)	GEN, NITRATE TOTAL (MG/L AS N)	GEN, NITRITE TUTAL (MG/L AS N)	GEN. NO2+NO3 TOTAL (MG/L AS N)
OCT	-	54	22	1.70	10	79		300	24	0.0	0.1	0.1
30	71	24	22	170			41		24	•00	.01	.01
20	36	20	16	120	7.7	80	25	210	21	.04	• 0 0	.04
12 JAN	0	8.3	3.7	21	4.1	36	14	28	45	• 38	.04	.42
22	130	19	25	220	9.0	19	55	400	184	•10	•01	.11
DATE	NITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER. TOTAL (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
0CT 30	.79	.18	2	1	0	<1	1	<1	0	0	3	2
NOV			1	1	0	<1	0	<1	10	0	7	4
20	.90	.10										
12 JAN	1.0	.19	5	1	0	1	0	1	20	0	5	4
22	.75	.05	2	0	0	0	0	<1	0	0	8	3

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

08012420 MERMENTAU RIVER AT LACASSINE REFUGE, NEAR LOWRY, LA (CE 70600) -- Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

SELE-

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD. TOTAL (UG/L AS PR	SOL (UG	S- MER	CURY TAL JG/L HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL. TOTAL (UG/L AS NI)	NICKE DIS- SOLV (UG/ AS N	ED TO	TAL	SELE- NIUM. DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SULVED (UG/L AS V)	ZINC. TOTAL (UG/L AS ZN)	ZINC: DIS- SOLVED (UG/L AS ZN)
ост														
30	40		1	S	• 1	• 0	6		1	0	0		10	6
NOV 20	30		4	0	• 0	.0	3		0	0	0		10	4
12	150		7	2	.1	.0	4		0	0	0	2.0	40	9
JAN 22	30	1	7	1	• 1	• 0	5		0	0	0		10	10
	CARBON+ ORGANIC	CYANID	E	GRE	AND EASE + OTAL ECOV •		NAPH- THA- LENES, POLY-			HLOR=				-10
DATE	TOTAL (MG/L AS C)	TOTAL (MG/L AS CN	PHEN	ME	RAVI- TRIC 4G/L)	PCB TOTAL (UG/L)	CHLOR. TOTAL (UG/L)	TOTA (UG/	L TO	ANE + DTAL UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	TOTAL (UG/L)	TOTAL (UG/L)
OCT 30		.0	0	0	0	• 0	.0	.0	000	• 0	.000	.000	.000	.01
NOV 20	7.8	.0	0	0	0	<.1	<.1	< . 0	001	<.1	<.001	< .001	<.001	<.01
DEC 12	16	.0	0	1	0	<.1	<.1	<.0	001	<.1	<.001	<.001	<.001	<.01
JAN 22	18	.0	0	1	0	<.1	<.1	<.0	001	<.1	<.001	<.001	<.001	<.01
DA	T01	TAL T	NDO- LFAN, OTAL UG/L)	ENDRIN. TOTAL (UG/L)	ETHIC	ON, CHL	OR - CHL	IDE L	INDANE TOTAL (UG/L)	MALA- THION TOTAL (UG/L	· CHLO	PARA- R, THION	- TR N, THI L TOT	HYL II- ON, AL
OCT 30		.001	.000	.000		.00	000 .	.000	.000	.0	0 .	00	00	.00
NOV 20		.001	<.001	<.001	<	.01 <	.001 <.	.001	<.001	<.0	1 <.	01 <.	01 <	.01
DEC		.001	<.001	<.001	<.	.01 <	.001 <.	.001	<.001	<.0	1 <.	01 <.	01 <	.01
JAN		.001	<.001	<.001	<	.01 <	.001 <.	.001	<.001	<.0	1 <.	01 <.	01	.01
	T	REX. T	PARA- HION.	PER- THANE TOTAL	TO. APHEI TOT (UG.	NE TH	ION TO	TAL	2, 4-DP TOTAL (UG/L)	2,4,5 TOTAL (UG/L	. TOTA	L FLUOR	O- PHY K- PLA TO O CHRO OM FLUO	YTO- ANK- ON OMO
OCT		G/L) ((UG/L)	(UG/L)	100	, , , , , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
		.00	.00	.00		.0	• 0 0	.02	.00			00 13.9		.510
		<.01	<.01	<.01			<.01	.02	.00			00 4.1		.000
	2	<.01	<.01	<.01		<.1	<.01	.04	.04			00 2.5		• 000
		<.01	<.01	<.01		<.1	<.01	<.01	<.01	<.(01 <.	.01 3.2	3	•000

< Actual value is known to be less than the value shown.

08012420 MERMENTAU RIVER AT LACASSINE REFUGE, NEAR LOWRY, LA (CE 70600)--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	TIME	TEMPER-	CHLO- RIDE: DIS- SOLVED
DATE		(DEG C)	AS CL
OCT			
06	0730	22.5	50
14	0730	21.5	120
27	0700 0700	19.0	500 25
NOV	0700	21.0	23
03	0700	16.5	160
23	0700	13.0	120
DEC	1211		
01	0700	13.0	40
08 15	0700	17.5 12.0	45 45
22	0700	18.5	70
29	0700	9.0	95
JAN			
05	0700	9.5	90
12	0700	8.5	85
19	0700	8.0	140
26 FEB	0700	11.0	56
02	0700	11.0	34
09	0700	10.0	48
18	0700	10.5	16
23	0700	14.0	22
MAR		12.0	
02	0700	17.0	21
16	0700	15.5 16.5	20 36
23	0700	15.0	90
30	0700	19.0	130
APR			
09	0700	21.5	30
13	0700	23.5	26
20	0700 0700	24.5	36 73
MAY	0700	23.3	13
04	0700	26.5	170
11	0700	21.5	29
18	0700	25.5	28
26 JUN	0700	25.0	78
01	0700	26.5	72
08	0700	28.0	32
15	0700	26.0	29
55	0700	29.0	18
29	0700	28.5	55
JUL	0700	24 5	
13	0700	26.5 28.5	28 16
20	0700	30.0	14
27	0700	30.5	16
AUG			
03	0700	30.5	22
10	0700	29.5	55
17	0700	30.0	26
31	0700	24.0	83
SEP.	0,00	21.5	93
08	0730	28.5	71
14	0700	28.5	110
29	0700	27.5	64

295600093053000 INTRACOASTAL WATERWAY AT GIBBSTOWN, LA (CE 76873)

LOCATION.--Lat $29^{\circ}56'00"$, long $93^{\circ}05'30"$, T.13 S., R.6 W., Cameron Parish, Hydrologic Unit 08080202, at State Highway 27 crossing at Gibbstown and at mile 220.0 (354.0 km).

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: October 1976 to October 1978, December 1979 to current year. CHLORIDE: October 1974 to November 1978, December 1979 to current year.

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 32.0°C Aug. 17, 18, 1978; minimum daily, 5.0°C Jan. 21, 1978.
CHLORIDE: Maximum daily, 4,300 mg/L Oct. 4, 1980; minimum daily, 10 mg/L May 19, 21, 23, 26, 27, 1980.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURES: Maximum daily, 31.0°C Aug. 27, 30, Sept. 1, 2, 4, 10, 21; minimum daily, 6.0°C Dec. 10. CHLORIDE: Maximum daily, 4,300 mg/L Oct. 4; minimum daily, 33 mg/L July 7.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

DAY	oct	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.0	13.0		14.0	13.0	15.0	18.5	20.0	27.5	29.5	29.5	31.0
2	25.0	13.0	3.0	14.0	13.0	15.0	18.5	20.0	28.0	30.0	30.0	31.0
3	25.0	13.0	8.0	13.5	13.5	15.0	18.5	21.0	28.5	29.5	30.0	30.5
4	25.0	13.0	6.5	13.5	14.0	15.0	18.0	21.0	29.0	30.0	30.5	31.0
5	25.0	12.0	11.5	14.0	12.0	15.0	18.5	21.0	29.0	29.0	30.5	30.5
6	25.0	13.0	13.0	14.5	16.0	15.0	19.0	27.5	28.5	29.0	30.5	30.0
7	25.0	13.0	15.0	14.0	14.5	15.0	19.0	27.0	29.0	29.5	30.0	30.5
8	25.0	13.0	14.0	14.0	15.0	15.0	18.0	28.0	29.0	30.0	30.0	30.5
9	25.0	14.0		13.0	14.0	15.0	17.5	25.0	29.5	29.5	30.0	30.5
10	25.0	15.0	6.0	13.5	14.5	15.0	17.5	25.5	28.5	29.5	30.5	31.0
11	25.0	15.0	7.5	9.5	10.0		18.0	26.5	29.5	29.0	30.0	30.5
12	25.0	15.0	10.0	9.0	10.0	15.0	18.0	27.5	29.5	29.5	30.0	30.0
13	18.0	13.0	12.0	9.0	12.5	14.0	18.0	28.0	29.0	30.5	29.5	29.5
14	18.0	13.0	10.5	14.0	11.0	14.0	17.5	27.0	29.0	30.5	30.5	30.0
15	18.0	13.0	10.0	14.0	13.0	14.0	17.5	26.5	29.5	30.5	30.5	29.5
16	18.0	13.0	11.0	15.0	14.0	14.0	18.0	27.0	29.5	30.5	30.0	30.5
17	18.0	7.0	16.5	15.0	13.0	14.0	18.0	26.5	29.0	30.0	29.5	30.5
18	18.0	7.0	13.5	15.0	14.0	14.0	18.0	27.5	28.0	29.5	30.0	29.0
19	18.0	7.0	7.0	15.0	14.5	14.0	18.0	26.5	29.0	30.5	30.0	29.0
20	18.0	7.0	8.0	15.0	15.0	14.0	18.0	26.5	29.0	29.5	29.0	30.0
21	18.0	7.0	7.0	14.0	15.0	14.0	18.5	26.0	29.5	30.0	30.5	31.0
22	18.0	10.0		15.0	15.5	14.0	19.0	27.0	29.0	30.0	29.5	30.5
23	18.0	10.0		14.0	15.5	14.0	19.0	27.0	28.0	30.5	29.0	30.5
24	18.0	10.0		12.0	15.5	14.0	19.0	27.5	28.5	29.0	28.5	30.5
25	13.0	9.0		12.0	15.5	17.5	19.0	26.5	28.5	30.0	30.0	30.5
26	13.0	8.0	11.5			18.0	19.0	27.5	29.5	30.5	30.5	30.0
27	13.0	7.0	12.5	14.5		18.0	19.0	27.0	29.5	29.0	31.0	30.0
28	13.0	10.0	13.0	14.5		18.0	19.0	26.5	28.5	30.5	30.5	30.0
29	13.0	12.0	10.5	15.0		18.0	20.0	26.5	29.0	30.0	30.5	30.5
30	13.0	13.0	10.0	15.0		18.0	19.0	27.0	29.5	30.5	31.0	30.0
31	13.0		10.5	15.5		17.5		27.5		30.0	30.5	
MAX	25.0	15.0	16.5	15.5	16.0	18.0	20.0	28.0	29.5	30.5	31.0	31.0
MIN	13.0	7.0	6.0	9.0	10.0	14.0	17.5	20.0	27.5	29.0	28.5	29.0

295600093053000 INTRACOASTAL WATERWAY AT GIBBSTOWN, LA (CE 76873) -- Continued

CHLORIDE, DISSOLVED (MG/L), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 UNCE-DAILY

					01	ACE-DAILY						
DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3500	2200	1300	220	110	520	840	940	3600	420	260	320
2	3700	2600	1300	210	150	570	860	920	3600	480	280	310
3	3600	2600	800	240	130	620	830	1000	1700	350	250	320
4	4300	2600	800	210	130	560	820	940	1800	420	260	300
5	3900	2400	900	220	130	540	860	990	1700	360	550	300
6	3800	2600	800	120	110	550	910	100	1800	41	260	310
7	4100	5500	800	360	120	530	820	100	1900	33	280	310
8	3600	5500	900	260	130	520	1000	110	1600	40	270	330
9	3400	2400	700	260	120	330	960	110	200	40	260	330
10	3800	2100	800	260	120	360	940	90	610	41	260	340
11	3700	2400	800	280	130		980	85	550	36	280	390
12	2800	2300	500	250	98	1500	860	88	620	97	300	420
13	2800	2300	400	250	110	290	920	90	860	100	300	390
14	3000	2300	400	730	84	310	920	90	800	100	340	370
15	2900	5500	400	760	79	300	920	82	340	240	340	390
16	3800	2400	400	590	70	300	930	86	280	240	340	330
17	2600	2300	200	680	73	300	920	82	240	170	350	330
18	2700	2300	300	530	75	300	940	93	230	240	330	330
19	2600	2600	230	600	75	300	920	82	520	230	350	330
20	2700	2700	550	540	490	310	950	1100	220	230	340	330
21	2700	2500	230	220	490	300	920	1200	220	230	340	260
55	2700	2400	280	320	490	300	1000	1200	210	230	340	260
23	3700	2600	280	240	490	540	920	2000	210	170	340	270
24	2600	2600	280	260	500	600	1000	1200	220	180	340	200
25	2700	2600	290	260	490	600	1000	1200	210	530	340	300
26	2600	2600	290			560	950	1200	280	230	300	300
27	2500	1300	280	280		640	930	3500	250	230	310	300
28	2600	700	290	280		560	940	1700	270	240	330	300
29	2600	1800	290	630		510	930	3600	270	270	310	300
30	2600	1300	230	580		650	900	3500	270	210	300	300
31	2200		220	140		650		3600		280	330	
MAX	4300	2700	1300	760	500	1500	1000	3600	3600	480	350	420
MIN	5500	700	200	120	70	290	820	82	200	33	550	260

MERMENTAU RIVER BASIN

295531092574500 GULF INTRACOASTAL WATERWAY AT LAKE MISERE, NEAR HAYES, LA (CE 96131)

LOCATION.--Lat 29°55'31", long 92°57'45", T.13 S., R.5 W., Cameron Parish, Hydrologic Unit 08080202, 12.8 mi (20.6 km) south-southwest of Hayes.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--Water years 1978 to January 1981 (discontinued).

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT												
30	1110	1140	7.5	30	20	<1.0	9.4	31	1.3	K80	K15	150
20	1350	3400	7.2	10	30	<1.0	10.6	40	1.4		K25	350
DEC 12	1315	1730	7.1	30	60	<1.0	8.9	41	1.2	K160	160	180
JAN 22	1230	8470	7.3	30	200	<1.0	11.2	50	1.6	140	K72	990
22	1230	8470	1.3	30	200	11.0	11.2	50	1.0	140	NIZ	990
DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN; NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NOZ+NO3 TOTAL (MG/L AS N)
OCT	7.2	22	23	180	10	79	42	310	29	.00	.01	.01
30	73	23										
20 DEC	320	36	62	530	20	25	140	980	73	.01	•00	.01
12	150	22	31	270	10	30	70	490	144	.14	.02	.16
22	920	65	200	1400	49	64	360	2700	68	.00	.00	.00
DATE	NITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM- DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)
OCT												
30	.79	.17	5	1	0	<1	1	<1	0	0	2	2
20	.67	.04	0	0	0	0	0	0	0	0	6	5
DEC 12	.83	.05	1	0	0	<1	0	2	10	0	5	2
JAN 22	.89	.07	1	0	0	0	0	0	20	0	6	2

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

295531092574500 GULF INTRACOASTAL WATERWAY AT LAKE MISERE, NEAR HAYES, LA (CE 96131)--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON, DIS- SOLVED (UG/L AS FE)	REC ERA	TAL L COV- ABLE S G/L (EAD, DIS- OLVED UG/L	ERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERC DI SOL (UG AS	URY T S- R VED E /L (CKEL, OTAL ECOV- RABLE UG/L S NI)	DI 50 (U	S- LVED G/L	SELE- NIUM, TOTAL (UG/L AS SE	NI SC (U	UM, IS- F LVED E	RABLE UG/L	ZINC. DIS- SOLVE (UG/L AS ZN	OR D T	RBON, GANIC OTAL MG/L S C)
OCT 30	30		2	1	• 1		• 0	5		0)	0	10		4	
NOV 20	30		3	0	.0		. 0	3		2)	0	10		0	9.2
DEC 12	30		6	0	•2		•1	4		0)	0	20		9	12
JAN 22	30		6	0	• 1		. 0	4		0)	1		2	0	14
DAT	CYAN: TOTA (MG/	AL /L	PHENOLS	METRI	• PC	CB TAL 'L')	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRI TOTA	AL	CHLOR DANE, TOTAL (UG/L	TO	DDD, DTAL UG/L)	DDE. TOTAL (UG/L)	DDT,	AZ	DI- INON, OTAL UG/L)	
ост																	
30. NOV		• 0 0	0		0	.0	• 0		00		0	.000	.000			.00	
DEC		• 00	0			<.1	<.1			٠.		.001	<.001			.01	
JAN		• 00	0			<.1	<.1	<.0	01	٠.	1 <	.001	<.001	<.00	1	<.01	
22.	••	•00	2		0		7			•	-		-				
DAT	DI ELDF TOTA	RIN	ENDO- SULFAN• TOTAL (UG/L)	TOTAL	.10.	ION• TAL 3/L)	HEPTA- CHLOR, TOTAL (UG/L)	EPOX I	DE AL	LINDAN TOTAL (UG/L	E TH	ALA- HION, OTAL JG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	TOTAL	, T	ETHYL TRI= HION, OTAL UG/L)	
OCT 30.		000	.000	.00	0	.00	.000	.0	000	.00	0	.00	.00	.0	0	.00	
NOV 20.		001	<.001	<.00	1 .	<.01	<.001	<.0	01	<.00	1	<.01	<.01	<.0	1	<.01	
DEC 12		001	<.001	<.00	1	<.01	<.001	<.0	001	<.00	1	<.01	<.01	<.0	1	<.01	
JAN 22.					-					-	-				-		
DA		TAL	PARA- THION: TOTAL (UG/L)	TOTAL	APH TO	OX- ENE, TAL G/L)	TOTAL TRI- THION (UG/L)	2•4• TOT; (UG.	AL	2. 4-D TOTAL (UG/L)	, T	4,5-T DTAL JG/L)	SILVEX TOTAL (UG/L	FLUORO	- P	LOR-B HYTO- LANK- TON ROMO UOROM UG/L)	
OCT 30.		.00	.00	.0	0	. 0	.00)	.02	.0	0	.01	.0	13.8		2.59	
NOV 20	5.75	.01	<.0			<.1	<.0		.00	.0		.00	.0	9.19		.000	
DEC		.01	<.0			<.1	<.0		.00	.0		.00	.0	6.24		.000	0
JAN					-		_		.00	.0		.00	.0	2.06		.000	i
22		175															

< Actual value is known to be less than the value shown.

166

MERMENTAU RIVER BASIN

295148092510100 MERMENTAU RIVER NORTH OF CATFISH POINT CONTROL STRUCTURE, NEAR GRAND CHENIERE, LA

LOCATION.--Lat 29°51'48", long 92°51'01", T.14 S., R.5 W., Cameron Parish, Hydrologic Unit 08080202, on northwest fender of structure and 9.8 mi (15.8 km) northeast of Grand Cheniere.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD .-- Water years 1975 to current year.

PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: October 1976 to October 1978, December 1979 to current year. CHLORIDE: October 1974 to October 1978, December 1979 to current year.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey. Corps of Engineers station 70675.

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: Maximum daily, 33.0°C July 25, 1981; minimum daily, 4.0°C Jan. 20, 21, 1978. CHLORIDE: Maximum daily, 13,000 mg/L May 22, 1981; minimum daily, 5.0 mg/L Apr. 8, 16, 1980.

EXTREMES FOR CURRENT YEAR .--

WATER TEMPERATURES: Maximum daily, 33.0°C July 25; minimum daily, 5.0°C Jan. 13. CHLORIDE: Maximum daily, 13,000 mg/L May 22; minimum daily, 120 mg/L Feb. 25.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.0	20.0	13.0	10.0	16.0	15.0	22.0	24.0	27.0	30.0		29.0
2	24.0	20.0	13.0	10.0	11.5	15.0	20.0	24.5	27.0	30.0		28.5
3	24.0	20.0	13.0	10.5	5.5	15.0	20.5	23.5	27.0	27.0		28.0
4	24.0	20.0	13.0	9.0	9.0	15.0	21.5	23.0	27.0	27.5		
5	24.0		13.0	9.0	8.5		20.0	24.0	27.0	28.0		28.0
6	24.0	19.0	17.0	9.5	7.5	15.0	20.0	22.0	28.0	27.5		27.5
7	24.0	19.0	17.0	10.5	10.5	15.0	20.0	23.0		28.0	30.0	28.5
8	24.0	19.0	17.0	9.0	10.5	15.0	20.0	22.0		29.0		28.5
9	24.0	19.0	17.0	10.5	10.5	15.0	21.0	24.0	28.0	30.5		29.5
10	24.0	19.0	13.0	11.0	13.0	15.0	22.5	21.0		31.0		27.5
11	24.0	19.0	13.0	9.0	6.0	16.0	23.0	21.0			30.0	28.0
12	24.0	19.0	13.0	6.0	5.5	16.0	24.0	21.0				29.0
13	23.0	19.0	13.0	5.0	6.0	15.0	24.0	23.0	27.5			28.5
14	23.0	17.0	13.0	7.5	6.5	15.0	23.5	27.0	27.5			29.0
15	23.0	17.0	13.0	8.0	8.0	15.0	23.0	23.0	28.0		31.5	28.0
16	23.0	13.0	13.0	9.0	9.5	15.5	23.0	25.0	28.5	444	31.5	26.5
17	23.0	13.0		7.0	10.5	16.0	25.0	24.0	29.5	31.0		25.0
18	22.0	13.0		6.0	11.0	18.0	24.5	23.0	30.5			23.0
19	22.0	13.0	14.0	7.0	12.5	14.5	24.0	25.0	30.0			20.0
20	55.0	13.0	10.0	6.0	14.0	14.0	24.5	23.0				21.0
21	200	11.0		7.0	14.0	15.0	24.0	23.0		31.5		23.5
55	21.0	11.0	7.0	8.0	15.0	15.0	24.0	24.0				24.0
23	21.0	11.0	8.0	6.5	13.5	15.0	25.0	24.0				27.0
24	21.0	11.0	11.5	8.5	13.0	14.5	25.0	25.0	29.0		30.0	27.0
25	20.0		7.5	9.5	15.0	16.0	22.5	25.0	29.0	33.0	29.5	27.0
26	20.0		8.0	11.0	15.0	18.0	22.0	23.0	28.0	32.5	30.0	27.5
27	20.0			13.0	15.0	18.5	24.5	25.5	29.5	30.0	29.5	26.0
28	20.0	11.0	8.5	11.0	15.0	18.0	23.5	26.0		29.0	29.5	28.0
29	20.0	11.0	8.0	13.0		20.0	24.5	26.0		30.0	28.5	28.5
30	20.0	11.0	8.5	15.0		19.5	25.0	29.0	30.0	29.5	28.0	28.5
31	20.0		8.5	12.5		21.0		28.0			28.0	
MAX	24.0	20.0	17.0	15.0	16.0	21.0	25.0	29.0	30.5		222	29.5
MIN	20.0	11.0	7.0	5.0	5.5	14.0	20.0	21.0	27.0			20.0

295148092510100 MERMENTAU RIVER NORTH OF CATFISH POINT CONTROL STRUCTURE, NEAR GRAND CHENIERE, LA--Continued

			CHLORIDE.	DISSOLVED		WATER YEAR	OCTOBE	R 1980 TO	SEPTEMBER	1981		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		800	900	520	1000	220	720	2200	5100	290		5000
2	3700	900	600	510	3600	230	1300	1500	2300	250		2400
3	1800	900	700	470	570	210	1200	990	5500	550		1200
4	2000	900	800	490	500	490	6600	1300	5200	180		
5	2700		800	530	510		870	3100	5200	170		3800
6	1100	800	800	470	490	210	720	11000	2200	170		2900
7	1500	800	700	670	430	410	3200	5200		170	140	2100
8	2700	900	700	500	400	260	540	12000		170		1700
9	2700	800	2200	590	370		1000	1200	1300	170		1100
10	1500	800	800	510	500	420	570	1600		140		700
11			700	610	380	300	630	1700			170	600
12	1500	900	700	580	330	330	710	6900				1300
13	1300	800	600	600	330	260	8100	1600	820			1600
14	1300	3900	700	590	350	440	1500	2200	860			2100
15	1300	1300	600	630	320	580	1200	1500	580		160	1500
16		1600	600	580	270	570	3800	1500	460		170	910
17	2700	2400		580	270	620	5500	1400		130		610
18	5900	1800		570	300	530	1700	9000	8800			670
19	3400	1300	620	550	300	900	1400	11000	8600			590
20	1000		710	500	310	350	2300	10000				520
21	1000	1200	660	560	180	360	2000	12000		140		670
55		1200	620	520	160	1700	1200	13000				940
23		1100	670	500	160	520	3600	1400				570
24	1100	1100	600	550	170	570	3800	980	220		3100	610
25	1000		400	500	120	620	790	3500	550	170	3200	620
26			500		140	520	9500	2900	200	290	5600	560
27	1000		360	540	550	520	9700	2000	270	1100	6600	650
28	2200	800	550	600	550	480	990	12000		1100	3600	650
59	1100	1000	450	420		1000	1100	12000		430	1200	620
30	900	800	430	560		910	6500	4600	210	520	2400	620
31	900		470	1300		1800		12000			7700	
MAX	3700	3900	2200	1300	3600	1900	9700	13000	222	255	222	5000
MIN	900	800	360	420	120	210	540	980				520

168

MERMENTAU RIVER BASIN

295146092510100 MERMENTAU RIVER SOUTH OF CATFISH POINT CONTROL STRUCTURE, NEAR GRAND CHENIERE, LA

LOCATION.--Lat 29°51'46", long 92°51'01", T.14 S., R.5 W., Cameron Parish, Hydrologic Unit 08080202, on southwest fender structure, 9.8 mi (15.8 km) northeast of Grand Cheniere.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1975 to current year.

PERIOD OF DAILY RECORD .--

WATER TEMPERATURES: October 1976 to October 1978, December 1979 to current year. CHLORIDE: October 1974 to October 1978, December 1979 to current year.

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey. Corps of Engineers station 70750.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURES: Maximum daily, 34.0°C July 12, 1981; minimum daily, 4.0°C Jan, 21, 22, 1978.
CHLORIDE: Maximum daily 13,000 mg/L July 25, 1980, June 1 1981; minimum daily, 8.0 mg/L Jan. 17, 21, 23,

EXTREMES FOR CURRENT YEAR.-WATER TEMPERATURES: Maximum daily, 34.0°C July 12; minimum daily, 5.0°C Jan. 13.
CHLORIDE: Maximum daily, 13,000 mg/L June 1; minimum daily, 94 mg/L July 12.

TEMPERATURE,	WATER	IDEG.	C) ,	WATER	YEAR	OCTOBER	1980	TO	SEPTEMBER	1981
			ON	CF-DATI	_ Y					

DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.0			10.0	16.0	17.0	22.0	24.0	27.0		30.0	29.5
2	24.0			10.0	11.5	17.0	20.0	24.5	27.0	30.5	30.5	29.0
3	24.0			10.5	5.5	17.0	20.5	23.5	27.0		30.5	28.5
4	24.0			9.0	9.0	17.0	21.5	23.0	27.0		30.5	28.0
5	24.0	19.0		9.0	8.5		20.0	24.0	27.0		30.0	
6	24.0	19.0		9.5	7.5	16.0	20.0	22.0			30.0	27.0
7	24.0	19.0		10.5		16.0	20.0	23.0	26.0			29.0
8	24.0	19.0		9.5		16.0	20.0	22.0	26.0		30.0	30.0
9	24.0	19.0		10.5		16.0	21.0	24.0			29.5	30.0
10	24.0	19.0		11.0		16.0	22.5	21.0	27.0		31.0	28.0
11	24.0	19.0		9.0		16.0	23.0	21.0	27.0	30.0		27.5
12	24.0	19.0		6.0		16.0	24.0	21.0		34.0	30.0	27.5
13	23.0	19.0		5.0		16.0	24.0	23.0		30.0	32.0	28.0
14	23.0	17.0		7.5		16.0	23.5	22.0		30.5	31.0	29.0
15	23.0	17.0		8.0		16.0	23.0	23.0		31.0	32.0	
16	23.0	13.0		9.0		15.5	23.0	25.0		30.0		
17	23.0	13.0		7.0		16.0	25.0	24.0				
18	22.0	13.0		6.0		18.0	24.0	23.0		30.5		
19	25.0	13.0		7.0		14.5	24.5	25.0		31.0		
20	22.0	13.0		6.5		14.0	25.0	23.0	30.5	31.0		
21	21.0	10.0		7.0		15.0	24.0	23.0	30.5		29.0	
55	21.0	12.0		8.0		15.0	24.0	24.0	30.5		32.0	24.5
23	21.0	13.0		6.5		15.0	25.0	24.0	30.5	31.5	32.0	
24	21.0	12.0		8.5		14.5	25.0	25.0		32.0	30.0	
25	55.0	12.0		9.5		16.0	22.5	25.0			30.0	
26	20.0	10.0		11.0		18.0	22.0	23.0			30.0	
27	20.0	9.0		13.0		18.5	24.5	25.5	29.0		30.0	
28	20.0	9.0		11.0		18.0	23.5	26.0	30.0		30.0	
29	20.0			13.0		20.0	24.5	26.0			30.0	28.0
30	20.0			15.0		19.5	25.0	29.0			29.0	28.0
31	20.0			12.5		21.0		28.0		29.0	29.0	
MAX	24.0	19.0		15.0		21.0	25.0	29.0			32.0	
MIN	20.0	9.0		5.0		14.0	20.0	21.0			29.0	

295146092510100 MERMENTAU RIVER SOUTH OF CATFISH POINT CONTROL STRUCTURE, NEAR GRAND CHENIERE, LA--Continued

CHLORIDE, DISSOLVED (MG/L), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 ONCE-DAILY

					•	TOL DATE!						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	NUL	JUL	AUG	SEP
1	3600			510	2600	240	4000	10000	13000		390	7900
2	3800			590	3300	220	6800	11000	12000	300	330	8100
3	2100			510	4000	230	5500	10000	12000		280	7900
4	3800			470	3300	250	4200	11000	12000		240	2900
5	3800	900		540	2900		6500	11000	12000		500	
6	4600			680	400	860	5800	12000			190	1600
7	4100			1000		1500	6800	12000	2900			1600
8		800		2100		2400	6400	10000	2600		120	1500
9	3700	800		3400			6000	12000			160	1200
10	3500	800		4000		500	3700	12000	2000		140	690
11		1600		1500		510	6600	11000	1000	100		590
12	3600	4400		4900		1900	6400	2000		94	150	1400
13	4000	7600		3300		2000	6300	11000		130	150	1900
14	3400	9800		2700		2100	7100	8900		110	150	1200
15	3600	9600		2800	777	2000	7300	12000		120	150	
16	3500	10000		3200		2300	7600	11000		130		
17	3500	10000		2800		1100	7900	11000				
18	3200	10000		2600		5000	7800	11000		140		
19	4500	9800		2500		1800	8200	3100		150		
20	1200			3100		1600	8200	1600	4100	150		
21	2500			1200		1400	8400	7100	4200		340	
55				1500		1600	6300	12000	1400		310	1100
23		5800		520		3200	7500	12000	230	140	310	
24		6300		1000		1200	7100	12000		120	790	
25	1200	7300		1100		1500	9300	11000			5600	
26	1200	3200				640	750	12000			5700	
27	1600	1000		990		1500	950	12000	380		7200	
28	2500	1000		2400		1600	10000		310		1500	
29	3700			2400		1400	9800	15000			8500	630
30	4400			1700		1600	9900	12000			8000	980
31				2100		1500		3100		420	3700	
MAX	4600			4900		3200	10000	12000			8500	
MIN	1200			470		550	750	1600			120	

170

MERMENTAU RIVER BASIN

294630092533500 MERMENTAU RIVER AT UPPER MUD LAKE, NEAR GRAND CHENIERE, LA (CE 70375)

LOCATION.--Lat 29°46'30", long 92°53'35", T.15 S., R.5 W., Cameron Parish, Hydrologic Unit 08080202, at center of Upper Mud Lake and 4.5 mi (7.2 km) east-northeast of Grand Cheniere.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- Water years 1978 to January 1981 (discontinued).

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- 8ID- ITY (NTU)	SETTLE- ABLE MAITER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT												
30	1055	8620	7.5	10	15	<1.0	10.0	89	1.2	K70	K25	930
20	1401	20800	7.6	20	15	<1.0	10.8	120	2.8		K80	2500
12	1304	3000	7.4	20	30	<1.0	10.7		1.5		54	300
JAN 22	1240	572	1.2	100	150	<1.0	11.6	130	2.5		кв	65
DATE	HARD- NESS. NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM. DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS. RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN; NITRATE TOTAL (MG/L AS N)	NITRO- GEN. NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
	CACOST	AS CAT	ДЗ 14177	A3 (1A7	AS N	CACOST	A3 3047	AS CL	(MO/L/	A3 147	AS W	45 147
30	880	74	180	1500	62	48	390	2800	54	• 00	.00	.00
20	2400	180	490	3900	140	85	820	7500	59	• 0 0	.01	.01
12 JAN	250	30	55	490	17	47	110	870	63	• 0 0	.01	.01
22	37	7.8	11	81	4.1	28	24	140	380	•12	.03	.15
DATE	NITRO- GEN.AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL (UG/L A5 CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL (UG/L AS CH)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER. TOTAL (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)
OCT												
30 NOV	1.3	.13	1	0	0	0	4	0	10	0	4	2
20 DEC	.87	.07	0	0	10	0	0	1	30	0	6	3
12 JAN	1.0	.02	1	0	.0	0	0	0	10	0	8	5
22	1.1	• 05	2	0	0	0	0	0	0	0	9	3

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

294630092533500 MERMENTAU RIVER AT UPPER MUD LAKE, NEAR GRAND CHENIERE, LA (CE 70375)--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON DIS SOLV (UG/ AS F	- L ED T L (EAD, OTAL UG/L S PB)	DIS SOLV (UG/	VED YL	ERCU TOTA (UG/	IRY D	CURY 15- LVED G/L HG)	NICH TOT (UC	KEL,	(U	VED T	ELE- IUM, OTAL UG/L S SE)	50L	JM • IS - Z LVED T	INC, OTAL UG/L (S ZN)	50L	NC . IS- LVED 3/L ZN)	CARBON ORGANI TOTAL (MG/L AS C)	C
ост								0				0	(0	20		20	_	_
30		40	8		1		• 1	.0		4								30		-
20 DEC		70	4		0		• 0	. 0		6		1	(0	40				
12		40	4		0		• 0	. 1		5		0	(0			30	12	
22	1	40	14		3		•2	. 1		9		0	()	0	30		10	27	
DAT		YANIDE TOTAL (MG/L AS CN)	PHENO (UG/	LS	JIL ANI GREASE TOTAL RECOV GRAVI METRI (MG/L	· -	PCB TOTAL (UG/L)	NAPI TH. LENI POI CHL TOT (UG	A- ES. LY- OR.	ALDRI TOTA (UG/	L	CHLOR- DANE, TOTAL (UG/L)	10	DDD • DTAL DG/L)	DDE + TOTAL (UG/L)	DD TOT (UG	AL	DI AZIN TOT (UG	ON.	
OCT 30.		.00		0		0	. 0		. 0	.0	00	.0		.000	.000		000		.01	
NOV 20.		.00		1		0	<.1		<.1	<.0	01	<.1		.001	<.001	<.	001		.01	
DEC									<.1	<.0		<.1		.001	<.001	<.	001		.01	
JAN		.01		0		0	<.1								<.00		001		.01	
22.	•••	.00		1		1	<.1		<.1	<.0	01	<.1		<.001	1.00		001			
DA [*]	TE	DI- ELDRIN TOTAL (UG/L)	TOTA	AN.	ENDRIN TOTAL (UG/L		EIHION, IOTAL (UG/L)	TOT	TA- OR, AL	HEPI CHLC EPOXI TOTA (UGA	DE DE	LINDANI TOTAL (UG/L	T T	ALA- HION, OTAL UG/L)	METH- OXY- CHLOR TOTAL (UG/L	, THI	ON,	TH: TH: TO:	THYL RI- LON, TAL G/L)	
001		.00	0 (000	.00	0.0	.00		000	. (000	.00	0	.00	.0	0	.00		.00	
NOV		<.00		001	<.00		<.01		001		001	<.00		<.01	<.0	1 .	.01		.01	
DEC					<.00		<.01		001		001	<.00		<.01	<.0	1 .	.01		.01	
JAN		<.00		001							001	<.00		<.01	<.0		.01		<.01	
55	•••	<.00	1 <.0	001	<.00)1	<.01	<,	.001	٠.	001	2.00	1				•••			
			0.0		250		Toy-	To	r a l							PH	OR-A YTO- ANK-	PH	OR-B YTO- ANK- ON	
DA	TE	MIRFX TOTA (UG/L	L TOT	ON.	THANK TOTAL (UG/I		TOX- APHENE • TOTAL (UG/L)	TH:	TAL RI- ION G/L)	2,4 TOT (UG	AL	2, 4-D TOTAL (UG/L)	1	4,5-T OTAL UG/L)	SILVEX TOTAL (UG/L	• CHR		CHR		
		.0	0	.00		0 0	. 0		.00		.00	.0	0	.00	• 0	0 12	. 4		.000	
		<.0	1 <	.01	<.	01	<.1		<.01		.00	.0	0	.00	• (0 6	•59	4	. 05	
DEC 12		<.0	1 <	.01	٧.	01	<.1		<.01			-	-			- 8	.05		.000	
JAN		<.0	1 4	.01	۷.	01	<.1		<.01	<	.01	.0	1	<.01	<.0	1 13	.2		.000	

< Actual value is known to be less than the value shown.

172 CALCASIEU RIVER BASIN

300533093193000 CALCASIEU LAKE AT GULF INTRACOASTAL WATERWAY NEAR HACKBERRY, LA (CE 73646)

LOCATION.--Lat 30°05'33", long 93°19'30", T.11 S., R.9 W., Calcasieu Parisn, Hydrologic Unit 08080206, at Gulf Intracoastal Waterway, 6 mi (9.7 km) north of Hackberry.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD. -- June 1981 to September 1981.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- CORALT UNITS)	TUR- RID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
JUN 10	1530	2310	6.5	28.5	60	4.0	<1.0	4.3	38	•5	K130	K20
12	1230	50500	7.6	31.5	50	3.0	<1.0	7.0	43	4.2	K50	<10
DATE	HARD- NFSS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM. DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)
JUN 10	270	250	46	37	340	12	19	110	630	44	.02	•02
12	5500	2100	150	440	3600	110	70	870	6600	12	.00	•13
DATE	NTTRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS RE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM. TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM. HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)
JUN 10	.04	.84	.10	1	1	0	0	2	0	10	0	10
12	.13	1.5	.12	2	2	10	0	1	1	10	0	17

 $^{^{&}lt;}$ Actual value is known to be less than the value shown. K Results based on colony count outside the acceptable range (non-ideal count).

CALCASIEU RIVER BASIN 173

300533093193000 CALCASIEU LAKE AT GULF INTRACOASTAL WATERWAY NEAR HACKBERRY, LA (CE 73646)--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	COPPER. DIS- SOLVED (UG/L AS CU)	50 (U	ON. IS- LVFD G/L	RECOV-	LEAD. DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCUR DIS- SOLVE (UG/L AS HG	Y TO RE D EA	RABLE S	IS- OLVED UG/L	SELE - N NIUM: TOTAL S (UG/L	DIS- SOLVED S	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUN 10	5		170	0	2	• 1		1	4	2	0	0	30	6.2
17	3		50	15	0	• 1		1	2	2	0	0	30	7.9
DAT	CYAN TOT (MG	۸L	PHENOL:	METRI	- PCR C TOT	LFN POL CHL AL TOT	IA- IES. Y- OR. AL	DRIN, OTAL UG/L)	CHLOR- DANE: TOTAL (UG/L)	DDD. TOTAL (UG/L	DDE. TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI AZIN TOT (UG	ON.
JUN 10.		.00		0	0 <	.1 <	.1	<.001	<.1	<,000	<.001	<.001		.02
AUG 12.		.02		2	0 <	.1 <	.1	<.001	<.1	<.00	<.001	<.001	Ĺ	.05
DAT	nj Flo Tot	RIN	ENDO- SULFANO TOTAL (UG/L)	TOTAL	101	AL TOT	TA- COR, EP	EPTA- HLOR OXIDE OTAL UG/L)	LINDANE TOTAL (UG/L)	MALA- THION TOTAL (UG/L)	TOTAL	TOTAL	TR THI TOT	HYL I= ON, AL /L)
JIN 10.	<.	001	<.00	1 <.00	1 <	.01 <.	001	<.001	<.001	• 0	3 <.01	<.0	1 <	.01
AUG 12.		001	<.00	1 <.00	1 <	.01 <.	001	<.001	<,001	<.0	<.01	<.0	1 <	.01
DAT	TO	PFX, TAL (/L)	PARA- THION TOTAL (UG/L)	TOTAL	APHE	NE TR	ON 1	,4-D, OTAL UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5- TOTAL (UG/L)	TOTAL	FLUORO	PHY PLA TO CHRO	TO- NK- N MO
JUN 10.		.01	<.0	<.0	1 <	.1 <	.01	.08	<.01	.02	2 <.01	1.01		000
AUG 12.		.01	<.0				.01	<.01	<.01	<.0	1 <.01	25.4		000

< Actual value is known to be less than the value shown.

CALCASIEU RIVER BASIN

295040093204000 CALCASIEU PASS AT ST. JOHN ISLAND, NEAR CAMERON, LA (CE 73649)

LOCATION.--Lat 29°50'40", long 93°20'40", T.14 S., R.10 W., Calcasieu Parish, Hydrologic Unit 08080206, 2.1 mi (3.4 km) northwest of Cameron.

DRAINAGE AREA. -- Indeterminate.

PERIOD OF RECORD.--Water years 1974 to January 1981 (discontinued).

COOPERATION. -- Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND. CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND. BIOCHEM UNINHIB 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT				-								
30	1020	24400	7.7	10	10	<1.0	10.6	120	2.1	K40	K10	3000
20	1508	34900	8.0	5	40	<1.0	9.5	180	1.5		< 5	4300
12 JAN	1203	30700	7.9	5	7.0	<1.0	13.6	200	5.0	K24	K8	3700
22	1330	37100	7.7	5	10	<1.0	10.5	230	2.1	К5	<4	4600
DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM. DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN; NITRITE TOTAL (MG/L AS N)	NITRO- GEN; NO2+NO3 TOTAL (MG/L AS N)
oct	- 12 A A A	22.5					1 243	4.000.00				
30	2900	210	590	4900	190	83	1100	9000	31	.09	.04	.13
20	4200	300	870	7000	210	106	1800	12000	185	.05	• 01	.06
12 JAN	3600	250	750	6700	210	94	1700	12000	43	.00	.01	.01
22	4500	300	930	7400	250	103	1900	14000	55	.00	.00	.00
DATE	NITRO- GEN+AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER. TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)
ост												
30	1.1	.16	1	1	10	10	5	0	30	0	4	3
20 DEC	.97	.08	- 1	0	10	10	0	0	40	0	8	3
12 JAN	.93	.01	0	0	10	10	1	0	50	0	5	2
22	.48	.03	1	1	10	10	0	0	60	0	5	3

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal count).

295040093204000 CALCASIEU PASS AT ST. JOHN ISLAND, NEAR CAMERON, LA (CE 73649)--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON DIS SOLV (UG/ AS F	/ED	ERA (UG	AL OV- BLE	SOL (UC	AD, IS- VED B/L PB)	TO'REG	CURY TAL COV- ABLE 3/L HG)	SOL (UG	S- VED	REI ER	KEL, TAL COV- ABLE G/L NI)	(U		TO (U	LE- JM, TAL G/L SE)	SOL	S- VED	ERA (UG	AL OV-	(UG	S- VED	CARE ORGA TOT (MG	ANIC FAL 3/L
OCT 30		80		6		1		.2		.0		4		0		0		0		50		30		
NOV		140		6		0		.0		.0		6		1		0		0		50		30		8.6
20						0						2		0		0		0		30		30		8.3
12 JAN		130		3				.7		.1		4		0		0		0		40		30		5.6
22	•	200		3		0		•1		• •		7.						U						
DAT		YANIC TOTAL (MG/L AS CN		PHENO		OIL GREA TOT REC GRA MET (MG	SE, AL OV. VI- RIC	PC TOT (UG/	AL	NAPH THA LENE POL CHLO TOTA (UGA	Y- OR.	ALDE TOT (UG		CHLO DANE TOTA (UGA	AL.	DDI TOTA (UGA	L	DDE TOTA (UG/	L	DDT TOTAL (UG/L	L	DI- AZINO TOT	ON.	
ост					0		0		. 0		.0		000		.0	. (000	.0	00	.00	0.0		.00	
30. NOV		• (0		.1		<.1		001		.1	<.(001	<.0	01	<.00	01	<	.01	
DEC.		• (0		0		.1		<.1		001		<.1		001	<.0		<.00			.01	
12. JAN 22.			00		6		0		.1		<.1		001		<.1		001	<.0		<.01			.01	
DA	TE	DI- ELDR TOTAL (UG/I		ENDO SULFA TOTA (UGA	AN.	ENDR TOT (UG		ETH1 T01 (U0		HEP CHL TOT (UG	OR,	EPO:	OTA- LOR (IDE TAL G/L)	LIND TOT (UG	AL	MAL THI TOT (UG	ON,	METH OXY CHLO TOTA (UG/	R.	METH PARA THIO TOTA (UG/	- N, L	MET TR THI TOT (UG	I- ON,	
ост		0.6	0.0		000		000		.00		000		000	. (000		.00		00		00		.00	
NOV		.00			001		001		.01		001		001		001		.01		01		01		.01	
DEC		<.00			001		001		<.01		001		.001		001		.01		01		01		.01	
JAN		<.00					001				001		001		001		.01		01		01		.01	
22	•••	<.00	01	<. (001	٠.	001		<.01		001		.001		001	,	•••						44.5	
		MIRE	х.	PAR THI		PE THA	R-		OX-	TOT		2,	4-D,	2, 4	-DP	2,4,		SILVE		CHLOR PHYT PLAN TON CHROM	0- IK- IO	PLA TO CHRO	TO- NK- N NO	
DA	TE	TOT (UG/	AL	TOT	AL	TOT		TO	TAL G/L)	THI (UG	ON	TO	TAL G/L)	TOT (UG/	AL	(UG		TOTA (UG/		FLUOR (UG/		FLU0		
0CT 30			00		.00		.00		.0		.00		.07		.00		.01		,00	8.9	7		000	
		<.	01	<	.01		.01		<.1	<	.01		.02		.00		.00		00	3.0	7		000	
		<.	01	<	.01		.01		<.1	<	.01		.01		.00		.00		00	25.0)		000	
JAN 22		۷.	01	<	.01		.01		<.1	<	.01		<.01	<	.01	<	.01	<	01	10.1		9	000	

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07385800 BAYOU TECHE NEAR FRANKLIN, LA (CE 64543)

		***************************************	CHLO- RIDE: DIS-
		TEMPER-	SOLVED
	TIME	ATURE	(MG/L
DATE		(DEG C)	AS CL)
OCT			
07	1100	20.0	50
14	1150	20.5	85
21	1100	19.0	46
NOV		77.7	
04	1305	19.0	60
12	1335	18.5	35
19	1350	18.5	40
26	1300	13.0	40
DEC		6.2	
01	1330	12.0	50
03	1000	12.5	45
17	1145	11.0	46
JAN			4.0
07	1335		41
14	1410		40
55	1400		42
FEB	1300	10.5	40
03	1400	9.5	40
MAR	1400	9.5	40
04	1300	12.5	32
11	1315	12.5	38
31	1135	24.0	39
APR	1133	24.0	3,4
08	1010	28.0	35
15	1030	23.0	39
21	0950	24.0	33
28	0945	22.0	26
MAY			
05	1040	22.0	24
19	0925	25.0	30
27	1000	23.0	32
JUN			
09	1400	28.5	34
16	0950	30.0	26
24	0945	28.5	30
30	0935	28.5	37
JUL	0070	20.5	1.4
08	0830	28.5	48
14	0830	31.5	26
22	0815	30.5	31
28	1320	28.5	24
AUG	0940	21 5	27
18	0835	31.5	.34
26 SFP	11023	27.3	.54
09	0850	29.5	40
16	0930	28.5	38
23	0835	26.5	42
30	0845	37.0	42
	******	2	

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

MISSISSIPPI RIVER DELTA

294520091232300 BAYOU TECHE AT VERDUNVILLE, LA (CE 64563)
WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	TEMPER-	CHLO- RIDE, DIS- SOLVED (MG/L
DATE		(DEG C)	AS CL)
OCT			
14	0920	20.0	45
21	0905	19.0	45
28	0900	21.0	55
NOV	2-25		
04	0905	19.0	35
12	1050	18.5	35
18	0850	18.5 13.0	45
25 DEC	0850	13.0	40
02	0840	12.5	50
09	1130	12.5	45
16	0900	11.0	45
JAN	0,00	11.0	43
13	1130		42
20	1115		40
FER			4.5
03	1050	10.5	41
11	1020	9.5	41
MAR			, .
03	1005	13.0	36
10	1035		30
18	0945	12.5	30
31	1145		110
APR			
07	0940	18.0	64
14	1035	22.0	80
21	0920	24.0	84
28	0930	22.0	32
MAY			
05	1010	23.0	24
13	1350	24.0	26
19	1000	23.0	32
27	0930	23.0	36
JUN	1020	27.5	
09	1030	27.5	28
16	0920	28.5	26
30	0935	28.5	32
JUL	0900	20.5	32
07	0940	29.0	36
14	0945	31.5	31
21	0935	30.0	30
28	1345	28.5	24
AUG	1343	20.5	24
04	0925	30.0	22
18	0920	31.5	28
25	0920	29.0	36
SEP			30
08	1015	28.5	38
15	1300	27.5	40
22	0930	25.5	37
29	1000	26.5	45
C 1 1 1 C			

MISSISSIPPI RIVER DELTA

07385900 BAYOU TECHE NEAR PATTERSON, LA (CE 64800)
WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	TEMPER- ATURE (DEG C)	CHLO- RIDE: DIS- SOLVED (MG/L AS CL)
OCT			
07	0730	20.0	50
14	0820	20.0	45
21	0800	20.0	50
28	0800	21.0	65
NOV			
04	0800	19.0	35
15	1115	18.5	35
25 DEC	1105	13.0	40
02	0820	12.5	50
09	0820	12.5	45
16	0755	11.0	40
JAN			
13	1215		42
20	1405		42
FER		2-7-2-7	
03	0910	10.0	41
11 MAR	1000	9.5	40
10	1050	12.5	32
17	0825	14.0	31
31	1200	22.0	34
31			34
07	1100	21.0	30
14	0905	25.0	38
21	0810	25.0	35
28	0825	24.0	34
MAY	0905	22 0	20
05 13	1240	23.0	28 27
19	1135	25.0	32
27	0825	25.0	28
JUN			
02	0905	27.0	32
09	0915	27.5	34
16	0815	30.0	31
24	0820	30.0	31
30	0815	28.5	29
07	0825	29.0	35
14	0835	31.5	34
21	0830	31.0	30
28	0845	28.0	27
AUG			
04	0820	31.0	28
11	0820	24.5	31
18	0830	31.0	31
25 SEP	0825	30.0	28
01	0825	30.0	34
08	0905	28.5	37
15	0830	29.0	34
22	0820	26.5	35
29	0850	28.0	36

MISSISSIPPI RIVER DELTA

293827091192200 INTRACOASTAL WATERWAY AT WAX LAKE (EAST) CONTROL STRUCTURE, NEAR PATTERSON, LA (CE 76440)
WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

			CHLO- RIDF, DIS-
		TEMPER-	SOLVED
	TIME	ATURE	(MG/L
DATE	0.70	(DEG C)	AS CL)
OCT			
07	1300	21.5	35
14	1310	20.0	45
21	1200	19.0	50
28	1100	21.0	45
NOV			
05	1050	19.0	35
12	0900	18.5	40
25	0900		45
DEC			
09	0915	12.0	45
16	1130	11.0	4.5
25	1000	13.0	45
JAN			
13	0910		41
20	0900		40
FER			
03	0810	11.0	40
11	0830	10.0	40
MAR	2000		
03	0800	13.5	36
10	0730	13.0	32
31	1225	21.0	44
07	1130	18.0	32
14	1205	23.0	40
21	1105	25.0	33
28	1245	24.0	28
MAY		- 1.0	2.0
05	1205	22.0	28
15	1130	22.0	26
27	1320	24.0	30
JUN			
05	1125	22.0	22
16	1315	31.0	36
24	1150	28.0	40
JUL			
07	1030	28.0	26
21	1055	31.0	30
29	1400	28.0	28
AUG			
04	1400	30.0	25
09	1130	29.0	37
18	1200	32.0	30
25 SEP	1000	29.5	35
	1105	29.0	4.0
01 15	1105	27.5	40
22	1045	26.0	38 41
29	1125	26.5	38
	1103	20.5	30

MISSISSIPPI RIVER DELTA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

294022091265500 WAX LAKE (WEST) DRAINAGE AREA AT CONTROL STRUCTURE, NEAR PATTERSON, LA (CE 76520)

			CHLO-
			RIDE,
			DIS-
		TEMPER-	SOLVED
	TIME	ATURE	(MG/L
DATE		(DEG C)	AS CL)
OCT			
07	1000	25.0	45
14	0950	20.0	45
21	1315	19.0	45
NOV			
04	1015	18.0	40
12	0950	19.0	45
18	1005	18.5	40
DEC			
02	1100	12.5	40
09	1030	12.0	45
JAN			
13	1040		44
20	1010		39
FER	200	3.0	
03	1000	11.0	42
11	0930	10.0	40
MAR	44.00		2.5
03	0900	13.5	30
10	0810	13.0	29
APR			
07	1045	13.0	36
14	1130	26.0	40
21	1115	23.0	30
28	1205		30
MAY 05	1125	2.3	20
	1135	22.0	28 28
27	1035	23.0	30
JUN	1300	23.0	30
02	1100	22.0	20
16	1230	29.5	34
24	1125	28.0	39
JUL			
07	1005	28.0	30
21	1020	31.0	26
29	1200	28.0	29
AUG			
04	1020	30.0	26
18	1130	33.0	29
25	1020	29.5	34
SEP			
01	1030	29.5	40
08	1100	29.0	38
15	1330	27.0	40
22	1015	26.0	40
29	1100	26.0	41

07387000 VERMILION RIVER AT BANCKER FERRY NEAR ABBEVILLE, LA

		TOTAL IN BOT-	BARIUM.	RECOV. FM BOT-	RECOV. FM ROT-	CHRO- MIUM, RECOV.		RECOV. FM BOT-	RECOV. FM HOT-	MANGA- NESE, RECOV.	MERCURY MECOV.	ZINC, RECOV. FM BOT-
		TOM MA-	DIS-	TOM MA-	TOM MA-	TOM MA-	TOM MA-	TOM MA-	TOM MA-	TOM MA-	TOM MA-	TOM MA-
	TIME	(UG/G	(UG/L	(UG/G	(UG/G	TERTAL	(UG/G	(UG/G	(UG/G	TERIAL	(UG/G	(UG/G
DATE		AS AS)	AS BA)	AS BA)	AS CD)	(UG/G)	AS CU)	AS FE)	AS PB)	(UG/G)	AS HG)	AS ZN)
NOV 18	1345	3	100	100	0	-	0	4800	1.0	180	0.5	22

LOWER MISSISSIPPI RIVER DELTA

291620089210200 MISSISSIPPI RIVER AT THE JUMP, AT VENICE, LA (CE 01500)

			CHLO-
			RIDE.
		0230.000.000	DIS-
	2000	TEMPER-	SOLVED
0.75	TIME	ATURE	(MG/L
DATE		(DEG C)	AS CL)
OCT			
02	1445	27.5	310
03	1320	26.5	290
06	1445	26.0	220
07	1410	25.0	210
24	1315	23.0	400
27	1430	22.0	400
NOV			
05	1430	20.0	850
12	1430	18.5	760
17	1430	18.5	880
20	1415	17.0	660
21	1345	17.0	720
25	1430	17.0	660
DEC			
02	1445	14.0	440
05	1430	13.5	310
11	1230	12.5	260
17	0730	12.5	200
23	0815	13.0	190
24	0700	12.5	60
JAN			
06	0700	9.0	50
07	0700	9.5	540
08	0830	9.5	740
09	0830	9.5	620
15	1430	9.5	730
20	0700	9.0	960
21	0700	9.0	1100
26	1430	9.5	1400
30	0700	10.0	1600
MAR			
03	1510	20.0	1800
APR			
03	1500	11.0	170
MAY			
01	0700	20.0	160
05	0800	20.5	48
18	1600	22.5	42
19	0745	22.0	41
20	1400	22.0	45
22	1500	21.5	49
JUN			
05	1400	21.0	32
08	0700	22.5	28

MISSISSIPPI RIVER DELTA

07381468 BAYOU BOEUF AT U.S. HIGHWAY 190, AT AMELIA, LA (CE 52800)
WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

RID DIS TEMPER - SOL ATURE (MG (DEG C) AS (MG (DEG	VED /L CL)
DATE DATE TIME ATURE ATURE (MG (DEG C) AS OCT 08 0800 20.5 4 20 0800 21.0 4 NOV 03 0800 18.0 4 17 0750 18.0 4 24 0755 14.0 4 DEC 01 0805 13.0 33 15 0750 13.0 4 22 0800 10.0 33 JAN 12 0800 44 19 0750 44 26 0750 8.5 FEB 02 0840 APR 06 0740 20.0 49 13 0740 24.0 49 20 0800 APR 06 0740 20.0 49 13 0740 24.0 49 27 0800 22.0 MAY 04 0810 23.0 34 41 11 0745 22.0 33	VED /L CL)
DATE DATE TIME OCT 08 0800 20.5 4 20 0800 47 0800 0800 21.0 4 71 0750 18.0 4 17 0755 14.0 4 DEC 01 0805 13.0 31 15 0750 13.0 4 22 0800 10.0 31 JAN 12 0800 41 19 0750 8.5 FEB 02 0840 APR 06 0740 20.0 440 21.0 461 22.0 0800 22.0 0840 APR 06 0740 20.0 441 20 0800 22.0 0840 APR 06 0740 20 442 20 0750 25 45 27 0800 22 0800 22 31 44 20 45 46 47 47 48 48 49 40 40 40 40 40 40 40 40 40	/L CL) 5
DATE (DEG C) AS OCT 08 0800 20.5 4 20 0800 4 27 0800 21.0 4 NOV 03 0800 18.0 4 17 0750 18.0 4 24 0755 14.0 4 DEC 01 0805 13.0 30 15 0750 13.0 4 22 0800 10.0 30 JAN 12 0800 4 19 0750 4 19 0750 8.5 45 FEB 02 0840 12.0 56 APR 06 0740 20.0 46 13 0740 24.0 44 20 0750 25.0 45 27 0800 22.0 35 MAY 04 0810 23.0 36 MAY 04 0810 23.0 36 11 0745 22.0 36 11 0745 22.0 36	5 5 5
08 0800 20.5 4 20 0800 4 27 0800 21.0 4 NOV 03 0800 18.0 4 17 0750 18.0 4 24 0755 14.0 4 DEC 01 0805 13.0 3 15 0750 13.0 3 15 0750 13.0 3 17 0800 4 17 0800 4 17 0800 4 17 0800 10.0 3 JAN 12 0800 4 19 0750 8.5 4 19 0750 8.5 4 19 0750 8.5 4 19 0750 8.5 4 19 0750 8.5 4 19 0750 8.5 4 19 0750 8.5 4 19 0800 20.0 4 13 0740 20.0 4 13 0740 24.0 4 20 0750 25.0 4 27 0800 22.0 35 MAY 04 0810 23.0 36 MAY 04 0810 23.0 36 11 0745 22.0 36 18 0805 24.0 36	5
20 0800 4 27 0800 21.0 4 NOV 03 0800 18.0 4 17 0750 18.0 4 24 0755 14.0 4 DEC 01 0805 13.0 3 15 0750 13.0 4 22 0800 10.0 3 JAN 12 0800 4 19 0750 4 19 0750 8.5 FEB 02 0840 12.0 5 FEB 02 0840 12.0 5 APR 06 0740 20.0 46 13 0740 24.0 4 20 0750 25.0 45 27 0800 22.0 35 MAY 04 0810 23.0 36 MAY 04 0810 23.0 36 11 0745 22.0 36	5
27 0800 21.0 4 NOV 03 0800 18.0 4 17 0750 18.0 4 24 0755 14.0 4 DEC 01 0805 13.0 3 15 0750 13.0 4 22 0800 10.0 3 JAN 12 0800 4 19 0750 8.5 4 FEB 02 0840 12.0 5 APR 06 0740 20.0 44 13 0740 24.0 40 20 0750 25.0 45 27 0800 22.0 35 MAY 04 0810 23.0 34 11 0745 22.0 34 18 0805 24.0 36	5
NOV 03 0800 18.0 4 17 0750 18.0 4 24 0755 14.0 4 DEC 01 0805 13.0 3 15 0750 13.0 4 22 0800 10.0 3 JAN 12 0800 4 19 0750 8.5 44 FEB 02 0840 12.0 56 APR 06 0740 20.0 46 13 0740 24.0 44 20 0750 25.0 45 27 0800 22.0 36 MAY 04 0810 23.0 34 11 0745 22.0 34 18 0805 24.0 36	5
03 0800 18.0 4 17 0750 18.0 4 17 0755 14.0 4 24 0755 14.0 4 DEC 01 0805 13.0 3 15 0750 13.0 4 22 0800 10.0 3 JAN 12 0800 4 19 0750 4 19 0750 8.5 4 FEB 02 0840 12.0 5 FEB 02 0840 12.0 5 APR 06 0740 20.0 46 13 0740 24.0 4 20 0750 25.0 43 27 0800 22.0 35 MAY 04 0810 23.0 36 MAY 04 0810 23.0 36 11 0745 22.0 36 18 0805 24.0 36	
17 0750 18.0 4 24 0755 14.0 4 DEC 01 0805 13.0 3 15 0750 13.0 4 22 0800 10.0 3 JAN 12 0800 4 19 0750 8.5 4 FEB 02 0840 12.0 5 APR 06 0740 20.0 44 13 0740 24.0 40 20 0750 25.0 45 27 0800 22.0 35 MAY 04 0810 23.0 34 11 0745 22.0 34 18 0805 24.0 36	
24 0755 14.0 4 DEC 01 0805 13.0 3 15 0750 13.0 4 22 0800 10.0 3 JAN 12 0800 4 19 0750 4 26 0750 8.5 4 FEB 02 0840 12.0 5 APR 06 0740 20.0 44 13 0740 24.0 40 20 0750 25.0 45 27 0800 22.0 35 MAY 04 0810 23.0 34 11 0745 22.0 34 18 0805 24.0 36	n
DEC 01 0805 13.0 3 15 0750 13.0 4 22 0800 10.0 3 JAN 12 0800 4 19 0750 8.5 4 FEB 02 0840 12.0 5 APR 06 0740 20.0 46 13 0740 24.0 44 20 0750 25.0 45 27 0800 22.0 36 MAY 04 0810 23.0 36 11 0745 22.0 34 11 0745 22.0 34	
01 0805 13.0 3 15 0750 13.0 4 22 0800 10.0 3 JAN 12 0800 4 19 0750 4 26 0750 8.5 4 FEB 02 0840 12.0 5 APR 06 0740 20.0 4 13 0740 24.0 4 20 0750 25.0 4 27 0800 22.0 3 MAY 04 0810 23.0 34 11 0745 22.0 34 18 0805 24.0 36	5
15 0750 13.0 4 22 0800 10.0 3: JAN 12 0800 4: 19 0750 4: 26 0750 8.5 4: FEB 02 0840 12.0 5: APR 06 0740 20.0 4: 13 0740 24.0 4: 20 0750 25.0 4: 27 0800 22.0 3: MAY 04 0810 23.0 3: 11 0745 22.0 3: 18 0805 24.0 3:	
22 0800 10.0 39 JAN 12 0800 44 19 0750 44 26 0750 8.5 49 FEB 02 0840 12.0 56 APR 06 0740 20.0 46 13 0740 24.0 44 27 0800 22.0 39 MAY 04 0810 23.0 34 11 0745 22.0 34 18 0805 24.0 36	
JAN 12 0800 41 19 0750 41 26 0750 8.5 45 FEB 02 0840 12.0 56 APR 06 0740 20.0 46 13 0740 24.0 44 20 0750 25.0 45 27 0800 22.0 36 MAY 04 0810 23.0 36 11 0745 22.0 34 18 0805 24.0 36	
12 0800 4. 19 0750 4. 26 0750 8.5 49 FEB 02 0840 12.0 50 APR 06 0740 20.0 44. 13 0740 24.0 40 20 0750 25.0 45 27 0800 22.0 39 MAY 04 0810 23.0 34 11 0745 22.0 34 18 0805 24.0 30	>
19 0750 4.1 26 0750 B.5 45 FEB 02 0840 12.0 56 APR 06 0740 20.0 44 13 0740 24.0 40 20 0750 25.0 45 27 0800 22.0 35 MAY 04 0810 23.0 34 11 0745 22.0 34 18 0805 24.0 36	,
26 0750 8.5 44 FEB 02 0840 12.0 50 APR 06 0740 20.0 40 13 0740 24.0 44 27 0800 22.0 36 MAY 04 0810 23.0 34 11 0745 22.0 34 18 0805 24.0 30	
FEB 02 0840 12.0 50 APR 06 0740 20.0 40 13 0740 24.0 40 20 0750 25.0 45 27 0800 22.0 35 MAY 04 0810 23.0 34 11 0745 22.0 36 18 0805 24.0 36	
02 0840 12.0 50 APR 06 0740 20.0 44 13 0740 24.0 40 20 0750 25.0 44 27 0800 22.0 39 MAY 04 0810 23.0 34 11 0745 22.0 36 18 0805 24.0 36	,
APR 06 0740 20.0 44 13 0740 24.0 44 20 0750 25.0 45 27 0800 22.0 35 MAY 04 0810 23.0 34 11 0745 22.0 34 18 0805 24.0 36	1
06 0740 20.0 40 13 0740 24.0 44 20 0750 25.0 45 27 0800 22.0 36 MAY 04 0810 23.0 34 11 0745 22.0 34 18 0805 24.0 30	,
13 0740 24.0 44 20 0750 25.0 45 27 0800 22.0 35 MAY 04 0810 23.0 34 11 0745 22.0 34 18 0805 24.0 36	,
20 0750 25.0 49 27 0800 22.0 39 MAY 04 0810 23.0 34 11 0745 22.0 39 18 0805 24.0 30	
27 0800 22.0 39 MAY 04 0810 23.0 34 11 0745 22.0 33 18 0805 24.0 30	
MAY 04 0810 23.0 34 11 0745 22.0 34 18 0805 24.0 3	
11 0745 22.0 34 18 0805 24.0 30	
18 0805 24.0 30	
18 0805 24.0 30	
26 0805 25.0 36	,
JUN	
01 0840 27.0 36	
08 0700 28.5 56	
15 0700 29.5 38	
22 0745 31.0 35 29 0750 29.5 35	
29 0750 29.5 35 JUL	,
05 0755 28.5 34	
13 0805 30.0 36	
20 0800 31.5 34	
27 0830 29.0 27	
AUG	
03 0805 30.0 34	
10 0805 30.0 30	
17 0745 31.5 27	
24 0800 29.0 38	
31 0750 27.5 35	
SEP	
14 0750 28.5 34	
21 0805 24.5 37	
28 0805 26.5 38	

POTAMOLOGICAL STUDY

The following water-quality sites are being sampled as part of a potamological study on a distributary of the lower Mississippi River in cooperation with the Louisiana Department of Transportation and Development, Office of Public Works.

292141089174800 BAPTISTE COLLETTE (MAIN PASS) AT BRETON SOUND 6.9 MILES NORTHEAST OF VENICE, LA
WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIMF	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BIO- ITY (NTU)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM. TOTAL. IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./
JAN 16	0915	15400	7.4	7.5	0	15	12.2	78	1.8	160	- 4
06	1400	1500	7.3	21.0	5	60	7.0	27	3.2	1400	860
14	0930	346	6.9	28.0	10	170	6.0	54	.5	1400	
DATE	STREP- TOCOCCI FECAL+ KF AGAR (COLS- PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE+ DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
JAN 16	кв	1800	1700	140	360	3000	90	112	870	5200	•6
06 JUL	640	260	160	50	32	190	8.4	98	110	340	• 2
14	K500	140	47	37	11	17	3.2	91	52	21	.3
DATE	STLICA. DIS- SOLVED (MG/L AS SIO2)	SOLIDS. RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS. SUM OF CONSTI- TUENTS. DIS- SOLVED (MG/L)	SOLIDS. RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	SOLIDS, VOLA- TILE IN BOTTOM MA- TERIAL (MG/KG)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NOZ+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN; AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
JAN 16	4.0	194	9730	53	81600	.87	.01	.88	.93	•19	•23
06	5.6	A36	795	164	99000	5.2	.01	2.2	2.1	.06	•09
14	7.0	215	204	217		1.9	.06	2.0	2.1	.16	.17
	GE MO OR T	N.AM- GEN NIA + MON GANIC ORC OTAL DI MG/L	SANIC PH	HOS- PHO ORUS, D OTAL SO MG/L (M	LVED TO	ENIC I	SENIC TO DIS- RE DLVED ER UG/L (U	TAL L COV- D PABLE S	IUM, TO IS- RE OLVED ER UG/L (U	RABLE SO	MIUM DIS- DLVED DG/L G CD)
	16	.91	• 95	22	.11	1	0	10	0	1	0
	1AY 06	1.3	•91	, 35	.28	2	1	10	1	0	2
	14	2.1	1.1	.41	.10	4	1	0	0	0	2

K Results based on colony count outside the acceptable range (non-ideal count).

POTAMOLOGICAL STUDY--Continued

292141089174800 BAPTISTE COLLETTE (MAIN PASS) AT BRETON SOUND 6.9 MILES NORTHEAST OF VENICE, LA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	DATE	CHRO MIUM TOTA RECO ERAB (UG/ AS C	, L V- V LE L	CHRO- MIUM, HEXA- ALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER. DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL. TOTAL RECOV- ERABLE (UG/L AS NI)
	JAN 16		30	0	6	4	50	10	0	.3	.1	7
N	1AY		10	0	9	3	10	23	0	3.2	.4	5
	14		20	0	17	6	30	8	2	.3	•1	12
	NATE	NICKE DIS- SOLVI (UG/I AS N	ED L	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON. ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS	OIL AND GREASE. TOTAL RECOV. GRAVI- METRIC (MG/L)
	16		1	0	0		20	20	5.6	.00	2	1
	06		2	0	0		30	30	7.4	.00	0	0
	UL 14		1	0	0	3.0	60	20	12	.00	0	0
DATE JAN	PCR TOT (UG/	• TO	PCB. TOTAL N BOTOM MA- TERIAL JG/KG	CHLO L TOTA	PCI S, TOT. IN BI R. TOM I	AL OT- MA- ALDRI MAL TOTA	AL TER	AL OT- CHL MA- DAN IAL TOT	DAN TOT OR- IN B IE, TOM TAL TER	AL OT- MA- DD IAL TOT	TOT IN B	MA- DDE,
16	<	. 1	2	0 <.	1 <	1 <.(001	<.1 <	.1	6.0 <.	001	6.6 <.001
DATE	TOT IN B TOM TER (UG/	AL OT- MA- IAL 1	DDT,	DDT TOTA IN BO TOM M TERI (UG/K	L T- DI- A- AZINO AL TOTA	ON, TOM M	DN, AL DT- DI: MA- ELDI TAL TOT	RIN TOM AL TER	IN. AL OT- END MA- SULF IAL TOT	AN, TOM AL TER	AN, AL OT- MA- ENDR IAL TOT	AL TERIAL
JAN 16		1.7	<.00	1 8	. 8	.02	··1 <.	001	1.0 <.	001	<.1 <.	001 <.1
	DATE	FTHION TOTAL (UG/L	I. TO	THION, TOTAL N BOT- DM MA- TERIAL JG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN ROT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
	16	<.0) 1	<.1	<.001	<.1	<.001	<.1	<,001	<.1	<.01	<.1

< Actual value is known to be less than the value shown.

POTAMOLOGICAL STUDY -- Continued

292141089174800 BAPTISTE COLLETTE (MAIN PASS) AT BRETON SOUND 6.9 MILES NORTHEAST OF VENICE, LA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	METH- OXY- CHLOR • TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION. TOTAL (UG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX. TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JAN 16	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1
DATE	PER- THANE TOTAL (UG/L)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-0, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2.4.5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
16	<.01	<.10	<.1	<1	<.01	<.1	.02	.00	.01	•00

			SPE- CIFIC				
		SAMP-	CON-			OXYGEN,	
		LING	DUCT-	PH	TEMPER-	DIS-	PHENOLS
	TIME	DEPTH	ANCE		ATURE	SOLVED	FUENOL 3
DATE		(FT)	(UMHOS)	(UNITS)	(DEG C)	(MG/L)	(UG/L)
JAN							
16	0916	13	30000	7.4	8.0	12.3	
FEB			11.00		0.0		
26	1040	.5	22600	7.7	11.0	10.9	2
26	1041	8.0	45800	7.5	14.5	8.7	
MAY							
06	1401	14	26700	7.3	24.0	6.1	
JUL							
14	0931	14	346	6.9	28.0	5.7	
					SED.		
					SUSP.		
				SEDI-	SIFVE		
				MENT.	DIAM.		
				SUS-	% FINER		
			TIME	PENDED	THAN		
		DATE		(MG/L)	.062 MM		
		NOV					
		07	1200	2500	100		
		JUL					
		14	0930	230	98		
		AUG					
		18	1200	73	84		

< Actual value is known to be less than the value shown.

POTAMOLOGICAL STUDY--Continued

291900089184500 KIMBEL PASS (NEAR MAIN PASS) 3.9 MILES NORTHEAST OF VENICE, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND. BIO- CHEM- ICAL. 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./
JAN 16	1045	9250	7.7	8.0	5	10	12.7	56	4.1	K300	K24
06	1450	439	7.2	21.0	5	70	6.8	32	1.0	1900	
14	1100	363	7.1	29.0	5	170	5.1	55	·	1600	
DATE	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM. DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE: DIS- SOLVED (MG/L AS F)
JAN 16	K16	980	870	97	180	1600	52	116	420	2900	.5
MAY 06	840	160	64	42	13	22	3.2	94	68	26	.2
14	K750	140	46	38	11	19	3.2	94	51	22	.3
DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS. RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUFNTS, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS. VOLA- TILE IN BOTTOM MA- TERIAL (MG/KG)	NITRO- GEN• NITRATE TOTAL (MG/L AS N)	GEN.	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)	N02+N03	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
JAN 16	2.3	5460	5320	19	25200	•98	.02	1.0	.91	.34	•32
06	5.9	248	236	168	118000	2.0	.01	2.0	2.0	.06	•12
14	7.0	215	208	205		1.9	.06	2.0	2.0	•19	•14
0	GEN MON ORG TO	JAM- GEN JIA + MON GANIC ORG TAL DI	S. TO	HOS- PHO DRUS, D DTAL SO	LVED TO	ENIC I	SENIC TO DIS- RE OLVED ER UG/L (U	TAL L COV- D ABLE S	IUM, TO IS- RE OLVED ER UG/L (U	RABLE SO	MIUM IS- LVED G/L CD)
	6	1.1	• 95	.13	.09	1	1	0	0	0	0
M A 0 JU	6	2.0	1.4	.51	.03	2	1	0	<1	0	2

1.4

14 ...

1.1

2

.10

< Actual value is known to be less than the value shown. K Results based on colony count outside the acceptable range (non-ideal count).

POTAMOLOGICAL STUDY -- Continued

291900089184500 KIMBEL PASS (NEAR MAIN PASS) 3.9 MILES NORTHEAST OF VENICE, LA--Continued

ń	ATE	REC ERA	RO- JM, TAL COV- ARLE S/L CR)	CHRO MIUM HEXA VALEN DIS (UG/AS C	, c	OPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPE DIS- SOLV (UG/ AS C	ED S	RON, DIS- SOLVED (UG/L (S FE)	LEAD TOTA RECO ERAB (UG/ AS P	L V- LE L	LEAD. DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCU DIS SOLV (UG/	IRY S- /ED 'L	NICKEL TOTAL RECOV ERABL (UG/L AS NI	- Ε
JA	N 6		30		0	13		3	50		9	0	•1		. 1		7
МД			10		0	12		3	30		9	0	.5		.0	1	
JU			10		0	16		21	20		7	1	• 1		.1	1	1
D	ATE	(U)		SELE NIUM TOTA (UG/AS S	L L	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA DIUM DIS SOLV (UG/ AS V	• 1 • F ED E	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC DIS SOLV (UG/ AS Z	- (ED L	CARBON. DRGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENO)LS	OIL AN GREASE TOTAL RECOV GRAVI METRI (MG/L	• • •
JA	N 6		2		0	0			30		10	7.5	.00)	3		2
МΔ			0		0	0		. 0	70		10	9.2	.01	1	0		0
اال			5		0	0		.0	60		10	7.6	.00)	0		0
DATE	PCR TOT (UG/	AL	PCF TOTAL IN BO TOM I TER (UG/I	AL OT - MA- IAL	NAPH- THA- LENES POLY- CHLOF TOTAL (UG/L)	TOM	30T- MA- A	LDRIN TOTAL (UG/L	TER	AL OT- MA- IAL	CHLOI DANE TOTAI UG/L	DAI TO R- IN I TOM L TE	RIAL TO	DDD.	DDC TOTA IN BC TOM M TERI (UG/K	IL IT- IA-	DDE, OTAL UG/L)
16	<	• 1		2	<.1		<1	<.00	1	<.1	<.	1	1	<.001	1	. • 0	<.001
DATE	IN E	MA-	DD TOT (UG	T. AL	DDT OF TOTAL	I- D	I- I NON, T	DI- ZINON TOTAL N BOT OM MA TERIA UG/KG	- DI - ELD L TOT	- I RIN T	DI- LDRI TOTA N BO OM M TERI UG/K	N, L T- EN A- SUL AL TO	SUI TOO- IN FAN, TOO TAL T	NDO- LFAN, OTAL BOT- M MA- ERIAL G/KG)	ENDRI TOTA (UG/	IN, TO	DRIN. OTAL 1 BOT- 1 MA- ERIAL 1 G/KG)
JAN 16		<.1	<.	001	<.	. 1	.02	٧.	1 <.	.001		.1 <	.001	<.1	<.	001	<.1
,	NATE	TO	ION, TAL G/L)	ETHI TOT IN B TOM TER (UG/	AL DT- MA- IAL	HEPTA- CHLOR, TOTAL (UG/L)	HEPT CHLO TOTA IN BO TOM M TERI (UG/K	R. L IT- IA- E	HEPTA- CHLOR POXIDE TOTAL (UG/L)	HEPT CHLO EPOXI TOT. ROTT MAT (UG/K	R DE IN OM	LINDANE TOTAL (UG/L)	LINDAN TOTAL IN BOT TOM MA TERIA (UG/KG	- MAL - THI L TOT	ON,	MALA- THION TOTAL IN BOT TOM MA TERIA	- - 1-
J#	N 16		<.01		<.1	<.001		.1	<.001		.1	<.001	٠.	1 <	.01	<.	. 1

< Actual value is known to be less than the value shown.

POTAMOLOGICAL STUDY--Continued

291900089184500 KIMBEL PASS (NEAR MAIN PASS) 3.9 MILES NORTHEAST OF VENICE, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

				,			42 446 440			
		METH-		METHYL		METHYL				PARA-
		OXY-		PARA-		TRI-		MIREX.		THION.
	METH-	CHLOR.	METHYL	THION,	METHYL	THION,		TOTAL		TOTAL
	OXY-	TOT. IN	PARA-	TOT. IN	TRI-	TOT. IN		IN BOT-	PARA-	IN BOT-
	CHLOR,	BOTTOM	THION,	BOTTOM	THION.	BOTTOM	MIREX,	TOM MA-	THION.	TOM MA-
	TOTAL	MATL.	TOTAL	MATL.	TOTAL	MATL.	TOTAL	TERIAL	TOTAL	TERIAL
DATE	(UG/L)	(UG/KG)	(UG/L)	(UG/KG)	(UG/L)	(UG/KG)	(UG/L)	(UG/KG)	(UG/L)	(UG/KG)
JAN										
16	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1
		•								3.1
				TOXA-		TRI-				
		PER-		PHENE .		THION.				
		THANE		TOTAL		TOTAL				
	PER-	IN	TOX-	IN BOT-	TOTAL	IN BOT-				
	THANE	BOTTOM	APHENE .	TOM MA-	TRI-	TOM MA-	2,4-D,	2. 4-DP	2,4,5-T	SILVEX.
	TOTAL	MATERIL	TOTAL	TERIAL	THION	TERTAL	TOTAL	TOTAL	TOTAL	TOTAL
DATE	(UG/L)	(UG/KG)	(UG/L)	(UG/KG)	(UG/L)	(UG/KG)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
JAN									-	
16	<.01	<.10	<.1	<1	<.01	<,1	.03	.00	.01	.00
					SPE- CIFIC					
				SAMP-	CON-			OXYGEN,		
				LING	DUCT-	PH	TEMPER-	DIS-	PHENOLS	
			TIME	DEPTH	ANCE		ATURE	SOLVED		
		DATE	- 17	(FT)	(UMHOS)	(UNITS)	(DEG C)	(MG/L)	(UG/L)	
		JAN 16	1046	12	94000	7.7	8.0	12.5		
		FEB	1100	-	704					
		26	1100	.5	794	7.7	6.5	11.1	1	
		26	1101	10	791	7.6	6.5	11.0		
		06	1451	13	440	7.2	21.0	6.8		
		14	1101	9.0	336	7.1	30.5	4.7		
		14	1102	12	342	7.2	30.0	4.8		
						SE SU	n. SP.			
					SED MEN	I- SIE	VE AM.			
					SUS					
			DA	TE TI		DED TH	MM			
			DEC							
			18	12	00	192 9	6			
				09	30	304 9	7			
			AUG 18	12	0.0	162 9	3			
					700		7			

< Actual value is known to be less than the value shown.

POTAMOLOGICAL STUDY--Continued

291809089184900 EMALINE PASS (NEAR MAIN PASS) 3.2 MILES NORTHEAST OF VENICE, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND. BIO- CHEM- ICAL. 5 DAY (MG/L)	COLI- FORM, TOTAL IMMED (COLS, PER 100 ML	0.7 UM-MF (COLS./
JAN 16	1100	6330	7.4	7.5	5	9.0	11.5	33	2.2	76	K52
MAY 06	1510	438	7.2	21.0	5	120	6.7	44	2.3	120	1000
JUL 14	1130	353	7.1	28.5	5	180	5.2	54	2	170)
DATE	STRFP= TOCOCCI FFCAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	DIS- SOLVED (MG/L	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	DIS- SOLVE (MG/L	(MG/L
		CHOCSI	· CHOOS!								
JAN 16 MAY	K4	760	630	79	140	1000	44	120	310	1900	•5
06	960	160	66	41	14	26	3,3	94	67	34	.2
14	1300	140	50	37	11	16	3.2	88	3 51	21	.3
DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SUM OF CONSTI- TUENTS, DIS-	RESIDUE AT 105 DEG. C. SUS-	SOLIDS, VOLA- TILE IN ROTTOM MA- TERIAL (MG/KG)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	GEN.	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)	N02+N03	NITRO GEN• AMMONI	AMMONIA
JAN 16	33	3610	3580	12	52600	1.4	.02	1.4	1.2	.34	•32
MAY 06	5.5	267	247	282	50000	2.0	.01	2.0	2.0		•14
JUL 14	7.0	214	200	211		1.9	.06	2.0	2.0	•17	•14
	GE MO OR T	N·AM- GE NIA + MO GANIC OR OTAL D MG/L (GANIC PH IS. T MG/L (HOS- PHO ORUS, I OTAL SO MG/L (F	OLVED TO	SENIC STAL S JG/L (RSENIC TO DIS- RI SOLVED ER	OTAL LECOV- CRABLE SUG/L	IUM. T DIS- R SOLVED E	RABLE UG/L	ADMIUM DIS- 60LVED (UG/L AS CD)
	AN 16	1.3	1.3	.15	.04	1	1	0	0	0	0
M	AY	2.0	1.1	.47	.18	3	1	0	0	0	0
J	JL 14	1.2	1.0	.41	.10	4	2	0	0	0	0
							-			4	*

K Results based on colony count outside the acceptable range (non-ideal count).

POTAMOLOGICAL STUDY--Continued

291809089184900 EMALINE PASS (NEAR MAIN PASS) 3.2 MILES NORTHEAST OF VENICE, LA--Continued

DATE	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRU- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER+ TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON. DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
NAL		0	7	3	50	7	0	• 0	.0	7
16 MAY	20	0					1	.8	.3	12
06	10	0	14	3	40	19				
14	10	0	16	5	50	7	0	•1	•2	10
DATE	NICKEL. DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC+ TOTAL RECOV- FRABLE (UG/L AS ZN)	ZINC+ DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE. TOTAL RECOV. GRAVI- METRIC (MG/L)
JAN 16	3	0	0			20	6.2	.00	1	1
MAY 06	0	0	0	2.2	60	10	13	.00	0	0
JUL	1	0	0	3.0	60	20	8.8	.00	0	0
14										
DATE	PCR. TOTAL (UG/L)	NAPH- THA- LENES. POLY- CHLUR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD. TOTAL (UG/L)	DDE + TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON. TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN. TOTAL (UG/L)
JAN 16	<.1	<.1	<.001	<.1	<.001	<.001	<.001	.01	.002	<.001
DA	ENDR TOT ATE (UC	TAL TO	TAL TO	PTA- CHLO LOR, EPOX TAL TOTA S/L) (UG	OR IDE LIND AL TOT	AL TOT	TAL TOT	OR, THI	RA- THI	HYL RI- ON.
16		.001	<.01 <	.001 <.	001 <.	001	<.01 <	.01	<.01 <	.01
n,	T	REX. TH	TAL TO	ER- TO ANE APHE TAL TOT S/L) (UG	NE TR	I - 2.4	4-D+ 2+ 4 TAL TOT G/L) (UG/	AL TO		
JAN 16		<.01	<.01	<.01	<.1 <	.01	.02	.00	.00	•00

< Actual value is known to be less than the value shown.

POTAMOLOGICAL STUDY--Continued

291809089184900 EMALINE PASS (NEAR MAIN PASS) 3.2 MILES NORTHEAST OF VENICE, LA

TIMF	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	PHENOLS
1101	18	8700	7.2	8.0	11.4	
1110	.5	832	7.7	6.5	11.3	1
1111	33	837	7.6	6.5	11.3	
1511	26	439	7.2	21.0	6.7	
1131	37	339	7.3	29.5	4.4	
	1101 1110 1111 1511	TIME LING DEPTH (FT) 1101 18 1110 .5 1111 33 1511 26	TIME DEPTH ANCE (FT) (UMHOS) 1101 18 8700 1110 .5 932 1111 33 837 1511 26 439	TIME DEPTH ANCE (UMHOS) (UNITS) 1101 18 8700 7.2 1110 .5 832 7.7 1111 33 837 7.6 1511 26 439 7.2	TIME DEPTH ANCE (FT) (UMHOS) (UNITS) (DEG C) 1101 18 8700 7.2 8.0 1110 .5 832 7.7 6.5 1111 33 837 7.6 6.5 1511 26 439 7.2 21.0	TIME DEPTH ANCE (FT) (UMHOS) (UNITS) (DEG C) (MG/L) 1101 18 8700 7.2 8.0 11.4 1110 .5 832 7.7 6.5 11.3 1111 33 837 7.6 6.5 11.3 1511 26 439 7.2 21.0 6.7

		SEDI- MENT, SUS-	SED. SUSP. SIFVE DIAM. % FINER
DATE	TIME	(MG/L)	.062 MM
DEC 18	1200	272	98
14	1130	240	94
AUG 18	1200	158	98

POTAMOLOGICAL STUDY--Continued

291728089210000 BAPTISTE COLLETTE BAYOU 1.2 MILES NORTH OF VENICE, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- RID- ITY (NTU)	OXYGEN. DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./
JAN 16	1115	6060	7.5	7.5	5	10	11.3	33	2.1	K280	K64
06	1600	440	7.2	21.0	10	150	6.6	62	2.0	1100	
14	1245	362	7.3	29.0	10	180	5.2	57	.6	1800	
DATE	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE: DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
JAN	46	2.0			100	000	-	***	210	1000	-
16		740	620	81	130	990	34	118		1900	•5
06 JUL	1100	150	57	39	13	55	2.9	94	68	28	• 2
14	1300	140	44	37	11	18	3.2	94	51	21	•2
DATE	STLICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS. RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- FUFNTS, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	SOLIDS, VOLA- TILF IN BOTTOM MA- TERIAL (MG/KG)	NITRO- GEN. NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN+ NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN: AMMONIA DIS- SOLVED (MG/L AS N)
JAN 16	4.0	3520	3420	16	57900	1.3	.02	1.3	1.2	.32	•27
MAY 06		253	234	398	38500	2.0	.01	2.0	2.1	•07	.09
JUL 14	7.0	218	204	422		1.9	.06	2.0	2.0	•20	•21
	GE MOI ORI T	NO AM- GEN NIA + MON GANIC ORG OTAL DI MG/L (N	SANIC PHO	HOS- PHO DRUS, D DTAL SO MG/L (M	LVED TO	TAL SO	DENIC TO DIS- RE DLVED ER	COV- DO SABLE SO	IUM, TO IS- RE OLVED ER UG/L (U	ABLE SO	MIUM IS- ULVED IG/L ICOD)
J	ΔN										
	16 AY	1.5	1.0	.15	.05	1	1	0	0	0	0
	06 UL	2.7	1.2	.66	.18	3	1	10	0	0	0
	14	1.3	1.1	. 45	.09	4	2	0	0	0	1

K Results based on colony count outside the acceptable range (non-ideal count).

POTAMOLOGICAL STUDY--Continued

291728089210000 BAPTISTE COLLETTE BAYOU 1.2 MILES NORTH OF VENICE, LA--Continued

n	DATE	CHRO- MIUM. TOTAL RECOV- ERARLE (UG/L AS CR)	CHRO- MIUM. HEXA- VALENT DIS. (UG/L AS CR	COF TO RE	PPER. COV- RABLE	COPPER. DIS- SOLVED (UG/L AS CU)	IRON. DIS- SOLVE (UG/L AS FE	(UG/L	SOLVED (UG/L	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
J۸ 1	16	20		0	7	3	4	0 6	. 0	.0	.0	7
МΔ		20		0	18	4	3	0 16	2	3.8	.2	17
1	JL 14	20		0	21	6	3	0 10	1	.3	•1	14
0	DATE	NICKEL+ DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE	N:	ELE- IUM, DIS- DLVED JG/L S SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC. TOTAL RECOV FRABL (UG/L AS ZN	E SOLVED	(MG/L		PHENOLS	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
	16	2		0	0		-	- 30	4.3	.00	1	0
0	06	1		0	0		8	0 20	14	.07	1	0
1	14	1		0	0	3.0	6	0 20	8.7	.00	0	0
DATE	PCB TOT (UG/I	IN TOM	CR. TAL L BOT- P MA- C RIAL T	APH- THA- ENES, OLY- HLOR. OTAL	PCM TOTA IN BO TOM M TER!	AL DT- MA- ALD MAL TO	IN RIN, TO TAL T	M MA- DA	LOR- IN NE TOM	RIAL TO	TOT IN E	BOT- MA- DDE. RIAL TOTAL
16	<	• 1	<1	<.1	<	l <	.001	<.1	<.1	<1 <	.001	<.1 <.001
DATE	TOT IN B TOM TER (UG/	AL DT- MA- D TAL TO	DT, TO	DDT. OTAL I BOT- IM MA- ERIAL IG/KG)	DI- AZINO TOTA (UG.	AZI TO IN ON, TOM AL TE	MA- E RIAL T	ELC TO DI- IN LDRIN TOM OTAL TE	RIAL TO	DO- IN TOM TAL TE		ENDRIN, TOTAL IN BOT- RIN, TOM MA- TAL TERIAL G/L) (UG/KG)
JAN 16		• 4 <	.001	<.1		.03	<.1	<.001	•1 <	.001	<.1 <	.001 <.1
ſ	DATE	ETHION, TOTAL (UG/L)	ETHION TOTAL IN BOT TOM MA TERIA	- HI	EPTA- HLOR, OTAL JG/L)	HEPTA- CHLOR: TOTAL IN ROT- TOM MA- TERIAL (UG/KG)	HEPTA CHLOR EPOXID	TOT. IN E BOTTOM MATL.	LINDANE	TERIAL	MALA- THION. TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
J	ΔN					2.04					- 01	. 1
1	16	<.01	<.	. 1	<.001	<.1	< .00	1 <.1	<.001	<.1	<,01	<.1

< Actual value is known to be less than the value shown.

POTAMOLOGICAL STUDY--Continued

291728089210000 BAPTISTE COLLETTE BAYOU 1.2 MILES NORTH OF VENICE, LA

						M-210, MR 7 20	OF BEARING			
DATE	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR. TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION. TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JAN 15	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1
DATE	PER- THANE TOTAL (UG/L)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JAN 16	<.01	<.10	<.1	<1	<.01	<.1	.03	•00	.01	• 0 0
		DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	PHENOLS (UG/L)	
		JAN 16 FEB	1116	39	38200	7.3	9.0	10.6		
		26	1120	.5	556	7.7	6.0	11.5	3	
		26	1121	38	1000	7.6	6.0	11.0		
		06 JUL	1601	2.7	440	7.2	20.5	6.6		
		14	1246	30	341	7.6	29.0	5.4		

			SED. SUSP.
		SEDI-	SIEVE
		MENT,	DIAM.
		SUS-	% FINER
	TIME	PENDED	THAN
DATE		(MG/L)	.062 MM
NOV			
07	1530	332	100
DEC			
18	1200	192	98
MAY			
06	1530	432	100
JUL			
14	1200	288	98
AUG			
18	1200	176	98

< Actual value is known to be less than the value shown.

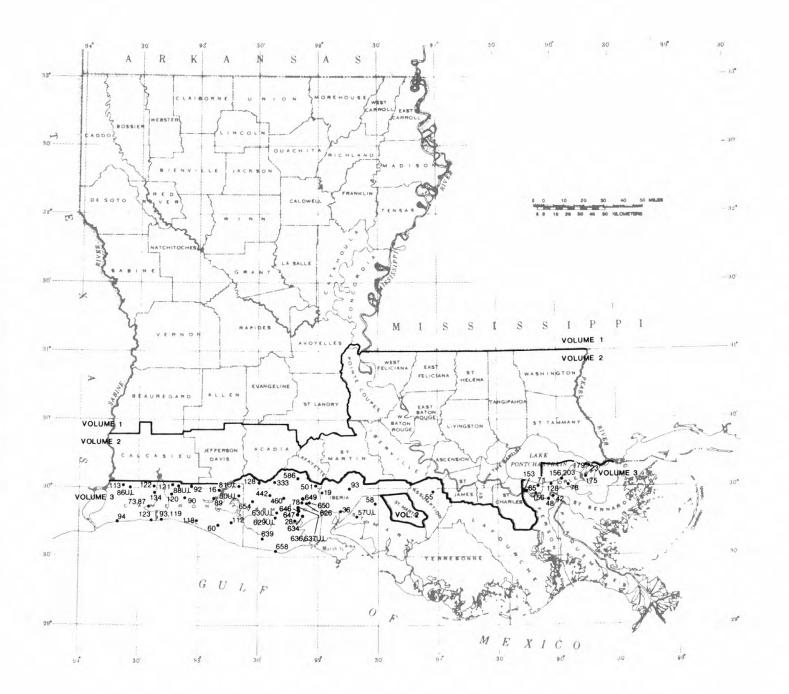


Figure 5.--Location of observation wells.

ASSUMPTION PARISH

295918091030101 LOCAL WELL NUMBER: AS-55

OWNER: MEDERIC LEBLANC. (SEC. 31, T. 12S., R. 14E.) DRILLED UNUSED ARTESIAN WELL IN MISSISSIPPI RIVER ALLUVIAL AGUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 168 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 2-IN CASING, AT LSD (SINCE 4/7/81).
LSD 16.00 FT NGVD.

LSD 16.00 FT NGVD.
HIGHEST WATER LEVEL 9.54 RELOW LSD, MAY 17, 1973,
LOWEST WATER LEVEL 18.16 RELOW LSD, NOV. 13, 1978.
RECORDS AVAILABLE 1960-64, 1966-CURRENT YEAR.

			WATER		WATER		WATER		WATER
655222	DAT	-	LFVEL	 DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
						아이는 중 중에 되면 기를 모려고 있다니다	16.80		

CAMERON PARISH

295935092473001 LOCAL WELL NUMBER: CN-16

OWNER: MAPLE HUGHES ESTATE. (SEC. 20. T. 125., R. 4W.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFFR OF PLEISTOCENE AGE, DIAM 12 TO 8 IN. REPORTED DEPTH 350 FT, SCREENED INTERVAL UNKNOWN. MP LOWER LIP OF DISCHARGE PIPE, 1.60 FT ABOVE LSD. LSD. 5.03 FT NGVD.

HIGHEST WATER LEVEL 5.59 BELOW LSD, MAY 21, 1947, LOWEST WATER LEVEL 35.37 BELOW LSD, JULY 20, 1978. RECORDS AVAILABLE 1946-72, 1974-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LFVEL	DATE	LEVEL	DATE	LEVEL
FEB. 18. 1981							

294344092491601 LOCAL WELL NUMBER: CN-60

OWNER: ROCKEFFLLER NATIONAL WILDLIFF REFUGE. (SEC. 19, T. 155., R. 4W.) DRILLED STOCK-SUPPLY ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE. DIAM 10 TO 6 IN. REPORTED DEPTH 274 FT. SCREENED 211-274. MP TOP EDGE OF 1-IN NIPPLE. 2.40 FT ABOVE LSD.

211-274. MM TOF EDGL LSD 3.87 FT NGVD. HIGHEST WATER LEVEL 5.97 BELOW LSD, SEP. 10, 1958, LOWEST WATER LEVEL 10.86 BELOW LSD, FER. 17, 1981. RECORDS AVAILABLE 1957-72, 1974-79, CURRENT YEAR.

	WATER		WATER		WATER		WATER
	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FFB. 17, 1981							

295324093240601 LOCAL WELL NUMBER: CN-73

OWNER: SABINE NATIONAL WILDLIFE REFUGF. (SEC. 32, T. 135., R. 10W.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN CHICOT AQUIFFR OF PLEISTOCENE AGE. DIAM 6 TO 4 IN, REPORTED DEPTH 515 FT, SCREENED 500-515. MP TOP OF 1/2-IN PLUG HOLE IN STEEL PLATE, 0.50 FT AROVE LSD.

LSD 9.59 FT NGVD. HIGHEST WATER LEVEL 19.40 RELOW LSD, MAR. 27, 1961, LOWEST WATER LEVEL 38.84 RFLOW LSD, FER. 15, 1978. RFCORDS AVAILABLE 1961-72, 1974-79, CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 20, 1981							

295846092381104 LOCAL WELL NUMBER: CN-80U

OWNER: U. S. GEOL. SURVEY. (SEC. 24, T. 12S., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE. DIAM 2 IN. DEPTH 453 FT. SCREENED 443-453. MP TOP OF 1-IN PIPE. 3.32 FT AROVE LSD.

LSD 4.73 FT NGVD.

LSD 4.73 FT NGVD.
HIGHEST WATER LEVEL 19.42 BELOW LSD, MAR. 22. 1965.
LOWEST WATER LEVEL 30.80 BELOW LSD. JUNE 20. 1978.
PECORDS AVAILABLE 1964-75. 1977-CURRENT YEAR.

WATER		WATER		WATER		WATER
LEVEL	DATE	LEVEL	DATE		DATE	LEVEL
	FER, 24, 1981					

295846092381105 LOCAL WELL NUMBER: CN-80L

OWNER: U. S. GEOL. SURVEY. (SEC. 24, T. 125., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE. DIAM 2 TO 1 IN. DEPTH 481 FT. SCREENED 475-481. MP TOP OF 1-IN PIPE. 3.32 FT ABOVE LSD.

PIPE: 3.32 FT ABOVE LSD 4.73 FT NGVD. HIGHEST WATER LEVEL 19.47 BELOW LSD: MAR. 22: 1965: LOWEST WATER LEVEL 30.88 BELOW LSD: JUNE 20: 1978.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FER. 18, 1981							

300125092382503 LOCAL WELL NUMBER: CN-81U

OWNER: U. S. GEOL. SURVEY. (SEC. 11, T. 12S., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN. DEPTH 448 FT. SCREENED 438-448. MP TOP OF 1-IN PIPE. 3.18 FT ABOVE LSD. LSD 4.45 FT NGVD.

20.92 RELOW LSD. MAR. 22. 1965.

HIGHEST WATER LEVEL 20.92 RELOW LSD. MAR. 25, 1969.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LFVEL	DATE	LEVEL
FER. 18, 1981							

300125092382504 LOCAL WELL NUMBER: CN-81L

OWNER: U. S. GEOL. SURVEY. (SEC. 11, T. 125., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE. DIAM 2 TO 1 IN. DEPTH 478 FT. SCREENED 468-478. MP TOP OF 1-IN PIPE. 3.18 FT ABOVE LSD.

LSD 4.45 FT NGVD.

LOWEST WATER LEVEL 20.99 RELOW LSD. MAR. 22. 1965. LOWEST WATER LEVEL 30.42 BELOW LSD. APR. 27, 1972.

RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	 DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 18, 198							

300120093320801 LOCAL WELL NUMBER: CN-86U

OWNER: U. S. GEOL. SURVEY. (SEC. 13, T. 12S., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFFR OF PLFISTOCENF AGE, DIAM 4 IN, DEPTH 535 FT, SCREENED 525-535. MP TOP OF 1-IN PIPE, 2.91 FT ABOVE LSD.

LSD 3.66 FT NGVD.

HIGHEST WATER LEVEL 32.01 BELOW LSD. APR. 12. 1965 LOWEST WATER LEVEL 51.22 BELOW LSD. SEP. 19. 1971. RECORDS AVAILABLE 1964-CURRENT YEAR. 32.01 BELOW LSD. APR. 12. 1965.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
		FER. 19, 1981					

300120093320802 LOCAL WELL NUMBER: CN-86L

OWNER: U. S. GEOL. SURVEY. (SEC. 13, T. 12S., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLFISTOCENE AGE, DIAM 4 TO 1 IN, DEPTH 641 FT, SCREENED 631-641. MP TOP OF 1-IN PIPE, 2.91 FT ABOVE LSD.

LSD 3.66 FT NGVD.
HIGHEST WATER LEVEL 32.16 RELOW LSD, APR. 12, 1965,
LOWEST WATER LEVEL 51.34 BELOW LSD, SEP. 19, 1971.
RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
		FEB. 19, 1981					

CAMERON PARISH

295324093240602 LOCAL WELL NUMBER: CN-87

OWNER: U. S. GEOL. SURVEY. (SEC. 32, T. 135., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 804 FT, SCREFNED 798-804. MP TOP OF 2-IN CASING, 1.00 FT ABOVE LSD.

LSD 8.46 FT NGVD.

LSD 8.46 FT 1997.

HIGHEST WATER LEVEL 22.38 RELOW LSD, DEC. 1978.

1 OWEST WATER LEVEL 49.63 RELOW LSD, SEP. 28, 1978. 22.38 RELOW LSD. DEC. 16. 1963.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FFB. 20, 1981							

300055093093003 LOCAL WELL NUMBER: CN-88U

OWNER: U. S. GEOL. SURVEY. (SEC. 14, T. 125., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN. DEPTH 666 FT. SCREENED 656-666. MP TOP OF 1/2-IN PIPE, 2.68 FT ABOVE LSD.

LSD 8.86 FT NGVD.

HIGHEST WATER LEVEL 39.97 RELOW LSD. APR. 13, 1965, LOWEST WATER LEVEL 66.62 RELOW LSD, JULY 21, 1978. LOWEST WATER LEVEL

RECORDS AVAILABLE 1964-79. CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FER. 17, 1981	56.51						

300055093093004 LOCAL WELL NUMBER: CN-88L

OWNER: U. S. GEOL. SURVEY. (SEC. 14, T. 125., R. 8W.) DRILLED ORSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 1/2 IN, DEPTH 804 FT, SCREENED 794-804. MP TOP OF 1/2-IN PIPE, 2.68 FT ABOVE LSD. 8.86 FT NGVD.

HIGHEST WATER LEVEL 40.27 BELOW LSD. APR. 13. 1965 LOWEST WATER LEVEL 66.95 BELOW LSD. JULY 21. 1978. RECORDS AVAILABLE 1964-79. CURRENT YEAR. 40.27 RELOW LSD. APR. 13. 1965.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FFB. 17, 1981							

295148092505901 LOCAL WELL NUMBER: CN-99

OWNER: U. S. CORPS OF ENGINEERS. (SEC. 1. T. 145., R. 5W.) DRILLED DOMESTIC ARTESIAN WELL IN CHICOT AGUIFFR OF PLEISTOCENE AGE. DIAM 4 TO 2 IN. REPORTED DEPTH 350 FT. SCREENED INTERVAL UNKNOWN. MP TOP OF 1/4-IN TAP HOLE IN CASING CAP. 1.00 FT ABOVE LSD.

LSn 6.49 FT NGVD.

HIGHEST WATER LEVEL 19.32 RELOW LSD, MAR. 25. 1964, LOWEST WATER LEVEL 29.00 BELOW LSD, SEP. 21, 1978. LOWEST WATER LEVEL

RECORDS AVAILABLE 1964-72, 1974-79, CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE		DATE	LEVEL	DATE	LEVEL
FER. 23, 1981							

295611093044801 LOCAL WELL NUMBER: CN-90

OWNER: U. S. GEOL. SURVEY. (SEC. 4. T. 135., R. 7W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN. DEPTH 396 FT. SCREENED 386-396. MP TOP OF 4-IN CASING. 1.71 FT AROVE LSD.
LSD 3.19 FT NGVD.
HIGHEST WATER LEVEL 20.04 RELOW LSD, APR. 13, 1965.
36.85 BELOW LSD, AUG. 14, 1973.

20.04 RELOW LSD, APR. 13, 1965,

	WATER		WATER		WATER		WATER
DATE	LEVEL	 DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FFB. 17. 1981							

300104093015601 LOCAL WELL NUMBER: CN-92

OWNER: U. S. GEOL. SURVEY. (SEC. 12. T. 125., R. 7W.) DPILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE. DIAM 2 IN. DEPTH 443 FT. SCREENED 438-443. MP TOP OF 2-IN CASING,

2.00 FT ABOVE LSD. LSD 5.50 FT NGVD. HIGHEST WATER LEVEL 26.02 BELOW LSD, APR. 13, 1965, LOWEST WATER LEVEL 53.96 BELOW LSD, AUG. 14, 1973. LOWEST WATER LEVEL 53.96 BELOW LSD-RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FFB. 18, 1981							

294709093174301 LOCAL WELL NUMBER: CN-93

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 16. T. 15S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN. DEPTH 360 FT. SCREENED 355-360. MP TOP OF 2-IN CASING, 3.00 FT AROVE LSD.

9.64 BELOW LSD, DEC. 15, 1965,

CASING, 3.00 FT MOVEL LSD 3.76 FT NGVD. HIGHEST WATER LEVEL 9.64 BELOW LSD, DEC. 15, 1965. 25.83 BELOW LSD, FER. 28, 1979.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LFVFL	DATE	LEVEL	DATE	LEVEL
FEB. 20, 1981							

294543093391401 LOCAL WELL NUMBER: CN-94

OWNER: U. S. GEOL. SURVEY. (SEC. 17. T. 155., R. 13W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE. DIAM 2 IN. DEPTH 1.118 FT, SCREENED 1.112-1.118. MP TOP OF 2-IN CASING. 2.50 FT ABOVE LSD.

6.22 FT NGVD.

HIGHEST WATER LEVEL 30.12 RELOW LSD, JUNE 17, 1965, LOWEST WATER LEVEL 41.82 BELOW LSD, FEB. 20, 1981.

RECORDS AVAILABLE 1965-72, 1974-79, CURRENT YEAR.

WATER WATER WATER WATER DATE LFVEL DATE DATE LEVEL DATE LFVFL LEVEL

294526092424801 LOCAL WELL NUMBER: CN-112

OWNER: PAN AMERICAN PETROLEUM CO. (SEC. 8, T. 155., R. 3W.) DRILLED INDUSTRIAL ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 11 TO 7 IN, REPORTED DEPTH 247 FT, SCREENED 205-247. MP TOP OF 3/4-IN NIPPLE, 0.90 FT AROVE LSD.

4.00 FT NGVD.

HIGHEST WATER LEVEL 14.32 BELOW LSD, FEB. 22. 1972. LOWEST WATER LEVEL 15.43 BELOW LSD. FEB. 17. 1981. RECORDS AVAILABLE 1972, 1974-79. CURRENT YEAR. 14.32 BELOW LSD, FEB. 22. 1972,

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 17, 1981							

300113093365701 LOCAL WELL NUMBER: CN-113

OWNER: SHELL OIL CO. (SFC. 17, T. 125.. R. 12W.) DRILLED INDUSTRIAL ARTESIAN WELL IN CHICOT ACCUIFER OF PLEISTOCENE AGE, DIAM UNKNOWN, REPORTED DEPTH 600 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF CASING, 1.40 FT ABOVE LSD.

LSD 4.00 FT NGVD.
HIGHEST WATER LEVEL 46.22 BELOW LSD, MAR. 3, 1976,
LOWEST WATER LEVEL 50.04 BELOW LSD, FER. 28, 1979.

RECORDS AVAILABLE 1975-79, CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 19. 1981							

GROUND-WATER LEVELS

CAMERON PARISH

294615093004201 LOCAL WELL NUMBER: CN-118

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 15S., R. 6W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 638 FT, SCREENED 628-638. MP TOP OF 2-IN CASING, 2.33 FT ABOVE LSD.

LSD 5.00 FT NGVD.

HIGHEST WATER LEVEL 20.58 BELOW LSD, APR. 28. 1975, LOWEST WATER LEVEL 23.39 BELOW LSD, DEC. 6, 1979. RECORDS AVAILABLE 1974-79, CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FFR. 17. 1981							

294709093174302 LOCAL WELL NUMBER: CN-119

OWNER: U. S. GEOL. SURVEY. (SEC. 16, T. 15S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 910 FT, SCREENED 900-910. MP TOP OF 2-IN CASING. 2.86 FT AROVE LSD.

3.50 FT NGVD.

HIGHEST WATER LEVEL 29.34 RELOW LSD, JUNE 19. 1975, LOWEST WATER LEVEL 31.49 BELOW LSD, DEC. 9, 1974. RECORDS AVAILABLE 1974-CURRENT YEAR.

	WATER		WATER	NATER WATER			
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FFR. 21, 1981							

295721093115701 LOCAL WELL NUMBER: CN-120

OWNER: U. S. GEOL. SURVEY. (T. 13S., R. 8W.) DRILLED ORSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN. DEPTH 764 FT. SCHEENED 754-764. MP TUP OF 2-IN CASING. 2.30 FT ABOVE LSD.

LSD 3.00 FT NGVD.
HIGHEST WATER LEVEL 36.85 BELOW LSD, DEC. 3, 1975,
LOWEST WATER LEVEL 51.02 BELOW LSD, JUNE 16, 1978,
RECORDS AVAILABLE 1974-79, CURRENT YEAR.

	WATER		WATER		WATER	WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FFR. 17, 1981	45.53						

300040093161801 LOCAL WELL NUMBER: CN-121

OWNER: U. S. GEOL. SURVEY. (SEC. 18, T. 12S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE. DIAM 2 IN. DEPTH 691 FT. SCREENED 681-691. MP TOP OF 2-IN CASING. 2.50 FT AROVE LSD.

LSD 3.00 FT NGVD.

HIGHEST WATER LEVEL 53.84 BELOW LSD, APR. 22, 1975, MAR. 4, 1976,

HOWEST WATER LEVEL 61.00 BELOW LSD, JUNE 16, 1978.

RECORDS AVAILABLE 1974-79. CURRENT YEAR.

	WATER		WATER		WATER	WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FFR. 17. 1981							

300140093202201 LOCAL WELL NUMBER: CN-122

OWNER: U. S. GEOL. SURVEY. (SEC. 12, T. 125. R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFFR OF PLEISTOCENE AGE, DIAM 2 IN. DEPTH 920 FT, SCREENED 910-920. MP TOP OF 2-IN CASING. 3.40 FT ABOVE LSD. 2.00 FT NGVD.

HIGHEST WATER LEVEL 59.04 RELOW LSD, MAR. 3, 1976, LOWEST WATER LEVEL 64.79 BELOW LSD, DEC. 3, 1974. RECORDS AVAILABLE 1974-79, CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
		FER. 26, 1981	60.09				

CAMERON PARISH

294557093223601 LOCAL WELL NUMBER: CN-123

OWNER: CAMERON PARISH POLICE JURY. (SEC. 21, T. 155.* R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGF, DIAM 2 IN, DEPTH 236 FT, SCREENED 226-236. MP TOP OF 2-IN CASING, 2.30 FT ABOVE LSD.

5.00 FT NGVD.

HIGHEST WATER LEVEL 19.99 BELOW LSD, JUNE 18, 1975, LOWEST WATER LEVEL 24.06 BELOW LSD, DEC. 4, 1979, RECORDS AVAILABLE 1975-79, CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 20: 1981							

295839093203501 LOCAL WELL NUMBER: CN-134

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 47. T. 12S.. R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AGUIFER OF PLEISTOCFNE AGE. DIAM 4 TO 2 IN. DEPTH 710 FT. SCREENED 690-710. MP TOP OF 4-IN COUPLING. 2.00 FT ABOVE LSD.

5.00 FT NGVD. 150

HIGHEST WATER LEVEL 49.99 RELOW LSD. FER. 23. 1977. LOWEST WATER LEVEL 56.68 RELOW LSD. JULY 21. 1978.

RECORDS AVAILABLE 1977-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FFR. 20. 1981	52.67						

IBERIA PARISH

295748091571001 LOCAL WELL NUMBER: I-19

OWNER: MCILHENNY CO. (IRREG. SEC. 59. T. 12S., R. 5F.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN, REPORTED DEPTH 460 FT, SCREENED 380-460. MP HOLE IN STEEL PLATE RELOW PUMP. 1.88 FT ABOVE LSD.

9.72 FT NGVD.

HIGHEST WATER LEVEL 3.65 BELOW LSD, MAY 11, 1944, LOWEST WATER LEVEL 15.41 BELOW LSD, FER. 18, 1981. RECORDS AVAILABLE 1944-62, 1964, 1966-67, 1969, 1971-72, 1974, 1976-79, CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 18, 1981							

295108091471501 LOCAL WELL NUMBER: I-36

OWNER: U. S. GEOL. SURVEY. (SEC. 6, T. 145., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN. DEPTH 284 FT. SCREENED 276-284. MP TOP OF 2-IN CASING, 2.00 FT ABOVE LSD.

4.12 FT NGVD.

HIGHEST WATER LEVEL 3.25 RELOW LSD. MAR. 22, 1966. COMEST WATER LEVEL 5.25 BELOW LSD. FER. 18. 1981.
RECORDS AVAILABLE 1966-71, 1974-79. CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FED. 10. 1001							
FFB. 18, 1981		A Carallana				700X5 - 523052	

300035091443301 LOCAL WELL NUMBER: 1-93

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 5. T. 125.. P. 7E.) DRILLED ORSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE. DIAM 2 IN. DEPTH 585 FT. SCREENED 580-585. MP TOP OF 2-IN CASING. 3.00 FT ABOVE ISD.

LSD 18.53 FT NGVD.

15.29 RELOW LSD, FER. 25. 1974,

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FFR. 18. 1981		MAR. 11. 1981					

JEFFERSON PARISH

295509090034001 LOCAL WELL NUMBER: JF-48

OWNER: PURLICKER CHEMICAL CORP. (SEC. 7, T. 135., R. 24F.) DRILLED INDUSTRIAL ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 16 IN, DEPTH 780 FT, SCREFNED 700-780. MP HOLE IN CASING FLANGE AT TOP OF CONCRETE FOUNDATION, 0.90 FT ABOVE LSD.

LOWEST WATER LEVEL 81.62 RELOW LSD, APR. 8, 1981.
LOWEST WATER LEVEL 106.81 BELOW LSD, SEP. 15, 1976.
RECORDS AVAILABLE 1957, 1975-CURRENT YEAR. 81.62 RELOW LSD, APR. 8, 1981,

	WATER DATE LEVEL 1			134	2	WATER				WATER		-21	WATER		
	DA.	TF	LEVEL		DA	TF.	LEVEL		DA	1E	LEVEL		DA	I E	LEVEL
NOV.	4,	1980	89.21	APR.	8,	1981	81.62	JULY	29,	1981	90.32	SEP.	29,	1981	91.28
JAN.	52.	1981	83.59												

295906090152701 LOCAL WELL NUMBER: JF-65

OWNER: CITY OF NEW ORLEANS AVIATION ROARD. (SEC. 37. T. 125., R. 9E.) DRILLED INDUSTRIAL ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGF. DIAM 10 TO 8 IN. DEPTH 698 FT. SCREENED 638-698. MP HOLE IN SAFETY SEAL, 1.00 FT ABOVE LSD. LSD 1.00 FT NGVD.
HIGHEST WATER LEVEL 28.50 RELOW LSD, DEC. 23, 1958,
LOWEST WATER LEVEL 56.64 RELOW LSD, APR. 6, 1972.
RECORDS AVAILABLE 1958, 1960-61, 1963, 1965-70, 1972, 1974-75, 1977-78, 1980-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
		JAN. 15, 1981					50.39

300109090091001 LOCAL WELL NUMBER: JF-71

OWNER: GREATER NEW ORLEANS EXPRESSWAY COMMISSION. (SEC. 46, T. 125., R. 10E.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 566 FT, SCREENED 551-566. MP HOLE IN SAFETY SEAL, 3.40 FT ABOVE LSD.

11.00 FT NGVD. 150

HIGHEST WATER LEVEL 66.60 RELOW LSD, MAR. 5, 1963 LOWEST WATER LEVEL 87.43 RELOW LSD, OCT. 17, 1973. RECORDS AVAILABLE 1963, 1965-CURRENT YEAR.

 	WATER	 	WATER		WATER		WATER
DATE	LEVEL	 DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
					74.79		

295858090154101 LOCAL WELL NUMBER: JF-153

OWNER: W. & H. WAREHOUSE CO. (SEC. 37. T. 125., R. 9E.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 8 IN. DEPTH 670 FT. SCREENED 630-670. MP TOP EDGE STEEL PLATE ATOP CASING, 2.20 FT ABOVE LSD.

EDGE STEEL PLATE A.O.
LSD 2.00 FT NGVD.
HIGHEST WATER LEVEL 44.28 BELOW LSD. JAN. 15. 1981.
OWEST WATER LEVEL 46.05 BELOW LSD. SEP. 29. 1981.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
		SEP. 29, 1981					

295739090094601 LOCAL WELL NUMBER: JF-156

OWNER: JFFFFRSON PARISH CONSOLIDATED WATER DISTRICT. (SEC. 46, T. 125., R. 10E.) DRILLED UNUSED APTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFFR OF PLEISTOCENE AGE, DIAM 6 IN, DEPTH 780 FT, SCREENED 660-780. MP TOP OF 4-IN PLASTIC LINER, 2.05 FT ABOVE LSD. HIGHEST WATER LEVEL 79.13 BELOW LSD. APR. 8. 1981.
LOWEST WATER LEVEL 94.34 BELOW LSD. NOV. 11. 1975.
RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER
NOV. 4, 1980 JAN. 22, 1981	85.25 A			JULY 29, 1981			84.87

301001089441301 LOCAL WELL NUMBER: 0R-23

OWNER: LOUISIANA PARKS AND RECREATION COMMISSION. (SEC. 19, T. 105., R. 15E.) ORILLED UNUSED ARTESIAN WELL IN GONZALES-NEW URLEANS AQUIFER OF PLEISTOCENE AGE. DIAM 6 IN. REPORTED DEPTH 547 FT. SCREENED INTERVAL UNKNOWN. MP TOP OF 6 X 2-IN REDUCER, 0.40 FT ABOVE LSD.

2.00 FT NGVD. HIGHEST WATER LEVEL 2.24 RELOW LSD, MAR. 25, 1958, LOWEST WATER LEVEL 18.01 BELOW LSD, DEC. 11, 1980, RFCORDS AVAILABLE 1957-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
		JULY 29, 1981					

295652090020101 LOCAL WELL NUMBER: 0R-42

OWNER: U. S. NAVY. (SEC. 16, T. 13S., R. 12E.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM B IN, REPORTED DEPTH 775 FT, SCREFNED 664-775. MP TOP OF 2 X 6-IN RECORDER BASE, 1.00 FT ABOVE LSD.

10.00 FT NGVD.

ST WATER LEVEL 40.07 RELOW LSD, MAY 25, 1942, HIGHEST WATER LEVEL 40.07 RELOW LSD. MAY 25, 1942. LOWEST WATER LEVEL 140.48 BELOW LSD. SEP. 20, 1968.

RECORDS AVAILABLE 1942. 1949-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
NOV. 4. 1980 JAN. 22. 1981	103.86 APR			JULY 29, 1981	101.96	SEP. 29, 1981	101.12

300137089544201 LOCAL WELL NUMBER: 0R-78

OWNER: NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. (SEC. 37, T. 125., R. 13E.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 12 TO 9 IN, DEPTH 565 FT. SCREENED 486-565. MP HOLE IN SAFETY SEAL. 1.36 FT ABOVE LSD. 4.00 FT NGVD.

HIGHEST WATER LEVEL 42.94 BELOW LSD. APR. 12. 1961. LOWEST WATER LEVEL 117.46 BELOW LSD. JULY 21. 1976. 42.94 BELOW LSD, APR. 12, 1961,

RECORDS AVAILABLE 1960-CURRENT YEAR.

	WATER				WATER				WATER				WATER
 DA	 LEVEL		DA		LEVEL		DA		LEVEL		DA	TE	LEVEL
	110.62 104.84	APR.	8,	1981	102.97	JULY	29,	1981	110.65	SEP.	29,	1981	108.87

300158090033801 LOCAL WELL NUMBER: 0R-128

OWNER: ORLEANS LEVEE ROARD, PONTCHARTRAIN REACH. (SEC. 111, T. 125., R. 11e.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 8 TO 6 IN, DEPTH 581 FT. SCREENED 541-581. MP TOP EDGE OF HOLE IN SANITARY SEAL, 1.32 FT ABOVE LSD.

LON 5.00 FT NGVD.
HIGHEST WATER LEVEL 107.66 BELOW LSD, JULY 21, 1976.

RECORDS AVAILABLE 1970-CURRENT YEAR.

		WATER			WATER		WATER		WATER
r	DATE	LEVEL	T.	ATE	LEVEL	DATE	LEVEL	DATE	LEVEL
NOV.	4, 1980	120.33	MAR. 2	, 1981	111.71	JUNE 18, 1981	116.01	AUG. 27, 1981	120.63
FC. 11	1	113.28	APR. 8		111.38	JULY 29	119.68	SEP. 29	122,20
AN. 22	1981	117.62	MAY 11		112.63				

300411089571401 LOCAL WELL NUMBER: 0R-156

OWNER: ORLEANS LEVEE BOARD. (SEC. 25. T. 115., R. 12E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("11.200-FT" SAND OF THE NEW ORLEANS AREA) OF PLEISTOCENE AGE, DIAM 10 TO 8 IN, DEPTH 807 FT, SCREFNED 747-807. MP HOLE IN SANITARY SEAL, 1.30 FT ABOVE LSD.

2.00 FT NGVD.

HIGHEST WATER LEVEL 35.98 BELOW LSD, JUNE 10, 1981, LOWEST WATER LEVEL 36.70 HELOW LSD, SEP. 29, 1981. RECORDS AVAILABLE 1980-CURRENT YEAR.

DATE	WATER LEVEL		DA	TE	WATER LEVEL		DA	TF	WATER LEVEL		DA	TE	WATER LEVEL
DFC. 11, 1980 JAN. 22, 1981	36.55 36.67	JUNE	10,	1981	35.98	JULY	29•	1981	36.30	SEP.	29,	1981	36.70

ORLEANS PARISH

300525089464001 LOCAL WELL NUMBER: 0R-175

OWNER: U. S. GEOL. SURVEY. (SEC. 38. T. 11S.. R. 14E.) DRILLED OBSERVATION ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE. DIAM 2 IN. DEPTH 449 FT. SCREENED 439-449. MP TOP OF 2-IN CASING. 1.25 FT AROVE LSD.

10.00 FT NGVD.

HIGHEST WATER LEVEL 19.84 RELOW LSD, SEP. 19, 1963, LOWEST WATER LEVEL 37.23 BELOW LSD, JULY 29, 1981. RECORDS AVAILABLE 1963-CURRENT YEAR.

			WATER		WATER			WATER		WATER
	DA		LEVEL	 DA	 LEVEL	 DA.	-	LEVEL	 DA	 LEVEL
			36.95							36.91
JAN.	55.	1981	37.01							

300959089441901 LOCAL WELL NUMBER: 0R-179

OWNER: U. S. GEOL. SURVEY. (SEC. 19, T. 10S., R. 15F.) DRILLED OBSERVATION ARTESIAN WELL IN ZONE 3 SAND OF MIOCENE AGE, DIAM 2 IN, DEPTH 2434 FT, SCREENED 2429-2434. MP CENTERLINE OF DISCHARGE PIPE , 2.87 FT ABOVE LSD.

LSD 4.00 FT NGVD.
HIGHEST WATER LEVEL 107.20 ABOVE LSD, NOV. 10, 1965,
LOWEST WATER LEVEL 66.90 ABOVE LSD, SEP. 29, 1981.
RECORDS AVAILABLE 1965-CURRENT YEAR.

	WATER					WATER					WATER					WATER
DATE	LEVEL		DA	TE		LEVEL	SEREX.	DA	TF	6	LEVEL		DAT	E		LEVEL
IOV. 4, 198		APR.	8,	1981	+	68.00	JULY	29,	1981	+	67.40	SEP.	29,	1981	+	66.90

300,349089562401 LOCAL WELL NUMBER: 0R-203

OWNER: U. S. GEOL. SURVEY. (SEC. 30, T. 115., R. 13F.) DRILLED OBSERVATION ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN. DEPTH 453 FT, SCREENED 448-453, MP TOP OF 2-IN CASING, 0.65 FT BELOW LSD.
LSD -5.00 FT NGVD.

81.72 RELOW LSD. SEP. 29. 1981.

HIGHEST WATER LEVEL 81.72 BELOW LSD, SEP. 29, 1981 LOWEST WATER LEVEL 81.72 BELOW LSD, SEP. 29, 1981. RECORDS AVAILABLE CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LFVEL
SEP. 29, 1981							

ST. MARY PARISH

294749091402301 LOCAL WELL NUMBER: SM-570

OWNER: U. S. GEOL. SURVEY. (SEC. 27. T. 14S., H. BE.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN. DEPIH 638 FT. SCREENED 628-638. MP TOP OF 1 1/2-IN PIPE , 2.50 FT ABOVE LSD. LSD 8.72 FT NGVD.

HIGHEST WATER LEVEL 6.40 BELOW LSD, APR. 15, 1965, LOWEST WATER LEVEL 10.25 BELOW LSD, DEC. 20, 1976. RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 18, 1981							

294749091402302 LOCAL WELL NUMBER: SM-57L

OWNER: U. S. GEOL. SURVEY. (SEC. 27. T. 145., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE. DIAM 4 TO 1 1/2 IN. DEPTH 738 FT. SCREENED 728-738. MP TOP OF 1 1/2-IN PIPE. 2.50 FT ABOVE LSD.

8.72 FT NGVD.

HIGHEST WATER LEVEL 7.54 RELOW LSD, AUG. 16, 1973, LOWEST WATER LEVEL 11.93 BELOW LSD, OCT. 22, 1970.

LOWEST WATER LEVEL 11.93 BELOW LSD.
RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LFVEL	DATE	LEVEL	DATE	LEVEL
FFB. 18, 1981		MAR. 11, 1981					

ST. MARY PARISH

295314091312101 LOCAL WELL NUMBER: SM-58

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 30, T. 135., R. 9E.) DRILLED OBSERVATION ARTESIAN WELL IN ATCHAFALAYA AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN. DEPTH 194 FT, SCREENED 188-194. MP TOP OF 2-IN CASING. 2.00 FT ABOVE LSD.

LSD 10.37 FT NGVD.
HIGHEST WATER LEVEL 3.35 BELOW LSD, FEB. 24, 1974,
LOWEST WATER LEVEL 7.69 BELOW LSD, FEB. 18, 1981.
RECORDS AVAILABLE 1966-72, 1974-79, CURRENT YEAR.

	WATER		WATER	WATER		WATER
DATE		DATE		 LEVEL	DATE	LEVEL
FFR. 18, 1981				 		

VERMILION PARISH

294705092115001 LOCAL WELL NUMBER: VE-28

OWNER: U. S. CORPS OF ENGINEERS. (SEC. 31, T. 14S., R. 3E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN CHICOT AQUIFFR OF PLEISTOCENE AGE, DIAM 2 IN, REPORTED DEPTH 260 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 2-IN PIPE, 1.08 FT ABOVE LSD.

6.74 FT NGVD. LSD

1.25 BELOW LSD. APR. 11, 1944,

RECORDS AVAILABLE 1944-72, 1974-79, CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 19, 1981	11.42						

295520092093001 LOCAL WELL NUMBER: VE-78

OWNER: J. F. NOEL, SR. (IKREG. SEC. 14, T. 135., R. 3E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFFR OF PLEISTOCENE AGE, DIAM 12 IN, REPORTED DEPTH 295 FT. SCREENED INTERVAL UNKNOWN. MP HOLE IN TOP OF DISCHARGE PIPE. 1.16 FT AROVE LSD. 8.71 FT NGVD.

HIGHEST WATER LEVEL 5.28 BELOW LSD, APR. 11, 1944, LOWEST WATER LEVEL 21.84 BELOW LSD, FER. 27, 1975, MAR. 5, 1976, RECORDS AVAILABLE 1944-66, 1968-69, 1971-72, 1974-79, CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FFR. 19. 1981							

300251092275801 LOCAL WELL NUMBER: VE-128

OWNER: CHARLES STANSEL. (IRREG. SEC. 33, T. 11S., R. 1W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 10 IN, REPORTED DEPTH 330 FT, SCREENED 230-330. MP LOWER LIP OF DISCHARGE PIPE, 2.40 FT AROVE LSD.

9.86 FT NGVD.

HIGHEST WATER LEVEL 6.40 BELOW LSD, APR. 8, 1948, LOWEST WATER LEVEL 33.95 BELOW LSD, AUG. 26, 1965. RECORDS AVAILABLE 1946-72, 1974-79, CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 18. 1981							

300245092200301 LOCAL WELL NUMBER: VE-333

OWNER: JOSEPH HERPIN. (SEC. 35, T. 115., R. 1E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT ADUIFER OF PLEISTOCENE AGE, DIAM 10 TO 8 IN, REPORTED DEPTH 280 FT, SCHEENED INTERVAL UNKNOWN. MP LOWER LIP OF DISCHARGE PIPE. 4.31 FT AROVE LSO.

LSD 14.03 FT NGVD.

HIGHEST WATER LEVEL 15.69 BELOW LSD, MAR. 21, 1950,
LOWEST WATER LEVEL 51.79 RELOW LSD, MAY 26, 1981.

RECORDS AVAILABLE 1948-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER	DATE	WATER LEVEL
OCT. 23, 1980 NOV. 20 DEC. 22	36.52	JAN. 23, 1981 FER. 18 MAR. 19		APR. 16, 1981 MAY 26 JUNE 16	51.79	JULY 22, 1981 AUG. 24 SEP. 23	40.89 45.84 44.72

VERMILION PARISH

295650092245001 LOCAL WELL NUMBER: VE-442

OWNER: ROBELY SIMON. (SEC. 1, T. 13S., R. 1W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 20 TO 10 IN, DEPTH 281 FT, SCREENED 198-281. MP LOWER LIP OF DISCHARGE PIPE, 5.08 FT ABOVE LSD.

LSD 5.42 FT NGVO.

HIGHEST WATER LEVEL 11.88 RELOW LSD, APR. 4, 1956, LOWEST WATER LEVEL 21.62 BELOW LSD, FEB. 19, 1981. RECORDS AVAILABLE 1954-72, 1974-79, CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 19, 1981							

295645092165501 LOCAL WELL NUMBER: VE-460

OWNER: RENE DRONET. (SEC. 5. T. 135., R. 2E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 24 TO 10 IN, REPORTED DEPTH 300 FT. SCREENED INTERVAL UNKNOWN. MPLOWER LIP OF DISCHARGE PIPE. 4.53 FT ABOVE LSD.

LOWER LIP OF DISCHARGE FIFE, 4.35; ABOVE LOVEL LSD. 9.78 FT NGVD.
HIGHEST WATER LEVEL 4.20 RELOW LSD, MAR. 15: 1949:
LOWEST WATER LEVEL 23.07 BELOW LSD, MAR. 9: 1977.
RECORDS AVAILABLE 1948-72: 1974-75: 1977-79: CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 19, 1981							

300117092005601 LOCAL WELL NUMBER: VE-501

OWNER: GERMAIN BARES. (SEC. 1, T. 125., R. 4E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 8 IN, REPORTED DEPTH 227 FT, SCREENED 162-227. MP LOWER LIP OF DISCHARGE PIPE, 12.90 FT ABOVE LSD. LSD 21.62 FT NGVD.

HIGHEST WATER LEVEL 20.62 BELOW LSD, MAR. 26, 1962, LOWEST WATER LEVEL 28.70 BELOW LSD, MAR. 1, 1978, RECORDS AVAILABLE 1958-66, 1968-72, 1974-75, 1977-79, CURRENT YEAR.

	WATER	17,722 49,51,72,72	WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 19. 1981	28.65						

300240092083201 LOCAL WELL NUMBER: VE-586

OWNER: E. O. BROUSSARD. (SEC. 34, T. 115., R. 3E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 8 IN, REPORTED DEPTH 259 FT, SCREENED 195-259. MP 1/2-IN PLUG ON SIDE OF PIPE, 3.02 FT ABOVE LSD.

15.40 FT NGVD.

HIGHEST WATER LEVEL 19.47 BELOW LSD, APR. 29, 1958, LOWEST WATER LEVEL 30.78 BELOW LSD, FEB. 6, 1974, MAR. 9, 1976. RECORDS AVAILABLE 1958-68, 1974-79, CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 19, 1981						•	

295315092075001 LOCAL WELL NUMBER: VE-626

OWNER: U. S. GEOL. SURVEY. (SEC. 54, T. 135., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 66 FT, SCREENED 62-66. MP TOP OF CASING. 1.50 FT ABOVE LSD.

4.63 FT NGVD. LSD

HIGHEST WATER LEVEL 8.27 BELOW LSD, MAR. 2, 1966, LOWEST WATER LEVEL 14.03 BELOW LSD, JUNE 24, 1964.

RECORDS AVAILABLE 1963-66, 1980-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 19, 1981							

294825092202004 LOCAL WELL NUMBER: VE-629U

OWNER: U. S. GEOL. SURVEY. (SEC. 23, T. 14S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 TO 1 IN. DEPTH 457 FT, SCREENED 447-457. MP TOP OF 1-IN PIPE . 2.95 FT AROVE LSD.

1.79 FT NGVD. ISD

HIGHEST WATER LEVEL 3.77 BELOW LSD, MAR. 9, 1966, 7.40 BELOW LSD, AUG. 11, 1977. LOWEST WATER LEVEL

RECORDS AVAILABLE 1964-CURRENT YEAR.

WATER WATER WATER WATER DATE LEVEL DATE DATE LEVEL DATE LEVEL LEVEL 6.20 MAR. 9, 1981

294825092202005 LOCAL WELL NUMBER: VE-629L

OWNER: U. S. GEOL. SURVEY. (SEC. 23. T. 14S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 TO 1 IN. DEPTH 487 FT. SCHEENED 477-487. MP TOP OF 1-IN PIPE 2.95 FT ABOVE LSD. LSD 1.79 FT NGVD.

HIGHEST WATER LEVEL 3.89 BELOW LSD, MAR. 9, 1966, LOWEST WATER LEVEL 7.46 BELOW LSD, AUG. 11, 1977.

RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER	WATER		WATER		WATER
DATE	LEVEL	LEVEL	DATE	LEVEL	DATE	LEVEL
FFR. 19. 1981						

295031092203202 LOCAL WELL NUMBER: VE-630U

OWNER: U. S. GFOL. SURVEY. (SEC. 10, T. 14S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 TO 1 IN, DEPTH 498 FT, SCREENED 488-498. MP TUP UF 1-IN PIPE . 2.93 FT ABOVE LSD.

4.75 FT NGVD.

HIGHEST WATER LEVEL 7.15 BELUW LSD, MAR. 5, 1968, LOWEST WATER LEVEL 11.74 BELOW LSD, AUG. 11, 1977.

LOWEST WATER LEVEL 11.74 BELOW LSO. RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 19, 1981							

295031092203203 LOCAL WELL NUMBER: VE-630L

OWNER: U. S. GEOL. SURVEY. (SEC. 10. T. 145., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGF. DIAM 2 TO 1 IN. DEPTH 528 FT. SCREENED 518-528. MP TOP OF 1-IN PIPE + 2.93 FT ABOVE LSD.

4.75 FT NGVD.

LSD 4.75 FT MATER LEVEL 7.38 BELOW LSD, MAK. 7.37. HIGHEST WATER LEVEL 11.83 BELOW LSD, AUG. 11, 1977. 7.38 BELOW LSD, MAR. 9, 1966,

LOWEST WATER LEVEL 11.83 BELOW LSD.
RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
		MAR. 9, 1981					

294921092060201 LOCAL WELL NUMBER: VE-634

OWNER: U. S. GEOL. SURVEY. (SEC. 18. T. 145., R. 4E.) RORED ORSERVATION ARTESIAN WELL IN CHICOT AQUIFFR OF PLEISTOCENE AGE. DIAM 1 1/4 IN. DEPTH 86 FT. SCREENED 82-86. MP TOP OF CASING. AT LSn.

3.05 FT NGVD. LSD

HIGHEST WATER LEVEL 2.05 BELOW LSD+ FER. 19+ 1981. 2.05 BELOW LSD, FEB. 28, 1979,

	WATER		WATER		WATER		
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FER. 28, 1979	2.05		3.50				

VERMILION PARISH

295318092092001 LOCAL WELL NUMBER: VE-636

OWNER: U. S. GEOL. SURVEY. (SEC. 15, T. 13S., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN. DEPTH 76 FT. SCREENED 72-76. MP TOP OF CASING. 1.50 FT ABOVE LSD. 7.56 FT NGVD. LSD

HIGHEST WATER LEVEL 8.71 BELOW LSD, JULY 29, 1964 LOWEST WATER LEVEL 14.22 BELOW LSD, JUNE 24, 1964. RECORDS AVAILABLE 1963-65, 1980-CURRENT YEAR. 8.71 BELOW LSD, JULY 29, 1964,

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 19, 1981							

295345092100702 LOCAL WELL NUMBER: VE-637U

OWNER: U. S. GEOL. SURVEY. (SEC. 15. T. 13S., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 IN, DEPTH 198 FT, SCREENED 188-198. MP TOP OF 1-IN PIPE. 2.66 FT ABOVE LSD. 4.06 FT NGVD. ISD

HIGHEST WATER LEVEL 7.99 RELOW LSD, FEB. 24, 1966, LOWEST WATER LEVEL 13.51 BELOW LSD, JUNE 9, 1971. RECORDS AVAILABLE 1964-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
			12.05				

295345092100703 LOCAL WELL NUMBER: VE-637L

OWNER: U. S. GEOL. SURVEY. (SEC. 15, T. 13S., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 IN. DEPTH 243 FT, SCREENED 233-243. MP TOP OF 1-IN PIPE, 2.66 FT ABOVE LSD. PIPE, 2.66 FT AGUD.
LSD 4.06 FT NGVD.
HIGHEST WATER LEVEL 8.10 BELOW LSD, FEB. 24, 1966,
LOWEST WATER LEVEL 15.11 BELOW LSD, JUNE 25, 1970.

WATER			WATER	WATER			WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	
FFB. 19, 1981								

293845092264901 LOCAL WELL NUMBER: VE-639

OWNER: U. S. GEOL. SURVEY. (SEC. 2, T. 16S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE. DIAM 2 IN. DEPTH 608 FT. SCREENED 603-608. MP TOP OF 2-IN CASING. 3.00 FT ABOVE LSD. 5.84 FT NGVD. 150 HIGHEST WATER LEVEL 6.22 BELOW LSD, OCT. 20, 1965, 9.65 BELOW LSD, OCT. 29, 1976.

LOWEST WATER LEVEL RECORDS AVAILABLE 1965-79, CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FER. 19, 1981	9.60						

295204092091201 LOCAL WELL NUMBER: VE-646

OWNER: U. S. GEOL. SURVEY. (SEC. 65, T. 13S., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN. DEPTH 65 FT, SCREENED 62-65. MP TOP OF CASING, 0.50 FT ABOVE LSD. LSD 7.26 FT NGVD.

HIGHEST WATER LEVEL 11.85 RELOW LSD, AUG. 26, 1965, LOWEST WATER LEVEL 14.40 BELOW LSD, FEB. 19, 1981. RECORDS AVAILABLE 1965. 1980-CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 19: 1981							

WATER

LEVEL

295058092091401 LOCAL WELL NUMBER: VE-647

OWNER: U. S. GEOL. SURVEY. (SEC. 3, T. 14S., R. 3E.) RORED OBSERVATION ARTFSIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN. DEPTH 76 FT. SCREENED 73-76. MP TOP OF CASING. 1.00 FT ABOVE LSD. 5.56 FT NGVD.

HIGHEST WATER LEVEL 8.86 RELOW LSD, FEB. 28, 1979, LOWEST WATER LEVEL 10.75 BELOW LSD, FEB. 19, 1981. RECORDS AVAILABLE 1979, CURRENT YEAR.

	WATER		WATER		WATER		WATER	
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	
FER. 28, 1979			10.75					

295516092082501 LOCAL WELL NUMBER: VE-649

OWNER: U. S. GEOL. SURVEY. (SEC. 44, T. 13S., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 350 FT, SCREENED 344-350. MP TOP OF 2-IN CASING, 2.30 FT ABOVE LSD.

9.74 FT NGVD.

15.66 BELOW LSD, OCT. 22, 1965,

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LFVEL	DATE	LEVEL	DATE	LFVEL
FEB. 19, 1981	18.65 M	AR, 10, 1981	18.60				

295341092055401 LOCAL WELL NUMBER: VE-650

OWNER: U. S. GEOL. SURVEY. (SEC. 37. T. 135., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 205 FT, SCREENED 200-205. MP TOP OF 2-IN CASING, 2.50 FT ABOVE LSD. LSD 7.58 FT NGVD.

11.99 BELOW LSD, FEB. 24, 1966,

HIGHEST WATER LEVEL 11.99 BELOW LSD, FEB. 24, 1966-LOWEST WATER LEVEL 18.85 BELOW LSD, JULY 20, 1971.

RECORDS AVAILABLE 1965-79, CURRENT YEAR.

	WATER		WATER		WATER		
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	UATE	LEVEL
FEB. 19, 1981	15.00						

295504092320101 LOCAL WELL NUMBER: VE-654

OWNER: ELLIS STANSEL. (SEC. 14. T. 135., R. 2W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 26 TO 12 IN. REPORTED DEPTH 267 FT, SCREENED 187-267. MP LOWER LIP OF DISCHARGE PIPE, 5.82 FT ABOVE LSD.

9.60 FT NGVD. LSD

HIGHEST WATER LEVEL 14.68 RELOW LSD, MAR. 4, 1969, LOWEST WATER LEVEL 22.78 BELOW LSD, MAR. 9, 1977. RECORDS AVAILABLE 1969-70, 1972, 1974-79, CURRENT YEAR.

	WATER		WATER		WATER		WATER
DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
FEB. 18, 1981	21.68						

293214092180901 LOCAL WELL NUMBER: VE-658

OWNER: U. S. CORPS OF ENGINEERS. (SEC. 19. T. 175., R. 2E.) DHILLED DOMESTIC ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE. DIAM 6 IN. REPORTED DEPTH 645 FT. SCREENED INTERVAL UNKNOWN. MP TOP OF SANITARY SEAL. 2.25 FT ABOVE LSD.

LSD 8.60 FT NGVD.
HIGHEST WATER LEVEL 6.68 BELOW LSD, JAN. 22, 1969,
LOWEST WATER LEVEL 9.65 BELOW LSD, FEB. 22, 1972.
RECORDS AVAILABLE 1969-70, 1972, 1974-79, CURRENT YEAR.

WATER WATER DATE LEVEL DATE LEVEL DATE LEVEL

⁺ Above land-surface datum.

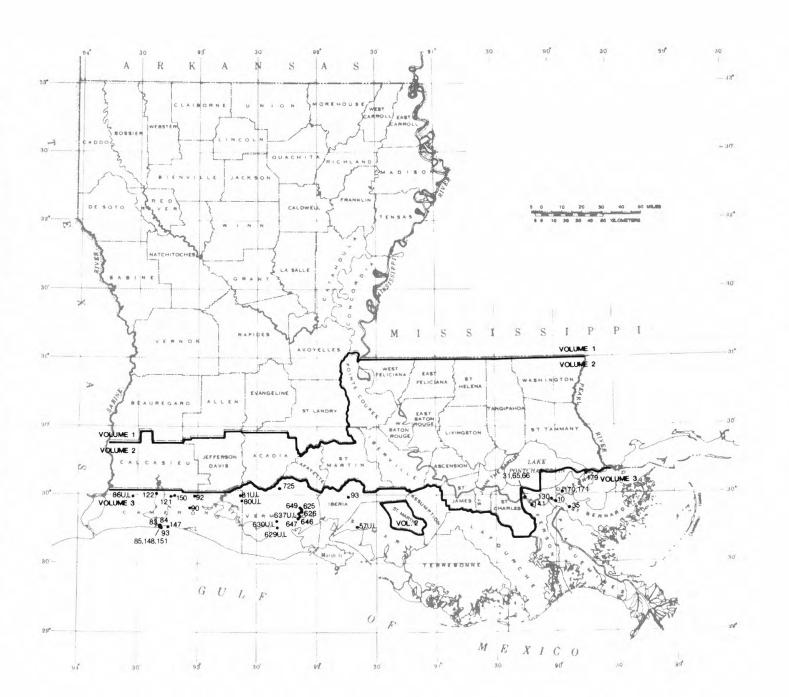


Figure 6.--Location of wells for which water-quality data are included in this report.

QUALITY OF GROUND WATER

CHEMICAL ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

	10	OCAL ENT- I- IER			STATION NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)
						C	CAMERON PA	RISH					
CN-	800	125	3W	24	295846092381104	112CHCTU	453	81-02-24	1120	1240		22.5	
CN-	80L	125	3W	24	295846092381105	112CHCTU	481	81-02-24	1215	1240		22.5	
CN-	810	125	314	11	300125092382503	112CHCTU	448	81-03-09	1015	1630		22.0	
CN-	81L	125	3₩	11	300125092382504	112CHCTU	478	81-03-09	1045	1860		22.5	
CN-	83	145	914	31	294756093192702	11205LC	277	81-02-27	1300	2000	7.7	24.5	
CN-	84	145	9W	32	294747093185002	112CHCTU	244	81-03-02	1340	1600	7.4	22.5	
CN-	85	155	9W	12	294715093182202	112CHCTU	300	81-02-27	1335	1610	7.8	22.5	
CN-	860	125	12W	13	300120093320801	11205LC	535	81-02-02	1250	1070		22.5	
CN-	86L	125	124	13	300120093320802	11205LC	641	81-02-02	1315	1810		22.5	
CN-	90	135	7 W	4	295611093044801	11204070	396	81-03-05	1300	971		23.0	
CN-	92	125	7 W	12	300104093015601	112CHCTU	443	81-03-05	1430	1820		23.0	••
CN-	93	155	9W	16	294709093174301	11204070	360	81-03-05	1130	1420		22.5	
CN-	121	125	8₩	18	300040093161801	11204070	691	81-03-06	1120	1130		23,5	
CN-	122	125	10W	12	300140093202201	11205LC	920	81-02-26	0945	1250		22.5	
CN-	147	145	9W	31	294813093191701	11204010	260	81-02-27	1315	1630	7.9	23.0	
CN-	148	155	9W	7	294651093191301	1120HCTU	270	81-03-02	1100	1580	7.8	22.5	150
CN-	150	125	8₩	16	300058093112102	112CHCT	280	81-03-06	1020	643	7.7	20.5	0
CN-	151	155	9₩	2	294712093195001	1120HCTU	280	81-03-02	1245	1560	7.4	21.0	10
						1	BERIA PAR	ISH					
1-	93	125	7F	5	300035091443301	112CHCTU	585	81-03-11	1430	1050		22.0	
						JE	EFFERSON P	ARISH					
JF-	31	125	9F	37	295908090152801	112GZN0	720	81-08-19	1100	2000			
JF-	65	125	9E	37	295906090152701	112GZN0	698	81-08-19	1050	812			
JF-	66	125	9E	37	295907090152901	112GZN0	697	81-08-19	1115	2070			
JF-	141	135	SSE	26	295525090111701	112GZN0	740 740	80-12-04 81-08-25	1150 1400	1510 1540		25.0	
						112GZN0	ORLEANS PA		1400	1540	-		-
OR-	120	125	125		295738090021001		736	81-08-20	1200	1820			
	170			42	300026089561101		645	81-08-20	1030	2150		20	22
	171		13E		300030089561801		645	81-08-20	1045	2690		-	
	179			19	300959089441901			80-12-11	1200	622			
OIL.	1,,,	103			300 93 700 74 41 90 1		BERNARD			522			
SR-	10	135	12F	12	295646090000401		791	81-08-20	1145	2910			
	35			7	295402089534201			81-08-26	1400	9420			
		300						RISH					
SM-	57U	145	8F	27	294749091402301	112CHCTU	638	81-03-11	1215	1170		24.0	
SM-	57L	145	8E	27	294749091402302	112CHCTU	738	81-03-11	1150	5420		23.5	
	-		- 500				ERMILION P						
VE-	625	135	3E	49	295447092080101	112CHCTU	97	81-07-31		452	-		
	626	135	3E	54	295315092075001	11204070	66	81-07-31		1030			

		I	OCAL ENT- I- IER			DATE OF SAMPLE	HARD- NESS (MG/L AS CACO3)	HARD- NESS: NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM+ DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE. DIS- SOLVED (MG/L AS CL)
								CAMERON	PARISHCo	ontinued					
(CN-	800	125	3₩	24	81-02-24	220								240
(CN-	80L	125	3W	24	81-02-24	200						44		270
(CN-	810	125	3W	11	81-03-09	300								360
(ON-	81L	125	3W	11	81-03-09	320								420
(CN-	83	145	9W	31	81-02-27	150		30	19	390				460
(N-	84	145	9W	32	81-03-02	130		22	19	300				320
(CN-	85	155	9W	12	81-02-27	120		23	15	310				310
(CN-	860	125	12W	13	81-02-02	75								220
(N-	86L	125	12W	13	81-02-02	68		-44						440
(CN-	90	135	7 W	4	81-03-05	84								160
(CN-	92	125	7 W	12	81-03-05	220								410
(CN-	93	155	9W	16	81-03-05	110								270
(N-	121	125	8 W	18	81-03-06	150								230
(CN-	122	125	10W	12	81-02-26	30		••		**				240
(CN-	147	145	9 W	31	81-02-27	95		24	8.5	330				340
(CN-	148	155	9W	7	81-03-02	70		24	2.4	310				350
(N-	150	125	8₩	16	81-03-06	81	0	20	7.5	120	2.0	273	1.8	38
(N-	151	155	9W	2	81-03-02	110	0	24	13	300	5.0	322	2.8	300
								IBERIA	PARISHCo	ontinued					
	I-	93	125	7E	5	81-03-11	220		59	18					140
								JEFFERSON	PARISHC	Continued					
	JF-	31	125	9E	37	81-08-19	61								490
	JF-	65	125	9E	37	81-08-19	16								120
	JF-	66	125	9E	37	81-08-19	66								520
ç	JF-	141	135	22F	26	80-12-04 81-08-25	32 29		- 22	-:				===	290 290
								ORLEANS	PARISHC	ontinued					
0	R-	130	125	12E		81-08-20	39							:	330
		170		13E		81-08-20	38								450
		171		13E		81-08-20	52								640
C	R-	179	105	15E	19	80-12-11	1								4.0
							SI	. BERNARI	PARISH	Continued					
9	SR-	10	135	12E	12	81-08-20	54								680
9	SR-	35	135	13E	7	81-08-26	280		-	(44	4				2900
								ST. MARY	PARISHC	ontinued					
5	M=	570	145	8E	27	81-03-11	310		74	30					190
9	M-	57L	145	8E	27	81-03-11	580		140	55					1600
								VERMILION	PARISH	Continued					
V	/E-	625	135	3F	49	81-07-31	180		51	14					8.2
	/F	626	135	3E	54	81-07-31	250		70	17					160

					CHEMI	CAL ANALY	SES, OCT	OBER 1980	TO SEPTE	MBEK 1981				
	1 D	OCAL ENT- I- IER			DATE OF SAMPLE	FLUO- RIDE: DIS- SOLVED (MG/L AS F)	BROMIDE DIS- SOLVED (MG/L AS BR)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN; NITRATE TOTAL (MG/L AS NO3)	IRON. DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	
						CAN	MERON PAR	ISHCont	inued					
CN-	800	125	3 W	24	81-02-24		.3							
CN-	80L	125	3₩	24	81-02-24		.2							
CN-	810	125	3W	11	81-03-09		.5							
CN-	81L	125	3W	11	81-03-09		.5							
CN-	83	145	9W	31	81-02-27		•5					230	78	
CN-	84	145	9 W	32	81-03-02		.4					190	90	
CN-	85	155	9W	12	81-02-27		.4					210	62	
CN-	BAU	125	12W	13	81-02-02		.3							
CN-	86L	125	12W	13	81-02-02		.5							
CN-	90	135	7 W	4	81-03-05		•2							
CN-	92	125	7 W	12	81-03-05		.7							
CN-	93	155	9W	16	81-03-05		.3							
CN-	121	125	8W	18	81-03-06		.3							
CN-	122	125	10W	12	81-02-26		.3							
CN-	147	145	9W	31	81-02-27		.3					170	60	
CN-	148	155	9W	7	81-03-02		.3					160	70	
CN-	150	125	8W	16	81-03-06	.2		27	380	381	.16	120	79	
CN-	151	155	9 W	2	81-03-02	.2	.4	29	866	867	.34	150	49	
						I	BERIA PAR	ISHCont	inued					
I -	93	125	7E	5	81-03-11		.1							
						JEF	FERSON PA	RISHCon	tinued					
JF-	31	125	9E.	37	81-08-19									
JF-	65	125	9E	37	81-08-19									
JF-	66	125	9E	37	81-08-19									
JF-	141	135	SSE	26	80-12-04 81-08-25				- ::		- ::	==	- ::	
					01-00-25	OR	IFANS PAR	ISHCont	inued					
na-	130	125	12E		81-08-20									
	170		13E		81-08-20									
	171		136		81-08-20								- 4	
	179		15E		80-12-11									
011	1,,,					ST. B	ERNARD PA	ARISHCon	ntinued					
SR-	10	135	12E	12	81-08-20									
SR-			13E		81-08-26									
						ST	MARY PAI	RISHCont	tinued					
SM-	570	145	8F	27	81-03-11									
SM-			8E		81-03-11		1.6		-					
3	-10					VER		ARISH Cor	ntinued					
VE-	625	139	3F	49	81-07-31									
	626			54	81-07-31									

10	OCAL DENT- I- TFR			STATION NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL. TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)
					VERMILI	ON PARISH	Continued					
VE- 629U	145	1E	23	294825092202004	112CHCTU	457	81-03-09	1305	1050		21.5	
VE- 629L	145	1F	23	294825092202005	112CHCTU	487	81-03-09	1350	1290		22.0	
VE- 630U	145	16	10	295031092203202	112CHCTU	498	81-03-09	1520	1060		22.0	
VE- 630L	145	1E	10	295031092203203	112CHCTU	528	81-03-09	1550	1950		22.0	
VE- 637U	135	3E	15	295345092100702	1120HCTU	198	81-03-10	1150	1110		22.0	
VE- 637L	135	3E.	15	295345092100703	112CHCTU	243	81-03-10	1115	2670		21.5	
VE- 646	135	3E	65	295204092091201	112CHCTU	65	81-07-31		2060			
VE- 647	145	3E	3	295058092091401	112CHCTU	76	81-07-31		2720			
VE- 649	135	3E	44	295516092082501	112CHCTU	350	81-03-10	1415	1580		22.0	
VE- 725	115	15	25	300315092190901	112CHCTU 112CHCTU	300 300	81-04-21 81-05-26		946 938	7.4 7.6		==

	10	OCAL DENT- I- TER			DATE OF SAMPLE	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM. DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
							VERMILION	N PARISH-	Continue	1				
VE-	629U	145	1E	23	81-03-09	340		76	36					160
VE-	629L	145	16	23	81-03-09	340		83	33			**		240
VE-	630U	145	15	10	81-03-09	260		62	27					130
VE-	630L	145	1F	10	81-03-09	440		100	45					420
VF	637U	135	3E	15	81-03-10	300		84	22					170
VE-	637L	135	3E	15	81-03-10	550		160	37			44		670
VE-	646	135	3E	65	81-07-31	470		120	39					500
VE-	647	145	3E	3	81-07-31	590		160	46					710
VE-	649	135	3E	44	81-03-10	370		110	25					320
VF-	725	115	16	25	81-04-21 81-05-26	170 170	=	44	15 15	140 140	==	340 341		100

	In	OCAL ENT- I- IER			DATE OF SAMPLE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	BROMIDE DIS- SOLVED (MG/L AS BR)	SILICA+ DIS- SOLVED (MG/L AS SIO2)	SOLINS. RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS. SUM OF CONSTI- TUENTS. DIS- SOLVED (MG/L)	NITRO- GEN+ NITRATE TOTAL (MG/L AS NO3)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
						VE	RMILION P	ARISHCo	ntinued				
VE-	6290	145	1E	23	81-03-09		.2						
VF.	629L	145	1E	23	81-03-09		.3						
VE-	6300	145	1E	10	81-03-09		.2		>				
VE-	630L	145	1E	10	81-03-09		•5						
VE-	637U	135	3E	15	81-03-10		.2						
VE-	637L	135	3E	15	81-03-10		.7					:	
VE-	646	135	3E	65	81-07-31								
VE-	647	145	3E	3	81-07-31								
VE-	649	135	3E	44	81-03-10		.3						
VE-	725	115	1E	25	81-04-21 81-05-26	- ::			==		==	0	61

 $[\]underline{1}$ / Geologic unit (aquifer):

¹¹²CHCT-Chicot aquifer, Pleistocene age. 112CHCTU-Chicot aquifer, upper sand unit, Pleistocene age. 112GZNO-Gonzales-New Orleans aquifer, Pleistocene age. 11205LC-"500-foot" sand of Lake Charles area, Pleistocene age. 12203FP-Zone 3 Florida Parishes and Pointe Coupee Parish, Miocene age.

INDEX

	PAGE		PAGE
ACCURACY OF FIELD DATA	11	DISCHAGE, INSTANTANEOUS, DEFINITION OF	4
ACRE-FOOT, DEFINITION OF	3	MEAN, DEFINITION OF	4
AMELIA, BAYOU PENCHANT AT BAYOU CHENE NEAR	25-126	DISSOLVED, DEFINITION OF	4
ANALYSIS OF WATER-QUALITY SAMPLES COLLECTED AT MISCELLANEOUS SITES	76-194	DIVERSITY INDEX, DEFINITION OF	9
AQUIFER, DEFINITION OF	3	DRAINAGE AREA, DEFINITION OF	5
ARTESIAN, DEFINITION OF	3	DRAINAGE BASIN, DEFINITION OF	5
		DULAC, BAYOU GRAND CAILLOU NEAR	89-90
BACTERIA, DEFINITION OF	3	BAYOU PETIT CAILLOU NEAR BOUDREAUX CANAL, NEAR	87-88
FECAL STREPTOCOCCAL, DEFINITION OF	3	ELUTRIATE, DEFINITION OF	5
TOTAL COLIFORM, DEFINITION OF	3	EMPIRE, BAYOU LONG NEAR	62-63
BALDWIN, CHARENTON DRAINAGE CANAL NEAR	31-132	EXPLANATION OF GROUND-WATER-LEVEL RECORDS	13
BARATARIA BAY WATERWAY, NEAR GRAND ISLE	70-71	EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS	10
NEAR LAFITTE	66-67 68-69	EXPLANATION OF WATER-QUALITY RECORDS	12
BARATARIA, LAKE SALVADOR NEAR	64-65	FORKED ISLAND, FRESHWATER CANAL ABOVE FRESHWATER	
BAYOU BOEUF AT AMELIA	182	BAYOU LOCK (NORTH), NEAR12	49-150
BAYOU GRAND CAILLOU NEAR DULAC	89-90	SCHOONER BAYOU EAST OF CONTROL STRUCTURE, NEAR 14	
BAYOU LAFOURCHE, AT GALLIANO	80-81	SCHOONER BAYOU WEST OF CONTROL STRUCTURE, NEAR1	
AT LAROSEAT THIBODAUX	77-79 72	WHITE LAKE (EAST SIDE) WEST SCHOONER BAYOU NEAR	
AT VALENTINE	76	FRESHWATER CANAL ABOVE FRESHWATER BAYOU LOCK	
BAYOU LALOUTRE AT ALLUVIAL CITY AT YCLOSKEY	54-55	(NORTH) NEAR FORKED ISLAND	47-150
BAYOU LONG NEAR EMPIRE	62-63		-
BAYOU PENCHANT AT BAYOU CHENE NEAR AMELIA		GAGE HEIGHT, DEFINITION OF	5
BAYOU PETIT CAILLOU NEAR BOUDREAUX CANAL NEAR DULAC . BAYOU TECHE, AT CHARENTON		GALLIANO, BAYOU LAFOURCHE AT	200 00 0000
AT VERDUNVILLE	177	GEORGIA, LAKE VERRET NEAR	
NEAR FRANKLIN	176	GIBBSTOWN, INTRACOASTAL WATERWAY AT	62-163
NEAR PATTERSON	178	GRAND CHENIER, GRAND LAKE NORTHEAST OF	E7 150
BAYOU TERREBONNE, NEAR BOURG	85-86 3	CATFISH POINT CONTROL STRUCTURE NEAR	
BELLE CHASSE, MISSISSIPPI RIVER AT	25-31	MERMENTAU RIVER NORTH OF CATFISH POINT	/0-1/1
BIOCHEMICAL OXYGEN DEMAND, DEFINITION OF	3	CONTROL STRUCTURE, NEAR10	
BIOMASS, DEFINITION OF	3	MERMENTAU RIVER SOUTH OF CONTROL STRUCTURE, NEAR 1	
ASH MASS, DEFINITION OF	3	GRAND ISLE, BARATARIA BAY WATERWAY NEARGRAND LAKE NORTHEAST OF CATFISH POINT CONTROL	70-71
DRY MASS, DEFINITION OF	3	STRUCTURE NEAR GRAND CHENIER	57-158
WET MASS, DEFINITION OF	3	GREEN ALGAE, DEFINITION OF	6
BLACK BAY NEAR MOUTH OF RIVER AUX CHENES		GROUND-WATER RECORDS (BY PARISHES):	
NEAR BOHEMIA	60-61	WATER LEVELS:	196
BLUE-GREEN ALGAE, DEFINITION OFBOHEMIA, BLACK BAY NEAR MOUTH OF	6	ASSUMPTION	
RIVER AUX CHENES NEAR	60-61	IBERIA	201
BOTTOM MATERIAL, DEFINITION OF	4	JEFFERSON	202
RECOVERABLE FROM, DEFINITION OF	4	ORLEANS20	
TOTAL IN, DEFINITION OF	4 85-86	ST. MARY 20 VERMILION 20	
	38-39	WATER-QUALITY:	05 203
		CAMERON2	
CALCASIEU RIVER BASIN, GAGING STATIONS IN		IBERIA	
CALCASIEU LAKE NEAR HACKBERRY		ORLEANS	
CALUMET, WAX LAKE OUTLET AT		ST. BARNARD2	
CAMERON, CALCASIEU PASS AT ST. JOHN ISLAND NEAR 1		ST. MARY2	
CELLS/VOLUME, DEFINITION OF	4	VERMILION2	11-214
CFS-DAY, DEFINITION OF	4	HACKBERRY, CALCASIEU LAKE AT	70 170
CHICOT PASS AT MYETTE POINT NEAR		HARDNESS, DEFINITION OF	5
CHARENTON DRAINAGE CANAL NEAR BALDWIN		HAYES, GULF AND INTRACOASTAL WATERWAY AT	
CHEF MENTEUR PASS NEAR LAKE BORGNE AT CHEF MENTEUR	50-51	LAKE MISERE NEAR1	
CHEF MENTEUR, CHEF MENTEUR PASS NEAR LAKE BORGNE AT .	50-51	HENRY, VERMILION RIVER NEAR	
LAKE PONTCHARTRAIN AT CHEF MENTEUR PASS NEAR CHEMICAL OXYGEN DEMAND, DEFINITION OF	44-45	VERMILION BAY AT REDFISH POINT NEAR	36-13/
CHICOT PASS AT MYETTE POINT NEAR CHARENTON		AT MILE 20.0, NEAR GARDNER ISLAND, NEAR	58-59
CHLOROPHYLL, DEFINITION OF	4	HOPEDALE, MISSISSIPPI RIVER GULF OUTLET,	
COLLECTION AND COMPUTATION OF SURFACE-WATER DATA	10	AT MILE -5.0 NEAR	56-57
COLLECTION AND EXAMINATION OF WATER-QUALITY DATA	12 13	HOUMA, HOUMA NAVIGATION CANAL AT	91-94 82-84
COLOR UNIT, DEFINITION OF	4	HOUMA NAVIGATION CANAL, AT CROZIER	95-96
COMPANY CANAL AT LOCKPORT	73-75	AT HOUMA	91-94
CONTENTS, DEFINITION OF	4	HYDROLOGIC BENCH-MARK STATION. DEFINITION OF	9
CONTROL, DEFINITION OF	4	HYDROLOGIC CONDITIONS, SUMMARY OF	2
CONTROL STRUCTURE, DEFINITION OF	4	HYDROLOGIC UNIT, DEFINITION OF	5
CROZIER, HOUMA NAVIGATION CANAL AT	95-96	INDEX2	17-218
CUBIC FEET PER SECOND, DEFINITION OF	4	INSECTICIDES, DEFINITION OF	6
CUBIC FEET PER SQUARE MILE, DEFINITION OF	4	INTRACOASTAL CITY, INTRACOASTAL WATERWAY	. 1 1/-
DEFINITION OF TERMS	3-8	AT VERMILION LOCK (EAST), NEAR	41-143
DIATOMS, DEFINITION OF	6	(WEST), NEAR	44-146
DISCHARGE, DEFINITION OF	4	INTRACOASTAL WATERWAY, AT GIBBSTOWN1	

rage	rage
INTRACOASTAL WATERWAY, AT HOUMA 82-84 AT LAKE MISERE, NEAR HAYES 164-165 AT NOPSI PLANT NEAR PARIS ROAD, AT NEW ORLEANS. 48-49 AT VERMILION LOCK (EAST), NEAR INTRACOASTAL CITY 141-143 AT VERMILION LOCK (WEST), NEAR INTRACOASTAL CITY 144-146 NEAR PATTERSON 179 INTRODUCTION 1	PIERRE PART, LAKE VERRET NEAR
LAFITTE, BAYOU BARATARIA AT 64-65 BARATARIA BAY WATERWAY NEAR 66-67 LAKE DE CADE NEAR THERIOT 97-98 LAKE SALVADOR NEAR BARATARIA 68-69 LAKE PALOURDE AT MORGAN CITY 123-124	BAPTIST COLLETTE (MAIN PASS) AT BRETON SOUND, 6.9 MILES NORTHEAST OF VENICE
LAKE PONCHARTRAIN, AT CHEF MENTEUR PASS, NEAR CHEF MENTEUR	NORTHEAST OF VENICE
AT THE CAMBE AT THE VALUE AT TH	RADIOCHEMICAL PROGRAM, DEFINITION OF
LAROSE, BAYOU LAFOURCHE AT	SCHOONER BAYOU, EAST OF CONTROL STRUCTURE NEAR FORKED ISLAND
AT EUGENE ISLAND, NEAR MORGAN CITY	DEFINITION OF
MERMENTAU RIVER BASIN, GAGING STATION RECORDS IN151-171 MERMENTAU RIVER, AT LACASSINE REFUGE, NEAR LOWRY159-161 AT UPPER MUD LAKE, NEAR GRAND CHENIER	SUSPENDED-SEDIMENT DISCHARGE, DEFINITION OF
NORTH OF CATFISH POINT CONTROL STRUCTURE, NEAR GRAND CHENIER	SLIDELL, LAKE PONTCHARTRAIN AT WEST RIGOLETTS, NEAR 42-43 SOLUTES, DEFINITION OF 7 SPECIAL NETWORKS AND PROGRAMS 9
MICROGRAMS PER GRAM, DEFINITION OF	SPECIFIC CONDUCTANCE, DEFINITION OF
MILLICRAMS PER LITER, DEFINITION OF 5 MISSISSIPPI MAIN STEM AND LOWER MISSISSIPPI RIVER BASIN, GAGING STATION RECORDS IN 19-35 WATER-QUALITY MISCELLANEOUS SITES IN 176-182	STREAMFLOW, DEFINITION OF
WAIST-QUALITY HISCELLANEOUS SILES IN 10-152	NATURAL, DEFINITION OF SUMMARY OF HYDROLOGIC CONDITIONS SURFACE AREA, DEFINITION OF SURFICIAL BED MATERIAL, DEFINITION OF SUSPENDED, DEFINITION OF 7
AT VENICE	SUSPENDED, RECOVERABLE, DEFINITION OF
NEAR VIOLET 52-53 GULF OUTLET AT MILE 20.0, NEAR NEAR HOPEDALE 58-59 GULF OUTLET AT MILE -5.0, NEAR HOPEDALE 56-57 MORGAN CITY, LOWER ATCHAFALAYA RIVER	THERIOT, LAKE DE CADE NEAR 97-98 THIBODAUX, BAYOU LAFOURCHE AT 73 TIME-WEIGHTED AVERAGE, DEFINITION OF 8 TONS PER ACRE-FOOT, DEFINITION OF 8
AT EUGENE ISLAND, NEAR	TONS PER DAY, DEFINITION OF 8 TOTAL, DEFINITION OF 8 TOTAL LOAD, DEFINITION OF 8 TOTAL RECOVERABLE, DEFINITION OF 8
NATIONAL GEODETIC VERTICAL DATUM OF 1929, DEFINITION OF	TRITIUM NETWORK, DEFINITION OF
DEFINITION OF	VENICE, MISSISSIPPI RIVER AT
LAKE PONTCHARTRAIN AT GNO EXPRESSWAY BRIDGE, NEAR . 40-41 LAKE PONTCHARTRAIN (IHN CANAL) AT	VERMILION RIVER, AT PERRY 134 NEAR HENRY 134-135 VIOLET, MISSISSIPPI RIVER GULF OUTLET AT MILE 52.8, AT BAYOU DUPRE NEAR 52-53
ORDER, DOWNSTREAM, AND STATION NUMBERS	WATER ANALYSIS, DEFINITION OF
ORGANISM COUNT/VOLUME, DEFINITION OF 5 TOTAL ORGANISM COUNT, DEFINITION OF 5 OTHER DATA AVAILABLE 12	WAX LAKE OUTLET AT CALUMET
PARTIAL-RECORD STATION, DEFINITION OF	FORKED ISLAND
PARTICLE-SIZE, DEFINITION OF 5 PERCENT COMPOSITION, DEFINITION OF 6 PERRY, VERMILION RIVER AT 133 PERTICIPE DEFINITION OF 6	FORKED ISLAND 155-156 WRD, DEFINITION OF 8 WSP, DEFINITION OF 8
PESTICIDE, DEFINITION OF	YCLOSKEY, BAYOU LALOUTRE AT ALLUVIAL CITY AT 54-55
PICOCURIE, DEFINITION OF 6	ZOOPLANKTON, DEFINITION OF

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	Ву	To obtain SI units
	Length	
inches (in)	2.54x10 ¹	millimeters (mm)
	2.54x10 ⁻²	meters (m)
feet (ft)	3.048x10 ⁻¹	meters (m)
miles (mi)	1.609x10°	kilometers (km)
	Area	
acres	4.047x10 ³	square meters (m ²)
	4.047x10 ⁻¹	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590x10°	square kilometers (km²)
	Volume	
gallons (gal)	3.785x10°	liters (L)
	3.785x10°	cubic decimeters (dm ³)
	3.785x10 ⁻³	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm³)
cubic feet (ft ³)	2.832×10^{1}	cubic decimeters (dm ³)
	2.832x10 ⁻²	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm³)
	1.233x10 ⁻⁶	cubic kilometers (km³)
	Flow	
cubic feet per second (ft ³ /s)	2.832x101	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm ³ /s)
	2.832x10 ⁻²	cubic meters per second (m³/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309x10 ⁻⁵	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm ³ /s)
	4.381x10 ⁻²	cubic meters per second (m ³ /s)
	Mass	
tons (short)	9.072x10 ⁻¹	megagrams (Mg) or metric tons

U.S. DEPARTMENT OF THE INTERIOR Geological Survey P.O. Box 66492 Baton Rouge, LA 70896

OFFICIAL BUSINESS PENALTY FOR PRIVATE USE \$300 SPECIAL 4TH CLASS BOOK RATE

