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# Water Resources Data Louisiana

## Water Year 1981

### Volume 2. Southern Louisiana



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT LA-81-2  
Prepared in cooperation with the Louisiana  
Department of Transportation and Development  
and with other State and Federal agencies



# CALENDAR FOR WATER YEAR 1981

1980

## OCTOBER

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## NOVEMBER

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## DECEMBER

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1981

## JANUARY

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## JULY

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## SEPTEMBER

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# Water Resources Data Louisiana

## Water Year 1981

### Volume 2. Southern Louisiana



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT LA-81-2

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

1981

## 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



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## 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-81-2." 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 ft<sup>3</sup>/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 ft<sup>3</sup>/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 ft<sup>3</sup>/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 ft<sup>3</sup>/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<sup>3</sup>/s; the previous maximum for June was 3,180 ft<sup>3</sup>/s. Also, Bayou Toro near Toro had a new maximum daily flow of 3,570 ft<sup>3</sup>/s, compared to the previous maximum of 2,970 ft<sup>3</sup>/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 ft<sup>3</sup>/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 aquifers. 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 aquifers showed normal seasonal fluctuations. In some wells screened in the Red River alluvial aquifer 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 aquifers 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-127B, key observation well in the terrace aquifer, 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 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 vicinity 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.

Bacteria 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.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. 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 ± 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°C ± 0.2°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 ± 1.0°C on M-enterococcus medium (STORET CODE 31679), or on KF agar (STORET CODE 31673). Their concentrations are expressed as number of colonies per 100 mL of sample.

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.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit 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/m<sup>3</sup> (grams per cubic meter), and periphyton and benthic organisms in g/m<sup>2</sup> (grams per square meter).

Dry mass 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."

Cells/volume refers to the number of cells on any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

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.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

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.

Contents 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.

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 (FT<sup>3</sup>/S, ft<sup>3</sup>/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

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.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (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.

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.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

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

Where  $n_i$  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.

Drainage basin 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.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

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

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 ( $\text{CaCO}_3$ ).

Hydrologic unit 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.

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

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.

Milligrams per liter (MG/L, mg/L) is a unit expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

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.

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.

Particle-size 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 (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.

Percent composition 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-1,4:5,8-dimethanonaphthalene.  
Chlordane 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan.  
DDD (combination of ortho and para isomers)  
 o,p'-DDD 1,1-dichloro-2-(o-chlorophenyl)-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.  
Methyl trithion phosphorodithioic acid S-[(4-chlorophenyl)thio]-methyl 0,0-dimethyl ester.  
Methoxychlor 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)ethane.  
Mirex 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-1,3,4-metheno-1H-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.

Picocurie (PC, pCi) is one trillionth ( $1 \times 10^{-12}$ ) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields  $3.7 \times 10^{10}$  radioactive disintegrations per second. 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.

Green algae have chlorophyll pigments similar in color to those of higher green plants. 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.

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

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene 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 occurrence 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.

Suspended sediment 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.

Suspended-sediment load is the quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

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.

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.

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 than 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) dissolved and (2) 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.

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.

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.)

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 procedures 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 |

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.

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).

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 indentation in a list of stations in the front of the report. Each indentation represents one rank. This downstream order and system of indentation 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.

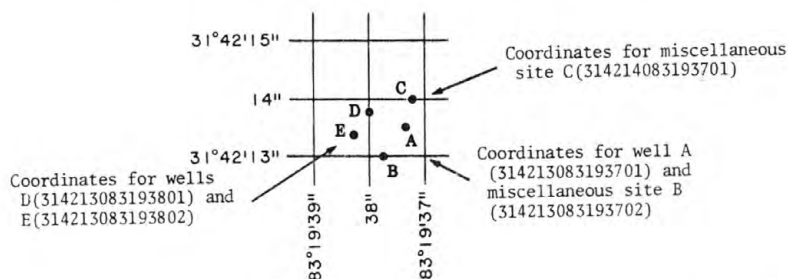


Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude)

## 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.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network 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 mileage, 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 "MAX" and "MIN" give the maximum and minimum daily mean discharges, respectively, for the month. Discharge for the month also may be 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 equipped 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 minimum 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 equipped 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 significant 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.

## PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

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.
- 1-D2. *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.
- 2-D1. *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.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1968. 22 pages.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. *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-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. *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.
- 5-A2. *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.
- 5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P. E. Greenson, T. A. Ehlike, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, 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-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 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.



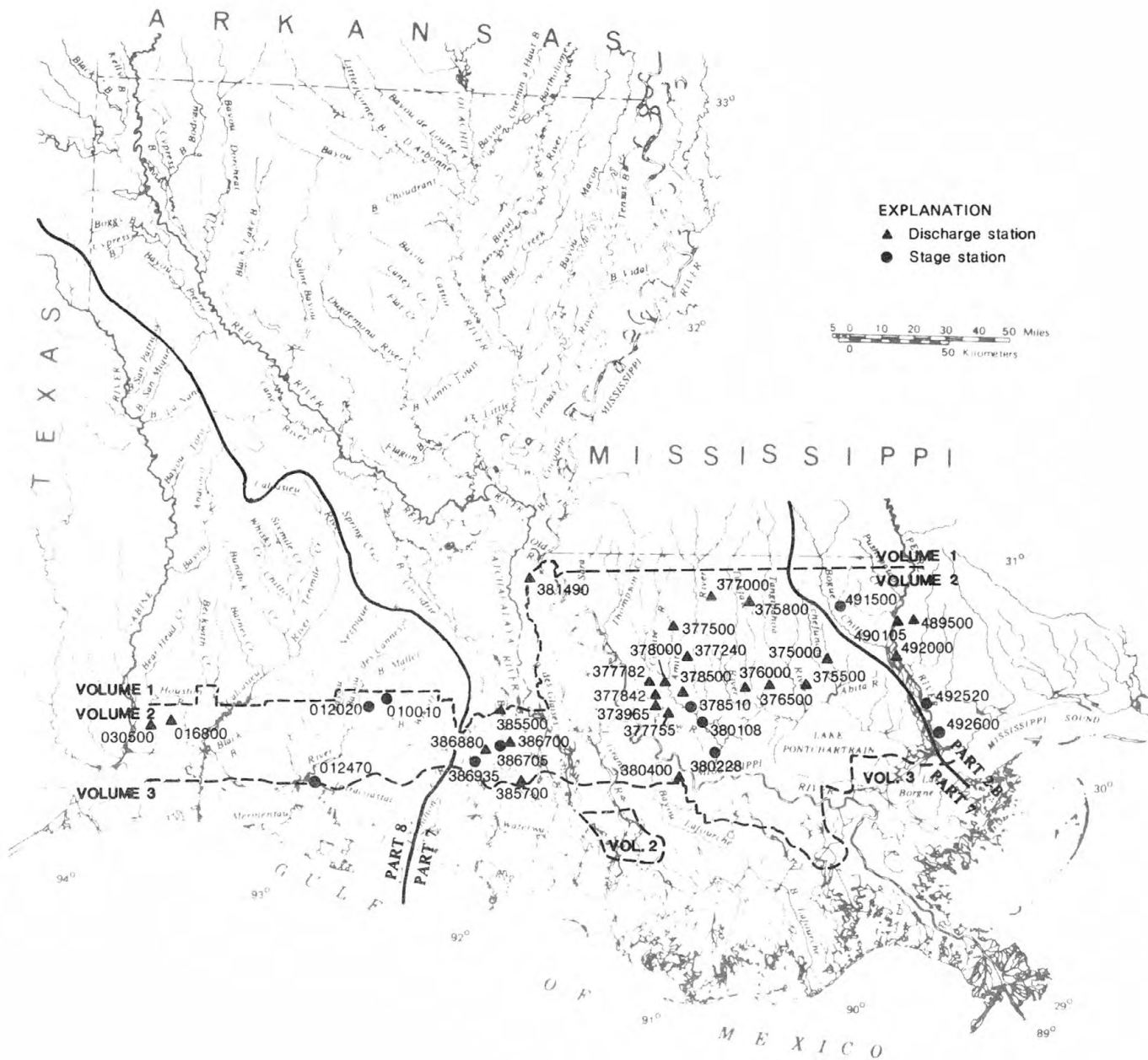
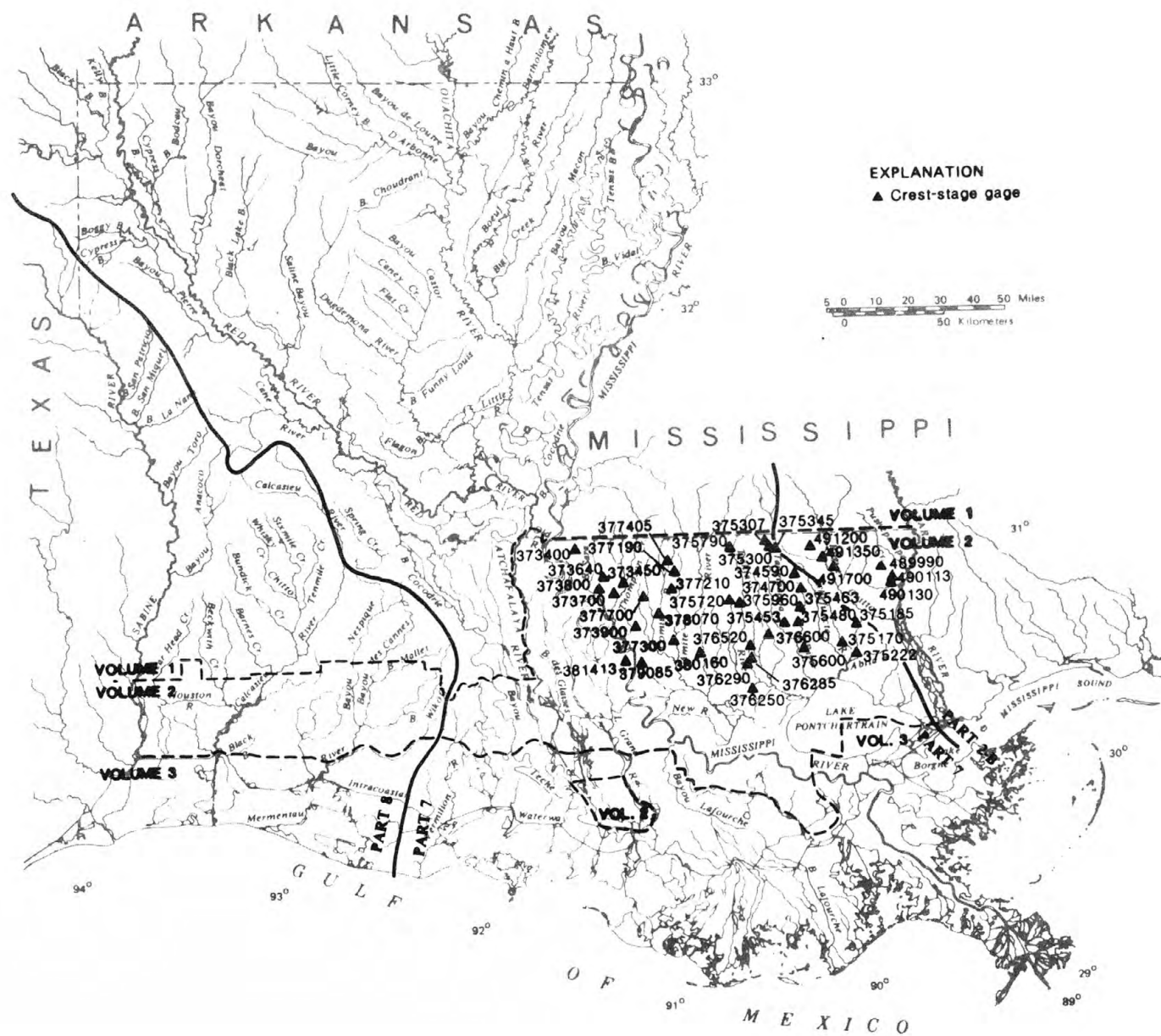


Figure 2.--Location of continuous gaging stations.



**Figure 3.--Location of crest-stage stations.**

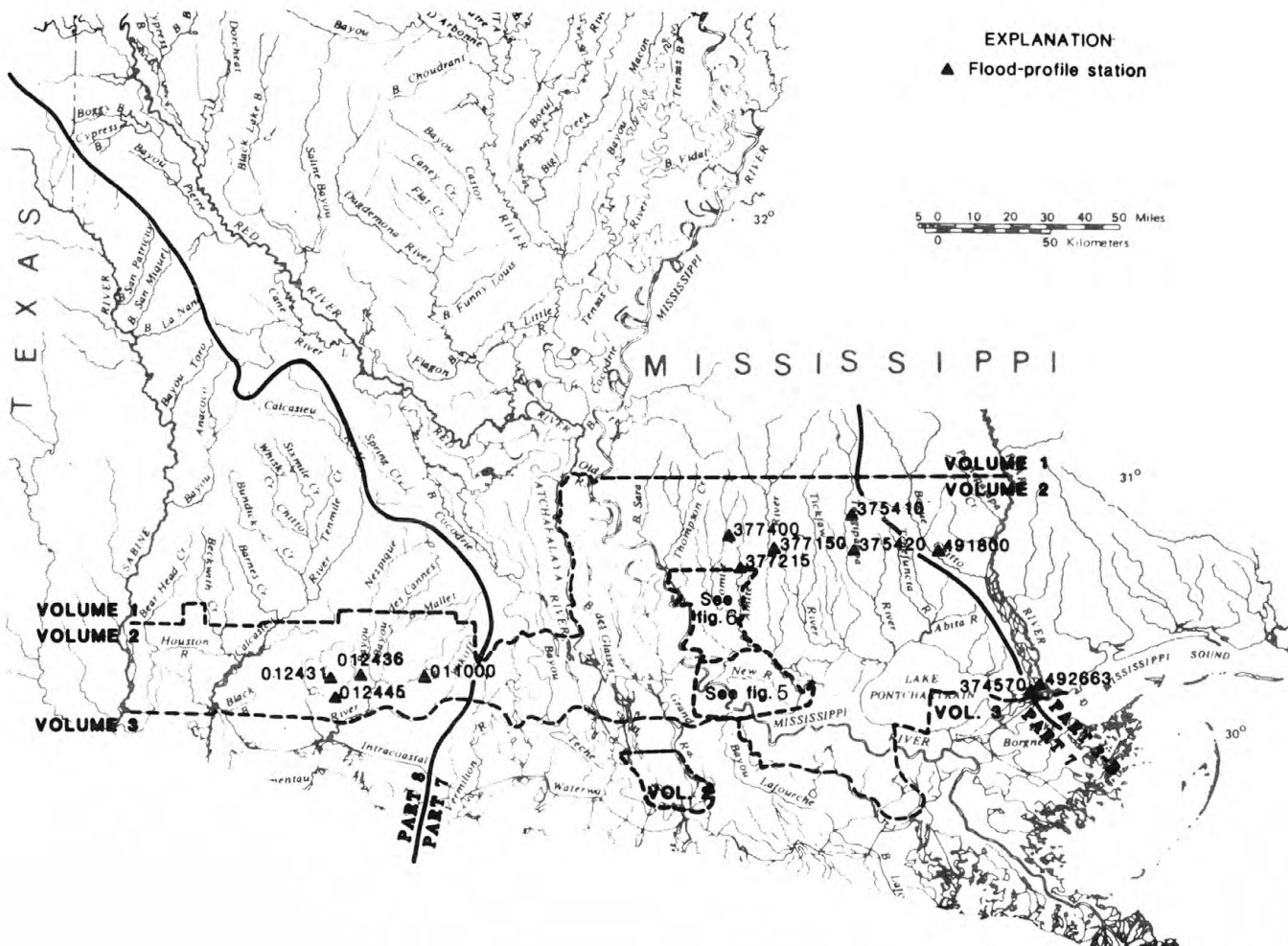


Figure 4.--Location of flood-profile stations.





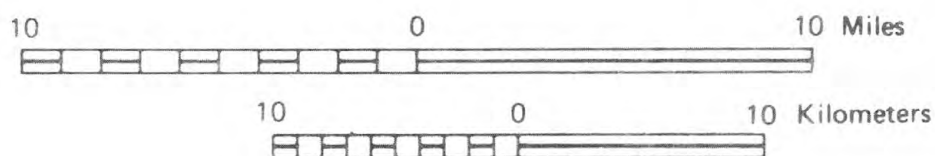
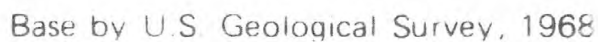
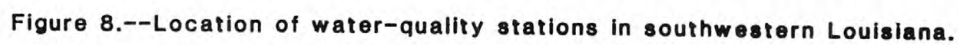


Figure 6.--Location of flood-profile stations, East Baton Rouge Parish.



Figure 7.--Location of water-quality stations in southeastern Louisiana.







## HYDROLOGIC-DATA STATION RECORDS

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## PEARL RIVER BASIN

02489500 PEARL RIVER NEAR BOGALUSA, LA  
(National stream-quality accounting network station)

LOCATION.--Lat 30°47'35", long 89°49'15", on line between secs. 17 and 18, T.3 S., R.14 E., Washington Parish, Hydrologic Unit 03180004, near right bank on downstream side of bridge on State Highway 10, 2.0 mi (3.2 km) east of Bogalusa, and 2.0 mi (3.2 km) upstream from Bogue Lusa Creek.

DRAINAGE AREA.--6,573 mi<sup>2</sup> (17,024 km<sup>2</sup>), revised.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 55.00 ft (16.764 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to July 29, 1954, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good. Records of dissolved oxygen and water temperature for the 1981 water year are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--43 years, 9,671 ft<sup>3</sup>/s (273.9 m<sup>3</sup>/s), 19.98 in/yr (507 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 129,000 ft<sup>3</sup>/s (3,650 m<sup>3</sup>/s) Apr. 24, 1979, gage height, 23.23 ft (7.081 m); minimum, 1,020 ft<sup>3</sup>/s (28.9 m<sup>3</sup>/s) Oct. 29 to Nov. 1, 1963; minimum gage height, 4.84 ft (1.475 m) Oct. 30, 31, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 11, 1938, reached a stage of 21.0 ft (6.40 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27,800 ft<sup>3</sup>/s (787 m<sup>3</sup>/s) Apr. 11, 12, gage height, 18.96 ft (5.779 m); minimum discharge, 1,620 ft<sup>3</sup>/s (45.9 m<sup>3</sup>/s) Oct. 17; minimum gage height, 7.04 ft (2.146 m) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY   | OCT   | NOV    | DEC    | JAN   | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG   | SEP   |
|-------|-------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|-------|
| 1     | 2870  | 2940   | 10700  | 2840  | 3560   | 5110   | 16400  | 3160   | 4200   | 2570   | 2190  | 1880  |
| 2     | 3260  | 2840   | 10000  | 2820  | 3930   | 4840   | 18000  | 3050   | 3640   | 2600   | 2060  | 2290  |
| 3     | 3070  | 3090   | 9360   | 2800  | 4940   | 4550   | 20100  | 2940   | 4250   | 3680   | 2000  | 2380  |
| 4     | 2740  | 3210   | 8740   | 2780  | 5210   | 4360   | 21100  | 2860   | 4650   | 10300  | 2090  | 2840  |
| 5     | 2490  | 3180   | 7940   | 2770  | 6450   | 5180   | 21500  | 2840   | 4520   | 16600  | 2130  | 2980  |
| 6     | 2350  | 3160   | 6870   | 2760  | 8280   | 10300  | 22000  | 2860   | 4290   | 18200  | 2020  | 2760  |
| 7     | 2250  | 3140   | 6020   | 2820  | 10100  | 16400  | 22500  | 2870   | 4090   | 13900  | 1930  | 2530  |
| 8     | 1810  | 3130   | 5550   | 3020  | 10300  | 19600  | 24000  | 2810   | 3900   | 9050   | 2020  | 2510  |
| 9     | 1780  | 3130   | 5220   | 3180  | 10200  | 20700  | 25500  | 2750   | 3850   | 6160   | 2140  | 2410  |
| 10    | 1760  | 3120   | 5300   | 3210  | 13100  | 19900  | 26500  | 2740   | 3730   | 4650   | 2030  | 2230  |
| 11    | 1740  | 3080   | 6860   | 3420  | 21300  | 18300  | 27600  | 2730   | 3650   | 4160   | 1910  | 2060  |
| 12    | 1720  | 3030   | 7490   | 3550  | 18300  | 17000  | 27800  | 2680   | 3820   | 4450   | 1870  | 1910  |
| 13    | 1690  | 3000   | 6730   | 3530  | 14100  | 16000  | 27700  | 2930   | 3710   | 4430   | 1900  | 1820  |
| 14    | 1660  | 2980   | 5780   | 3450  | 11700  | 15200  | 27100  | 3230   | 3950   | 3700   | 1900  | 1780  |
| 15    | 1640  | 2990   | 5220   | 3400  | 10300  | 13900  | 26100  | 3070   | 3830   | 3270   | 1920  | 1880  |
| 16    | 1630  | 3070   | 4920   | 3370  | 9860   | 12100  | 24400  | 2900   | 3730   | 2950   | 1940  | 2180  |
| 17    | 1630  | 3100   | 4840   | 3320  | 10400  | 9840   | 20000  | 2800   | 3700   | 2710   | 2110  | 2390  |
| 18    | 1690  | 4150   | 4790   | 3150  | 9860   | 7870   | 14400  | 2740   | 3580   | 2550   | 2110  | 2430  |
| 19    | 2190  | 5600   | 4560   | 2960  | 8910   | 6700   | 9740   | 2690   | 3550   | 2470   | 2080  | 2440  |
| 20    | 2710  | 6400   | 4150   | 2900  | 8160   | 5950   | 7100   | 2680   | 3330   | 2390   | 2230  | 2330  |
| 21    | 2280  | 6450   | 3800   | 2920  | 7400   | 5450   | 5630   | 3400   | 3000   | 2300   | 2150  | 2190  |
| 22    | 2380  | 5730   | 3630   | 3020  | 6660   | 5770   | 4750   | 8030   | 2770   | 2230   | 1970  | 2060  |
| 23    | 2680  | 5780   | 3560   | 3050  | 5990   | 7280   | 4300   | 9300   | 2620   | 2180   | 1930  | 1990  |
| 24    | 2590  | 6770   | 3530   | 3020  | 5710   | 8320   | 4110   | 7600   | 2610   | 2140   | 1950  | 1790  |
| 25    | 2290  | 7690   | 3550   | 3060  | 5960   | 8960   | 3950   | 6420   | 2720   | 2100   | 1860  | 1750  |
| 26    | 2180  | 9360   | 3490   | 3230  | 5950   | 9110   | 3910   | 6050   | 2560   | 2080   | 1780  | 1700  |
| 27    | 2010  | 11600  | 3260   | 3540  | 5590   | 8840   | 3800   | 5950   | 2510   | 2050   | 1720  | 1670  |
| 28    | 2770  | 12000  | 3070   | 3730  | 5340   | 8520   | 3580   | 6480   | 2420   | 2040   | 1690  | 1640  |
| 29    | 4840  | 11400  | 2980   | 3770  | ---    | 8250   | 3420   | 6590   | 2360   | 2090   | 1690  | 1610  |
| 30    | 4940  | 11400  | 2910   | 3750  | ---    | 9900   | 3280   | 5610   | 2520   | 2290   | 1790  | 1580  |
| 31    | 3500  | ---    | 2870   | 3650  | ---    | 13400  | ---    | 4890   | ---    | 2380   | 1900  | ---   |
| TOTAL | 75140 | 156520 | 167690 | 98790 | 247560 | 327600 | 470270 | 127650 | 104060 | 144670 | 61010 | 64010 |
| MEAN  | 2424  | 5217   | 5409   | 3187  | 8841   | 10570  | 15680  | 4118   | 3469   | 4667   | 1968  | 2134  |
| MAX   | 4940  | 12000  | 10700  | 3770  | 21300  | 20700  | 27800  | 9300   | 4650   | 18200  | 2230  | 2980  |
| MIN   | 1630  | 2840   | 2870   | 2760  | 3560   | 4360   | 3280   | 2680   | 2360   | 2040   | 1690  | 1580  |
| CFSM  | .37   | .79    | .82    | .49   | 1.35   | 1.61   | 2.39   | .63    | .53    | .71    | .30   | .33   |
| IN.   | .43   | .89    | .95    | .56   | 1.40   | 1.85   | 2.66   | .72    | .59    | .82    | .35   | .36   |

CAL YR 1980 TOTAL 6206620 MEAN 16960 MAX 104000 MIN 1630 CFSM 2.58 IN 35.13  
WTR YR 1981 TOTAL 2044970 MEAN 5603 MAX 27800 MIN 1580 CFSM .85 IN 11.57

## PEARL RIVER BASIN

02489500 PEARL RIVER NEAR BOGALUSA, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP  |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 1    | 8.96  | 9.79  | 15.67 | 9.29  | 10.03 | 11.69 | 17.59 | 9.42  | 10.73 | 8.40  | 7.92 | 7.40 |
| 2    | 9.52  | 9.65  | 15.32 | 9.24  | 10.52 | 11.40 | 17.92 | 9.28  | 10.01 | 8.45  | 7.71 | 8.07 |
| 3    | 9.25  | 9.98  | 14.98 | 9.19  | 11.75 | 11.10 | 18.24 | 9.14  | 10.77 | 10.08 | 7.61 | 8.23 |
| 4    | 8.73  | 10.13 | 14.63 | 9.16  | 12.03 | 10.86 | 18.35 | 9.03  | 11.25 | 15.44 | 7.76 | 9.00 |
| 5    | 8.31  | 10.10 | 14.16 | 9.13  | 13.08 | 11.78 | 18.40 | 9.01  | 11.10 | 17.64 | 7.82 | 9.20 |
| 6    | 8.06  | 10.07 | 13.48 | 9.10  | 14.36 | 15.43 | 18.45 | 9.05  | 10.80 | 17.95 | 7.63 | 8.85 |
| 7    | 7.90  | 10.05 | 12.91 | 9.19  | 15.34 | 17.59 | 18.51 | 9.09  | 10.55 | 16.89 | 7.49 | 8.47 |
| 8    | 7.81  | 10.04 | 12.55 | 9.48  | 15.47 | 18.17 | 18.65 | 9.01  | 10.30 | 14.81 | 7.64 | 8.42 |
| 9    | 7.76  | 10.04 | 12.28 | 9.70  | 15.41 | 18.31 | 18.78 | 8.91  | 10.22 | 12.80 | 7.83 | 8.25 |
| 10   | 7.73  | 10.02 | 12.35 | 9.74  | 16.63 | 18.21 | 18.86 | 8.88  | 10.06 | 11.34 | 7.66 | 7.96 |
| 11   | 7.71  | 9.97  | 13.46 | 10.03 | 18.38 | 17.97 | 18.94 | 8.85  | 9.95  | 10.75 | 7.45 | 7.66 |
| 12   | 7.68  | 9.91  | 13.88 | 10.20 | 17.96 | 17.72 | 18.96 | 8.76  | 10.16 | 11.13 | 7.38 | 7.42 |
| 13   | 7.64  | 9.87  | 13.38 | 10.16 | 16.96 | 17.50 | 18.95 | 9.18  | 10.02 | 11.11 | 7.42 | 7.27 |
| 14   | 7.60  | 9.85  | 12.71 | 10.04 | 16.07 | 17.30 | 18.91 | 9.60  | 10.31 | 10.19 | 7.43 | 7.18 |
| 15   | 7.58  | 9.86  | 12.25 | 9.96  | 15.44 | 16.90 | 18.83 | 9.36  | 10.15 | 9.59  | 7.46 | 7.36 |
| 16   | 7.56  | 9.96  | 11.97 | 9.91  | 15.23 | 16.25 | 18.69 | 9.10  | 10.02 | 9.15  | 7.49 | 7.86 |
| 17   | 7.57  | 10.00 | 11.89 | 9.82  | 15.50 | 15.22 | 18.22 | 8.91  | 9.99  | 8.76  | 7.77 | 8.20 |
| 18   | 7.69  | 11.27 | 11.84 | 9.57  | 15.23 | 14.08 | 17.06 | 8.80  | 9.83  | 8.50  | 7.78 | 8.26 |
| 19   | 8.53  | 12.62 | 11.61 | 9.29  | 14.73 | 13.17 | 15.17 | 8.72  | 9.78  | 8.37  | 7.73 | 8.28 |
| 20   | 9.39  | 13.19 | 11.12 | 9.17  | 14.27 | 12.53 | 13.48 | 8.70  | 9.47  | 8.24  | 7.97 | 8.09 |
| 21   | 8.69  | 13.22 | 10.70 | 9.20  | 13.72 | 12.06 | 12.22 | 9.77  | 9.02  | 8.11  | 7.85 | 7.85 |
| 22   | 8.87  | 12.72 | 10.48 | 9.33  | 13.12 | 12.36 | 11.32 | 14.20 | 8.66  | 7.99  | 7.55 | 7.64 |
| 23   | 9.38  | 12.76 | 10.37 | 9.37  | 12.54 | 13.63 | 10.80 | 14.95 | 8.41  | 7.90  | 7.47 | 7.52 |
| 24   | 9.23  | 13.43 | 10.33 | 9.32  | 12.28 | 14.38 | 10.58 | 13.92 | 8.40  | 7.84  | 7.51 | 7.17 |
| 25   | 8.75  | 14.01 | 10.35 | 9.36  | 12.52 | 14.76 | 10.40 | 13.01 | 8.60  | 7.77  | 7.36 | 7.10 |
| 26   | 8.57  | 14.98 | 10.25 | 9.60  | 12.51 | 14.85 | 10.36 | 12.70 | 8.34  | 7.73  | 7.22 | 7.03 |
| 27   | 8.29  | 16.02 | 9.93  | 10.04 | 12.17 | 14.69 | 10.24 | 12.60 | 8.26  | 7.68  | 7.12 | 6.96 |
| 28   | 9.56  | 16.20 | 9.67  | 10.32 | 11.94 | 14.50 | 9.97  | 13.03 | 8.13  | 7.67  | 7.08 | 6.92 |
| 29   | 11.99 | 15.97 | 9.52  | 10.35 | ---   | 14.33 | 9.75  | 13.12 | 8.03  | 7.76  | 7.07 | 6.86 |
| 30   | 12.08 | 15.95 | 9.42  | 10.32 | ---   | 15.25 | 9.57  | 12.28 | 8.30  | 8.08  | 7.24 | 6.80 |
| 31   | 10.51 | ---   | 9.35  | 10.18 | ---   | 16.72 | ---   | 11.53 | ---   | 8.24  | 7.43 | ---  |
| MEAN | 8.67  | 11.72 | 12.03 | 9.64  | 14.11 | 14.86 | 15.54 | 10.38 | 9.65  | 10.21 | 7.54 | 7.78 |
| MAX  | 12.08 | 16.20 | 15.67 | 10.35 | 18.38 | 18.31 | 18.96 | 14.95 | 11.25 | 17.95 | 7.97 | 9.20 |
| MIN  | 7.56  | 9.65  | 9.35  | 9.10  | 10.03 | 10.86 | 9.57  | 8.70  | 8.03  | 7.67  | 7.07 | 6.80 |

02489500 PEARL RIVER NEAR BOGALUSA, LA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1952-53, 1963 to October 1980, April 1981 to September 1981 (discontinued).

## PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1962 to September 1970, June 1975 to October 1980, April 1981 to September 1981 (discontinued).

pH: June 1975 to October 1980 (discontinued).

WATER TEMPERATURES: November 1962 to September 1970, June 1975 to October 1980, April 1981 to September 1981 (discontinued).

DISSOLVED OXYGEN: June 1975 to October 1980 (discontinued).

SUSPENDED-SEDIMENT CONCENTRATIONS: April 1967 to current year.

SUSPENDED-SEDIMENT DISCHARGE: April 1967 to current year.

SUSPENDED-SEDIMENT SIEVE DIAMETER, PERCENT FINER THAN .062 MM: October 1979 to current year.

INSTRUMENTATION.--Water-quality monitor June 1975 to October 1980 (discontinued).

REMARKS.--Suspended-sediment data, sieve diameter, percent finer than .062 MM are instantaneous.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 180 micromhos Sept. 10, 1965; minimum, 17 micromhos Apr. 26, 1979.

pH: Maximum, 8.4 units Oct. 19, 21, 1976; minimum, 5.4 units Jan. 23, 24, 1977, Jan. 18-20, 1980.

WATER TEMPERATURES: Maximum daily, 35.0°C July 23, 1981; minimum daily, 2.0°C Dec. 21, 1963.

DISSOLVED OXYGEN: Maximum, 12.9 mg/L Oct. 22, Dec. 1, 1976; minimum, 2.9 mg/L May 25, 1977.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 522 mg/L Dec. 17, 1967; minimum daily mean, 2 mg/L Nov. 11-13, 1970, Oct. 15, 17, Nov. 14, 1971.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily mean, 60,700 tons (55,100 tonnes) Mar. 31, 1980; minimum daily mean, 7 tons (6.4 tonnes) Nov. 11-13, 1970.

SUSPENDED-SEDIMENT SIEVE DIAMETER, PERCENT FINER THAN .062 MM: Maximum daily, 100 percent on several days during Mar., May, June, July, Aug., Sept. 1981; minimum daily, 34 percent Mar. 30, 1980.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 103 micromhos May 16; minimum daily, 35 micromhos July 5.

WATER TEMPERATURES: Maximum daily, 35.0°C July 23; minimum daily, 20.0°C Apr. 6, 7, 9-12.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 421 mg/L July 5; minimum daily mean, 20 mg/L Dec. 23, Jan. 20.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily mean, 18,900 tons (17,100 tonnes) July 5; minimum daily mean, 157 tons (142 tonnes) Oct. 14, Jan. 20.

SUSPENDED-SEDIMENT SIEVE DIAMETER, PERCENT FINER THAN .062 MM: Maximum daily, 100 percent on several days during Mar., May, June, July, Aug., Sept.; minimum daily, 44 percent Dec. 29.

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

| DATE  | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) |
|-------|------|---------------------------------------------------|---------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------|
| OCT   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 15... | 1100 | 87                                                | 6.7           | 20.5                        | 10                                           | 2.2                          | 10.2                                | 2.3                                                            | K16                                                            | K260                                                               | 13                                     |
| NOV   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 04... | 1045 | 115                                               | 6.3           | --                          | 40                                           | 28                           | 9.7                                 | 2.3                                                            | K85                                                            | 120                                                                | 16                                     |
| DEC   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 04... | 1000 | 67                                                | 5.9           | 11.5                        | 50                                           | 29                           | 10.2                                | 1.6                                                            | 120                                                            | K70                                                                | 15                                     |
| JAN   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 15... | 0915 | 81                                                | 6.1           | 7.0                         | 15                                           | 3.1                          | 11.8                                | 1.4                                                            | K4                                                             | 720                                                                | 14                                     |
| FEB   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 02... | 1045 | 72                                                | 6.3           | 11.0                        | 40                                           | 8.5                          | 11.0                                | 2.3                                                            | --                                                             | K1000                                                              | 14                                     |
| MAR   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 09... | 1315 | 59                                                | 5.6           | 14.5                        | 70                                           | 99                           | 7.9                                 | 3.4                                                            | K380                                                           | 1100                                                               | 13                                     |
| APR   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 09... | 1230 | 49                                                | 5.6           | 20.5                        | 40                                           | 54                           | 7.4                                 | 3.0                                                            | 140                                                            | K520                                                               | 12                                     |
| MAY   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 08... | 1015 | 94                                                | 6.4           | 22.0                        | 10                                           | 2.2                          | 8.2                                 | 2.5                                                            | K20                                                            | 7200                                                               | 18                                     |
| JUN   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 04... | 1130 | 85                                                | 5.8           | 27.0                        | 60                                           | 27                           | 6.0                                 | 4.0                                                            | 340                                                            | K40                                                                | 14                                     |
| JUL   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 07... | 1245 | 49                                                | 5.6           | 26.0                        | 80                                           | 70                           | 6.6                                 | .4                                                             | K190                                                           | 1300                                                               | 12                                     |
| AUG   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 07... | 1230 | 100                                               | 7.1           | 31.0                        | 5                                            | 10                           | 7.1                                 | 5.1                                                            | 2000                                                           | --                                                                 | 17                                     |
| SEP   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 04... | 1300 | 76                                                | 6.4           | 28.0                        | 20                                           | 8.0                          | 8.1                                 | 2.8                                                            | 280                                                            | 2300                                                               | 12                                     |

&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).

## PEARL RIVER BASIN

02489500 PEARL RIVER NEAR BOGALUSA, LA--Continued

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

| DATE      | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>FIELD<br>(MG/L<br>AS<br>CACO3) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) |
|-----------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|
| OCT 15... | 0                                                      | 3.4                                          | 1.0                                                  | 12                                           | 1.7                                                 | 19                                                | 11                                            | 7.7                                                 | .1                                                 | 7.9                                               | 62                                                                 |
| NOV 04... | 0                                                      | 3.7                                          | 1.7                                                  | 17                                           | 2.2                                                 | 16                                                | 15                                            | 18                                                  | .1                                                 | 9.6                                               | 91                                                                 |
| DEC 04... | 4                                                      | 4.0                                          | 1.1                                                  | 6.4                                          | 2.4                                                 | 11                                                | 10                                            | 6.5                                                 | .2                                                 | 8.6                                               | 55                                                                 |
| JAN 15... | 1                                                      | 3.9                                          | 1.0                                                  | 10                                           | 1.5                                                 | 13                                                | 11                                            | 7.6                                                 | .1                                                 | 8.8                                               | 69                                                                 |
| FEB 02... | 3                                                      | 3.6                                          | 1.3                                                  | 9.5                                          | 1.9                                                 | 11                                                | 11                                            | 9.1                                                 | .1                                                 | 6.3                                               | --                                                                 |
| MAR 09... | 6                                                      | 3.5                                          | 1.0                                                  | 5.2                                          | 2.2                                                 | 7                                                 | 4.4                                           | 10                                                  | .1                                                 | 5.6                                               | 50                                                                 |
| APR 09... | 5                                                      | 3.1                                          | 1.0                                                  | 5.2                                          | 2.0                                                 | 7                                                 | 10                                            | 4.2                                                 | .0                                                 | 5.0                                               | 46                                                                 |
| MAY 08... | 0                                                      | 5.0                                          | 1.3                                                  | 11                                           | 1.6                                                 | 23                                                | 8.0                                           | 7.5                                                 | .0                                                 | 11                                                | 68                                                                 |
| JUN 04... | 0                                                      | 3.9                                          | 1.0                                                  | 10                                           | 2.2                                                 | 15                                                | 11                                            | 5.8                                                 | .1                                                 | 8.8                                               | 66                                                                 |
| JUL 07... | 4                                                      | 3.3                                          | .8                                                   | 4.7                                          | 2.2                                                 | 8                                                 | 4.8                                           | 4.2                                                 | .1                                                 | 6.3                                               | 44                                                                 |
| AUG 07... | 0                                                      | 4.7                                          | 1.2                                                  | 13                                           | 2.3                                                 | 27                                                | 11                                            | 8.3                                                 | .1                                                 | 9.1                                               | 73                                                                 |
| SEP 04... | 0                                                      | 3.3                                          | .9                                                   | 10                                           | 2.2                                                 | 16                                                | 13                                            | 7.0                                                 | .1                                                 | 5.6                                               | 55                                                                 |

| DATE      | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN+AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN+AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) | CARBON<br>ORGANIC<br>SUS-<br>PENDED<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------|
| OCT 15... | 56                                                             | .00                                                  | .00                                                           | .01                                                  | .02                                                           | 1.0                                                                | 1.1                                                                         | .07                                         | .06                                                  | --                                            | 4.3                                                    | 2.5                                                            |
| NOV 04... | 78                                                             | .24                                                  | .24                                                           | .01                                                  | .01                                                           | .88                                                                | .88                                                                         | .12                                         | .13                                                  | --                                            | --                                                     | --                                                             |
| DEC 04... | 46                                                             | .20                                                  | .20                                                           | .01                                                  | .01                                                           | .79                                                                | .78                                                                         | .08                                         | .06                                                  | 6.2                                           | --                                                     | --                                                             |
| JAN 15... | 52                                                             | .31                                                  | .30                                                           | .13                                                  | .14                                                           | .77                                                                | .74                                                                         | .07                                         | .02                                                  | --                                            | 3.6                                                    | 1.2                                                            |
| FEB 02... | 50                                                             | .05                                                  | .07                                                           | .04                                                  | .08                                                           | 1.0                                                                | .55                                                                         | .09                                         | .04                                                  | 7.3                                           | --                                                     | --                                                             |
| MAR 09... | 37                                                             | .21                                                  | .23                                                           | .13                                                  | .17                                                           | 1.6                                                                | 1.4                                                                         | .24                                         | .06                                                  | 12                                            | --                                                     | --                                                             |
| APR 09... | 36                                                             | .12                                                  | .15                                                           | --                                                   | .17                                                           | 1.9                                                                | 1.5                                                                         | .17                                         | .07                                                  | --                                            | 7.9                                                    | --                                                             |
| MAY 08... | 59                                                             | .05                                                  | .06                                                           | .06                                                  | .08                                                           | .84                                                                | .70                                                                         | .16                                         | .04                                                  | 3.1                                           | --                                                     | --                                                             |
| JUN 04... | 52                                                             | .18                                                  | .21                                                           | --                                                   | .11                                                           | 1.3                                                                | .98                                                                         | .14                                         | .05                                                  | 8.3                                           | --                                                     | --                                                             |
| JUL 07... | 32                                                             | .40                                                  | .40                                                           | .09                                                  | .10                                                           | 1.1                                                                | .81                                                                         | .26                                         | .12                                                  | --                                            | 6.8                                                    | 1.0                                                            |
| AUG 07... | 66                                                             | .11                                                  | .15                                                           | .17                                                  | <.06                                                          | 1.0                                                                | .80                                                                         | .07                                         | .00                                                  | 5.3                                           | --                                                     | --                                                             |
| SEP 04... | 45                                                             | .01                                                  | .01                                                           | .10                                                  | .09                                                           | 1.4                                                                | .64                                                                         | .09                                         | .02                                                  | 7.3                                           | --                                                     | --                                                             |

| DATE      | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BA) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) |
|-----------|-------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|
| OCT 15... | 1                                   | 1                                            | 100                                                     | 20                                           | 0                                                       | 2                                            | 0                                                              | 0                                                   | 1                                                       | <3                                           |
| JAN 15... | 1                                   | 0                                            | --                                                      | 20                                           | 0                                                       | <1                                           | 0                                                              | 0                                                   | 0                                                       | <3                                           |
| APR 09... | 1                                   | 0                                            | --                                                      | 30                                           | --                                                      | 1                                            | 20                                                             | 10                                                  | 0                                                       | <3                                           |
| JUL 07... | 0                                   | 1                                            | 100                                                     | 100                                          | 0                                                       | <1                                           | 10                                                             | 0                                                   | 2                                                       | <3                                           |

&lt; Actual value is known to be less than the value shown.

## PEARL RIVER BASIN

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02489500 PEARL RIVER NEAR BOGALUSA, LA--Continued

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

| DATE         | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) |
|--------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|
| OCT<br>15... | 8                                                       | 4                                            | 720                                                   | 140                                        | 5                                                     | 3                                          | 330                                                             | 5                                                    | .1                                                      |
| JAN<br>15... | 7                                                       | 6                                            | 780                                                   | 270                                        | 17                                                    | 2                                          | 70                                                              | 20                                                   | .1                                                      |
| APR<br>09... | 2                                                       | 5                                            | --                                                    | 220                                        | 0                                                     | 1                                          | 60                                                              | 60                                                   | .1                                                      |
| JUL<br>07... | 8                                                       | 4                                            | 3200                                                  | 100                                        | 6                                                     | 2                                          | 170                                                             | 20                                                   | .1                                                      |

| DATE         | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AG) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| OCT<br>15... | .0                                           | 3                                                       | 0                                            | 0                                                              | 0                                                   | 1                                                       | 0                                            | 10                                                    | 8                                          |
| JAN<br>15... | .0                                           | 6                                                       | 3                                            | 0                                                              | 0                                                   | 2                                                       | 0                                            | 20                                                    | 10                                         |
| APR<br>09... | .0                                           | 5                                                       | 0                                            | 0                                                              | 0                                                   | 1                                                       | 1                                            | 20                                                    | 10                                         |
| JUL<br>07... | .1                                           | 4                                                       | 3                                            | 0                                                              | 0                                                   | 0                                                       | 0                                            | 70                                                    | 10                                         |

| DATE         | PHYTO-<br>PLANK-<br>TON,<br>TOTAL<br>(CELLS<br>PER ML) |
|--------------|--------------------------------------------------------|
| NOV<br>04... | 6900                                                   |
| MAR<br>09... | 15000                                                  |
| APR<br>09... | --                                                     |
| MAY<br>08... | 22000                                                  |
| JUN<br>04... | 46000                                                  |
| JUL<br>07... | 9200                                                   |
| AUG<br>07... | 21000                                                  |
| SEP<br>04... | --                                                     |



## PEARL RIVER BASIN

02489500 PEARL RIVER NEAR BOGALUSA, LA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 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   |     |     |     |     |     |     | --- | 82  | 61  | 79  | 84  | 84  |
| 2   |     |     |     |     |     |     | --- | 88  | 65  | 82  | 89  | 91  |
| 3   |     |     |     |     |     |     | --- | 92  | 59  | 83  | 90  | 94  |
| 4   |     |     |     |     |     |     | --- | 92  | 74  | 69  | 89  | --- |
| 5   |     |     |     |     |     |     | --- | 91  | 61  | 35  | 87  | --- |
| 6   |     |     |     |     |     |     | 47  | 92  | 66  | 39  | 86  | --- |
| 7   |     |     |     |     |     |     | 50  | 93  | 76  | 48  | 98  | --- |
| 8   |     |     |     |     |     |     | 48  | 93  | 79  | 52  | 94  | --- |
| 9   |     |     |     |     |     |     | 47  | 92  | 67  | 56  | 92  | --- |
| 10  |     |     |     |     |     |     | 47  | 93  | 70  | 57  | 94  | --- |
| 11  |     |     |     |     |     |     | 48  | 95  | 78  | 60  | 93  | --- |
| 12  |     |     |     |     |     |     | 47  | --- | 81  | 65  | 96  | --- |
| 13  |     |     |     |     |     |     | 47  | 96  | 81  | 83  | 96  | --- |
| 14  |     |     |     |     |     |     | 44  | 95  | 89  | 68  | 96  | --- |
| 15  |     |     |     |     |     |     | 45  | 102 | 88  | 66  | 89  | --- |
| 16  |     |     |     |     |     |     | 48  | 103 | 79  | 80  | 83  | --- |
| 17  |     |     |     |     |     |     | 49  | 88  | 76  | 86  | 91  | --- |
| 18  |     |     |     |     |     |     | --- | 82  | 81  | 86  | 83  | --- |
| 19  |     |     |     |     |     |     | 57  | 73  | 76  | 82  | 87  | --- |
| 20  |     |     |     |     |     |     | 59  | 77  | 72  | 79  | 87  | --- |
| 21  |     |     |     |     |     |     | 64  | 82  | 79  | 80  | 85  | --- |
| 22  |     |     |     |     |     |     | 64  | 96  | 83  | 83  | 92  | --- |
| 23  |     |     |     |     |     |     | 65  | 45  | 92  | 87  | 88  | --- |
| 24  |     |     |     |     |     |     | 69  | 57  | 89  | 89  | 92  | --- |
| 25  |     |     |     |     |     |     | 71  | 65  | 81  | 92  | 88  | --- |
| 26  |     |     |     |     |     |     | 78  | 67  | 70  | 90  | 94  | --- |
| 27  |     |     |     |     |     |     | 81  | 73  | 68  | 90  | 88  | --- |
| 28  |     |     |     |     |     |     | 81  | 65  | 73  | 95  | 87  | --- |
| 29  |     |     |     |     |     |     | 84  | 64  | 74  | 95  | 96  | --- |
| 30  |     |     |     |     |     |     | 83  | 49  | 75  | 80  | 88  | --- |
| 31  |     |     |     |     |     |     | --- | 55  | --- | 82  | 89  | --- |
| MAX |     |     |     |     |     |     | 84  | 103 | 92  | 95  | 98  | --- |
| MIN |     |     |     |     |     |     | 44  | 45  | 59  | 35  | 83  | --- |

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 | 27.0 | 29.0 | 30.0 | 29.0 |
| 2   |     |     |     |     |     |     | ---  | 23.0 | 27.0 | 28.0 | 32.0 | 27.0 |
| 3   |     |     |     |     |     |     | ---  | 22.0 | 25.0 | 25.0 | 30.0 | 27.0 |
| 4   |     |     |     |     |     |     | ---  | 23.0 | 27.0 | 27.0 | 29.0 | ---  |
| 5   |     |     |     |     |     |     | ---  | 23.0 | 27.0 | 26.0 | 30.0 | ---  |
| 6   |     |     |     |     |     |     | 20.0 | 23.0 | 26.0 | 25.0 | 30.0 | ---  |
| 7   |     |     |     |     |     |     | 20.0 | 22.0 | 28.0 | 25.0 | 32.0 | ---  |
| 8   |     |     |     |     |     |     | 21.0 | 21.0 | 28.0 | 27.0 | 30.0 | ---  |
| 9   |     |     |     |     |     |     | 20.0 | 21.0 | 28.0 | 30.0 | 29.0 | ---  |
| 10  |     |     |     |     |     |     | 20.0 | 23.0 | 28.0 | 29.0 | 30.0 | ---  |
| 11  |     |     |     |     |     |     | 20.0 | 21.0 | 28.0 | 29.0 | 30.0 | ---  |
| 12  |     |     |     |     |     |     | 20.0 | ---  | 27.0 | 29.0 | 30.0 | ---  |
| 13  |     |     |     |     |     |     | 22.0 | 23.0 | 27.0 | 30.0 | 32.0 | ---  |
| 14  |     |     |     |     |     |     | 21.0 | 23.0 | 27.0 | 30.0 | 31.0 | ---  |
| 15  |     |     |     |     |     |     | 22.0 | 23.0 | 28.0 | 30.0 | 31.0 | ---  |
| 16  |     |     |     |     |     |     | 21.0 | 23.0 | 28.0 | 30.0 | 30.0 | ---  |
| 17  |     |     |     |     |     |     | 23.0 | 23.0 | 28.0 | 30.0 | 30.0 | ---  |
| 18  |     |     |     |     |     |     | ---  | 24.0 | 29.0 | 30.0 | 32.0 | ---  |
| 19  |     |     |     |     |     |     | ---  | 25.0 | 29.0 | 32.0 | 30.0 | ---  |
| 20  |     |     |     |     |     |     | 23.0 | 24.0 | 29.0 | 32.0 | 30.0 | ---  |
| 21  |     |     |     |     |     |     | ---  | 22.0 | 29.0 | 32.0 | 29.0 | ---  |
| 22  |     |     |     |     |     |     | 25.0 | 23.0 | 30.0 | 33.0 | 28.0 | ---  |
| 23  |     |     |     |     |     |     | 24.0 | 22.0 | 30.0 | 35.0 | 28.0 | ---  |
| 24  |     |     |     |     |     |     | 23.0 | ---  | 29.0 | 34.0 | 28.0 | ---  |
| 25  |     |     |     |     |     |     | 22.0 | 23.0 | 28.0 | 33.0 | 28.0 | ---  |
| 26  |     |     |     |     |     |     | 23.0 | 24.0 | 28.0 | 32.0 | 28.0 | ---  |
| 27  |     |     |     |     |     |     | 24.0 | 24.0 | 28.0 | 31.0 | 29.0 | ---  |
| 28  |     |     |     |     |     |     | 23.0 | 25.0 | 29.0 | 32.0 | 27.0 | ---  |
| 29  |     |     |     |     |     |     | 23.0 | 26.0 | 29.0 | 31.0 | 28.0 | ---  |
| 30  |     |     |     |     |     |     | 23.0 | 26.0 | 28.0 | 29.0 | 28.0 | ---  |
| 31  |     |     |     |     |     |     | ---  | 27.0 | ---  | 31.0 | 28.0 | ---  |
| MAX |     |     |     |     |     |     | 25.0 | 27.0 | 30.0 | 35.0 | 32.0 | ---  |
| MIN |     |     |     |     |     |     | 20.0 | 21.0 | 25.0 | 25.0 | 27.0 | ---  |

## PEARL RIVER BASIN

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02489500 PEARL RIVER NEAR BOGALUSA, LA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DAY       | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) |                  | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) |                  | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) |                  | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) |                  | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) |                  | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) |        |
|-----------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|------------------|--------------------------------------|--------|
|           | LOADS<br>(T/DAY)                     | LOADS<br>(T/DAY) | LOADS<br>(T/DAY)                     | LOADS<br>(T/DAY) | LOADS<br>(T/DAY)                     | LOADS<br>(T/DAY) | LOADS<br>(T/DAY)                     | LOADS<br>(T/DAY) | LOADS<br>(T/DAY)                     | LOADS<br>(T/DAY) | LOADS<br>(T/DAY)                     |        |
| OCTOBER   |                                      |                  |                                      |                  |                                      |                  |                                      |                  |                                      |                  |                                      |        |
| 1         | 64                                   | 496              | 89                                   | 706              | 136                                  | 3930             | 36                                   | 276              | 37                                   | 356              | ---                                  | ---    |
| 2         | 66                                   | 581              | 83                                   | 636              | 118                                  | 3190             | 30                                   | 228              | 40                                   | 424              | ---                                  | ---    |
| 3         | 42                                   | 348              | 76                                   | 634              | 102                                  | 2580             | 35                                   | 265              | 48                                   | 640              | 39                                   | 479    |
| 4         | 54                                   | 399              | 75                                   | 650              | 79                                   | 1860             | 47                                   | 353              | 46                                   | 647              | 42                                   | 494    |
| 5         | 48                                   | 323              | 83                                   | 713              | 81                                   | 1740             | 30                                   | 224              | 57                                   | 993              | E123                                 | 1720   |
| 6         | 53                                   | 336              | 64                                   | 546              | 57                                   | 1060             | 23                                   | 171              | 54                                   | 1210             | E286                                 | E7950  |
| 7         | 40                                   | 243              | 65                                   | 551              | 52                                   | 845              | 22                                   | 168              | 104                                  | 2840             | E329                                 | E14600 |
| 8         | 44                                   | 215              | 64                                   | 541              | 43                                   | 644              | 35                                   | 285              | 110                                  | 3060             | 304                                  | 16100  |
| 9         | 38                                   | 183              | 63                                   | 532              | 43                                   | 606              | 36                                   | 309              | 103                                  | 2840             | E281                                 | E15700 |
| 10        | 40                                   | 190              | 52                                   | 438              | 42                                   | 601              | 36                                   | 312              | 138                                  | 4880             | E245                                 | E13200 |
| 11        | 40                                   | 188              | 47                                   | 391              | 59                                   | 1090             | 26                                   | 240              | 248                                  | 14300            | E207                                 | E10200 |
| 12        | 40                                   | 186              | 58                                   | 474              | 57                                   | 1150             | 34                                   | 326              | 142                                  | 7020             | E181                                 | E8310  |
| 13        | 37                                   | 169              | 55                                   | 445              | 60                                   | 1090             | 33                                   | 315              | 104                                  | 3960             | E156                                 | E6740  |
| 14        | 35                                   | 157              | 58                                   | 467              | 58                                   | 905              | 32                                   | 298              | 108                                  | 3410             | 133                                  | 5460   |
| 15        | 44                                   | 195              | 46                                   | 371              | 44                                   | 620              | 37                                   | 340              | 90                                   | 2500             | 110                                  | 4130   |
| 16        | 42                                   | 185              | 50                                   | 414              | 40                                   | 531              | 36                                   | 328              | 102                                  | 2720             | 86                                   | 2810   |
| 17        | 37                                   | 163              | 49                                   | 410              | 46                                   | 601              | 50                                   | 448              | 94                                   | 2640             | 76                                   | 2020   |
| 18        | 43                                   | 196              | 62                                   | 695              | 41                                   | 530              | 39                                   | 332              | 80                                   | 2130             | 74                                   | 1570   |
| 19        | 46                                   | 272              | 72                                   | 1090             | 41                                   | 505              | 35                                   | 280              | 70                                   | 1680             | 68                                   | 1230   |
| 20        | 50                                   | 366              | 103                                  | 1780             | 40                                   | 448              | 20                                   | 157              | 68                                   | 1500             | 62                                   | 996    |
| 21        | 42                                   | 259              | 213                                  | 3710             | 36                                   | 369              | ---                                  | ---              | 62                                   | 1240             | 48                                   | 706    |
| 22        | 46                                   | 296              | 58                                   | 897              | 36                                   | 353              | ---                                  | ---              | 62                                   | 1110             | 60                                   | 935    |
| 23        | 50                                   | 362              | 78                                   | 1220             | 20                                   | 192              | 39                                   | 321              | 61                                   | 987              | 88                                   | 1730   |
| 24        | 60                                   | 420              | 73                                   | 1330             | 28                                   | 267              | 32                                   | 261              | 51                                   | 786              | 74                                   | 1660   |
| 25        | 68                                   | 420              | 84                                   | 1740             | 28                                   | 268              | 38                                   | 314              | 60                                   | 966              | 83                                   | 2010   |
| 26        | 62                                   | 365              | 126                                  | 3180             | 27                                   | 254              | 58                                   | 506              | 58                                   | 932              | 104                                  | 2560   |
| 27        | 61                                   | 331              | 197                                  | 6170             | 54                                   | 475              | 50                                   | 478              | 70                                   | 1060             | 90                                   | 2150   |
| 28        | 76                                   | 568              | 154                                  | 4990             | 54                                   | 448              | 46                                   | 463              | 92                                   | 1330             | 88                                   | 2020   |
| 29        | 114                                  | 1490             | 134                                  | 4120             | 53                                   | 426              | 41                                   | 417              | ---                                  | ---              | 94                                   | 2090   |
| 30        | 92                                   | 1230             | 151                                  | 4650             | 38                                   | 299              | 41                                   | 415              | ---                                  | ---              | 96                                   | 2570   |
| 31        | 93                                   | 879              | ---                                  | ---              | 52                                   | 403              | 36                                   | 355              | ---                                  | ---              | 165                                  | 5970   |
| TOTAL     | ---                                  | 12011            | ---                                  | 44491            | ---                                  | 28280            | ---                                  | 9185             | ---                                  | 68161            | ---                                  | 138110 |
| APRIL     |                                      |                  |                                      |                  |                                      |                  |                                      |                  |                                      |                  |                                      |        |
| 1         | 200                                  | 8860             | 56                                   | 478              | 60                                   | 680              | 50                                   | 347              | 52                                   | 307              | 59                                   | 299    |
| 2         | 216                                  | 10500            | 52                                   | 428              | 57                                   | 560              | 48                                   | 337              | 54                                   | 300              | 60                                   | 371    |
| 3         | 254                                  | 13800            | 54                                   | 429              | 134                                  | 1540             | 78                                   | 775              | 62                                   | 335              | 56                                   | 360    |
| 4         | 217                                  | 12400            | 47                                   | 363              | 96                                   | 1210             | 366                                  | 10200            | 54                                   | 305              | ---                                  | ---    |
| 5         | 239                                  | 13900            | 43                                   | 330              | 64                                   | 781              | 421                                  | 18900            | 55                                   | 316              | ---                                  | ---    |
| 6         | 213                                  | 12700            | 48                                   | 371              | 56                                   | 649              | 258                                  | 12700            | 52                                   | 284              | ---                                  | ---    |
| 7         | 196                                  | 11900            | 50                                   | 387              | 51                                   | 563              | 156                                  | 5850             | 54                                   | 281              | ---                                  | ---    |
| 8         | 219                                  | 14200            | 38                                   | 288              | 50                                   | 526              | 116                                  | 2830             | 44                                   | 240              | ---                                  | ---    |
| 9         | 208                                  | 14300            | 28                                   | 208              | 44                                   | 457              | 94                                   | 1560             | 46                                   | 266              | ---                                  | ---    |
| 10        | 214                                  | 15300            | 25                                   | 185              | 42                                   | 423              | 75                                   | 942              | 47                                   | 258              | ---                                  | ---    |
| 11        | 182                                  | 13600            | 30                                   | 221              | 42                                   | 414              | 72                                   | 809              | 47                                   | 242              | ---                                  | ---    |
| 12        | 167                                  | 12500            | 36                                   | 260              | 38                                   | 392              | 59                                   | 709              | 43                                   | 217              | ---                                  | ---    |
| 13        | 191                                  | 14300            | 41                                   | 324              | 34                                   | 341              | 59                                   | 706              | 51                                   | 262              | ---                                  | ---    |
| 14        | 167                                  | 12200            | 41                                   | 358              | 44                                   | 469              | ---                                  | ---              | 49                                   | 251              | ---                                  | ---    |
| 15        | 150                                  | 10600            | 46                                   | 381              | 47                                   | 486              | ---                                  | ---              | 48                                   | 249              | ---                                  | ---    |
| 16        | 148                                  | 9750             | 66                                   | 517              | 45                                   | 453              | ---                                  | ---              | 47                                   | 246              | ---                                  | ---    |
| 17        | 128                                  | 6910             | 64                                   | 484              | 50                                   | 499              | ---                                  | ---              | 52                                   | 296              | ---                                  | ---    |
| 18        | 119                                  | 4630             | 40                                   | 296              | 46                                   | 445              | ---                                  | ---              | 52                                   | 296              | ---                                  | ---    |
| 19        | 117                                  | 3080             | 38                                   | 276              | 45                                   | 431              | ---                                  | ---              | 52                                   | 292              | ---                                  | ---    |
| 20        | 93                                   | 1780             | 40                                   | 289              | 54                                   | 486              | 42                                   | 271              | 54                                   | 325              | ---                                  | ---    |
| 21        | 85                                   | 1290             | 38                                   | 349              | 52                                   | 421              | 45                                   | 279              | 55                                   | 319              | ---                                  | ---    |
| 22        | 83                                   | 1060             | 202                                  | 4380             | 48                                   | 359              | 48                                   | 289              | 62                                   | 330              | ---                                  | ---    |
| 23        | 73                                   | 848              | 416                                  | 10400            | 46                                   | 325              | 48                                   | 283              | 55                                   | 287              | ---                                  | ---    |
| 24        | 58                                   | 644              | 217                                  | 4450             | 45                                   | 317              | 46                                   | 266              | 50                                   | 263              | ---                                  | ---    |
| 25        | 44                                   | 469              | 130                                  | 2250             | 48                                   | 353              | 48                                   | 272              | 56                                   | 281              | ---                                  | ---    |
| 26        | 63                                   | 665              | 136                                  | 2220             | 46                                   | 318              | 45                                   | 253              | 53                                   | 255              | ---                                  | ---    |
| 27        | 116                                  | 1190             | 96                                   | 1540             | 52                                   | 352              | 40                                   | 221              | 54                                   | 251              | ---                                  | ---    |
| 28        | 120                                  | 1160             | 90                                   | 1570             | 50                                   | 327              | 42                                   | 231              | 54                                   | 246              | ---                                  | ---    |
| 29        | 102                                  | 942              | 92                                   | 1640             | 49                                   | 312              | 38                                   | 214              | 66                                   | 301              | ---                                  | ---    |
| 30        | 68                                   | 602              | 96                                   | 1450             | 51                                   | 347              | 40                                   | 247              | 52                                   | 251              | ---                                  | ---    |
| 31        | ---                                  | ---              | 67                                   | 885              | ---                                  | ---              | 48                                   | 308              | 45                                   | 231              | ---                                  | ---    |
| TOTAL     | ---                                  | 226080           | ---                                  | 38007            | ---                                  | 15236            | ---                                  | 59799            | ---                                  | 8583             | ---                                  | ---    |
| MAY       |                                      |                  |                                      |                  |                                      |                  |                                      |                  |                                      |                  |                                      |        |
| JUNE      |                                      |                  |                                      |                  |                                      |                  |                                      |                  |                                      |                  |                                      |        |
| JULY      |                                      |                  |                                      |                  |                                      |                  |                                      |                  |                                      |                  |                                      |        |
| AUGUST    |                                      |                  |                                      |                  |                                      |                  |                                      |                  |                                      |                  |                                      |        |
| SEPTEMBER |                                      |                  |                                      |                  |                                      |                  |                                      |                  |                                      |                  |                                      |        |

E Estimated.

## PEARL RIVER BASIN

02489500 PEARL RIVER NEAR BOGALUSA, LA--Continued

SEDIMENT, SUSPENDED, SIEVE DIAMETER, PERCENT FINER THAN .062 MM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DAY | ONCE-DAILY |     |     |     |     |     |     |     |     |     |     |     |
|-----|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     | OCT        | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
| 1   | 91         | 85  | 88  | 60  | 86  | --- | 87  | 84  | 96  | 97  | 93  | 100 |
| 2   | 91         | 64  | 92  | 53  | 88  | --- | 90  | 91  | 98  | 93  | 100 | 98  |
| 3   | 90         | 84  | 92  | 57  | 86  | 91  | 82  | 84  | 98  | 94  | 100 | 99  |
| 4   | 92         | 84  | 95  | 60  | 69  | 90  | 82  | 87  | 100 | 92  | 97  | 100 |
| 5   | 94         | 80  | 98  | 92  | 74  | --- | 78  | 98  | 100 | 89  | 99  | --- |
| 6   | 92         | 93  | 98  | 97  | 82  | --- | 79  | 85  | 100 | 85  | 100 | --- |
| 7   | 97         | 98  | 98  | 96  | 86  | --- | 80  | 86  | 100 | 92  | 100 | --- |
| 8   | 94         | 98  | 98  | 72  | 86  | 88  | 78  | 90  | 100 | 95  | 100 | --- |
| 9   | 99         | 96  | 96  | 70  | 90  | --- | 77  | 92  | 96  | 96  | 100 | --- |
| 10  | 98         | 95  | 95  | 67  | 84  | --- | 70  | 100 | 93  | 96  | 96  | --- |
| 11  | 97         | 98  | 96  | 74  | 78  | --- | 75  | 97  | 98  | 96  | 97  | --- |
| 12  | 86         | 90  | 97  | 71  | 73  | --- | 72  | 86  | 100 | 98  | 96  | --- |
| 13  | 86         | 89  | 95  | 67  | 73  | --- | 70  | 88  | 100 | 97  | 96  | --- |
| 14  | 91         | 86  | 94  | 76  | 88  | 90  | 71  | 86  | 91  | --- | 96  | --- |
| 15  | 98         | 98  | 98  | 74  | 90  | 84  | 72  | 90  | 96  | --- | 95  | --- |
| 16  | 94         | 94  | 98  | 78  | 94  | 94  | 70  | 80  | 94  | --- | 94  | --- |
| 17  | 96         | 94  | 96  | 72  | 90  | 95  | 75  | 76  | 100 | --- | 90  | --- |
| 18  | 99         | 92  | 80  | 72  | 80  | 95  | 92  | 99  | 100 | --- | 92  | --- |
| 19  | 99         | 94  | 84  | 66  | 70  | 96  | 95  | 97  | 100 | --- | 94  | --- |
| 20  | 99         | 92  | 90  | 95  | 72  | 99  | 96  | 95  | 98  | 98  | 96  | --- |
| 21  | 98         | 94  | 94  | --- | 75  | 100 | 97  | 96  | 100 | 96  | 88  | --- |
| 22  | 96         | 92  | 85  | --- | 78  | 100 | 91  | 90  | 100 | 100 | 80  | --- |
| 23  | 96         | 92  | 78  | 94  | 73  | 94  | 92  | 96  | 98  | 100 | 91  | --- |
| 24  | 98         | 92  | 87  | 97  | 86  | 96  | 99  | 97  | 96  | 100 | 96  | --- |
| 25  | 99         | 90  | 99  | 89  | 82  | 95  | 94  | 98  | 97  | 100 | 92  | --- |
| 26  | 98         | 92  | 99  | 92  | 84  | 84  | 96  | 98  | 98  | 100 | 95  | --- |
| 27  | 92         | 86  | 48  | 93  | 62  | 88  | 56  | 98  | 100 | 81  | 92  | --- |
| 28  | 95         | 81  | 48  | 94  | 72  | 92  | 55  | 97  | 99  | 86  | 92  | --- |
| 29  | 92         | 82  | 44  | 76  | --- | 90  | 75  | 98  | 97  | 84  | 74  | --- |
| 30  | 98         | 87  | 58  | 77  | --- | 89  | 78  | 98  | 94  | 90  | 100 | --- |
| 31  | 89         | --- | 70  | 85  | --- | 90  | --- | 99  | --- | 88  | 100 | --- |
| MAX | 99         | 98  | 99  | 97  | 94  | --- | 99  | 100 | 100 | 100 | 100 | --- |
| MIN | 86         | 64  | 44  | 53  | 62  | --- | 55  | 76  | 91  | 81  | 74  | --- |

02489500 PEARL RIVER NEAR BOGALUSA, LA--Continued

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

| DATE<br>TIME                  | NOV 4,80<br>1045 | MAR 9,81<br>1315 | MAY 8,81<br>1015 | JUN 4,81<br>1130 | JUL 7,81<br>1245 | AUG 7,81<br>1230 |              |              |              |              |
|-------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------|--------------|--------------|--------------|
| TOTAL CELLS/ML                | 6900             | 15000            | 22000            | 46000            | 9200             | 21000            |              |              |              |              |
| DIVERSITY: DIVISION           | 0.8              | 0.3              | 1.7              | 1.2              | 1.0              | 1.4              |              |              |              |              |
| ..CLASS                       | 0.9              | 0.3              | 1.7              | 1.2              | 1.0              | 1.4              |              |              |              |              |
| ..ORDER                       | 1.4              | 0.5              | 2.2              | 2.0              | 1.8              | 1.8              |              |              |              |              |
| ...FAMILY                     | 1.4              | 0.6              | 2.7              | 2.3              | 2.3              | 2.2              |              |              |              |              |
| ....GENUS                     | 1.8              | 0.8              | 3.5              | 2.9              | 2.9              | 3.0              |              |              |              |              |
| ORGANISM                      | CELLS<br>/ML     | PER-<br>CENT     | CELLS<br>/ML     | PER-<br>CENT     | CELLS<br>/ML     | PER-<br>CENT     | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT |
| CHLOROPHYTA (GREEN ALGAE)     |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ..CHLOROPHYCEAE               |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ...CHLOROCOCCALES             |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ...COELASTRACEAE              |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ....COELASTRUM                | --               | -                | --               | -                | --               | -                | 1100         | 2            | --           | -            |
| ...MICRACTINIACEAE            |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ....GOLENKINIA                | --               | -                | --               | -                | --               | -                | --           | -            | --           | -            |
| ....MICRACTINIUM              | --               | -                | --               | -                | 2100             | 10               | 410          | 1            | *            | 0            |
| ...OOCYSTACEAE                |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ....ANKISTRONESMUS            | 50               | 1                | 300              | 2                | 620              | 3                | 620          | 1            | 120          | 1            |
| ....CHODATELLA                | --               | -                | --               | -                | *                | 0                | --           | -            | --           | -            |
| ....DICTYOSPHAERIUM           | --               | -                | *                | 0                | 210              | 1                | 1200         | 3            | 210          | 2            |
| ....GLOFOACTINIUM             | --               | -                | --               | -                | --               | -                | 270          | 1            | --           | -            |
| ....KIRCHNERIELLA             | --               | -                | --               | -                | --               | -                | 340          | 1            | 140          | 2            |
| ....OOCYSTIS                  | 50               | 1                | --               | -                | --               | -                | 960          | 2            | *            | 0            |
| ....RADIOCOCCUS               | --               | -                | --               | -                | --               | -                | --           | -            | --           | -            |
| ....SELFNASTRUM               | 50               | 1                | --               | -                | 140              | 1                | *            | 0            | 110          | 1            |
| ....TRIFURARIA                | --               | -                | --               | -                | --               | -                | --           | -            | --           | -            |
| ....WESTELLA                  | --               | -                | --               | -                | 550              | 3                | 550          | 1            | 220          | 2            |
| ...SCENEDESMACEAE             |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ....ACTINASTRUM               | --               | -                | --               | -                | 1100             | 5                | 480          | 1            | --           | -            |
| ....CRUCIGENIA                | --               | -                | 150              | 1                | 550              | 3                | 1600         | 4            | 280          | 3            |
| ...SCENEDESMUS                | 550              | 8                | 150              | 1                | 550              | 3                | 1500         | 3            | 520          | 6            |
| ....TETRASTRUM                | --               | -                | --               | -                | 280              | 1                | 270          | 1            | --           | -            |
| ...TETRASPORALES              |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ...PALMELLACEAE               |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ...SPHAEROCYSTIS              | --               | -                | --               | -                | 1100             | 5                | 1200         | 3            | --           | -            |
| ...ZYGNEMATALES               |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ...DESMIDIACEAE               |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ...COSMARIVUM                 | --               | -                | --               | -                | --               | -                | --           | -            | --           | -            |
| ...SPONDYLIOSIUM              | --               | -                | --               | -                | --               | -                | --           | -            | *            | 0            |
| CHRYSOPHYTA                   |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ..BACILLARIOPHYCEAE           |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ...CENTRALES                  |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ...COSCINODISCAEAE            |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ....CYCLOTELLA                | 4400#            | 64               | 410              | 3                | 2500             | 11               | 1100         | 2            | 210          | 2            |
| ....MELOSTRA                  | 450              | 7                | 14000#           | 89               | 2500             | 11               | 960          | 2            | 290          | 3            |
| ...STEPHANODISCUS             | --               | -                | --               | -                | 550              | 3                | *            | 0            | --           | -            |
| ...PENNALES                   |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ...FRAGILARIACEAE             |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ....SYNEDRA                   | --               | -                | 190              | 1                | *                | 0                | *            | 0            | --           | -            |
| ...NAVICULACEAE               |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ....NAVICULA                  | --               | -                | 190              | 1                | --               | -                | --           | -            | *            | 0            |
| ...NITZSCHACEAE               |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ....NITZSCHIA                 | 850              | 12               | 150              | 1                | 2100             | 10               | *            | 0            | *            | 0            |
| ...SURIARELLACEAE             |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ....SURIARELLA                | --               | -                | --               | -                | --               | -                | --           | -            | *            | 0            |
| ...XANTHOPHYCEAE              |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ...HETEROCOCCALES             |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ...CHLOROTHECIACEAE           |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ....OPHIOCYTUM                | 50               | 1                | --               | -                | --               | -                | --           | -            | --           | -            |
| CRYPTOPHYTA (CRYPTOMONADS)    |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ..CRYPTOPHYCEAE               |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ...CRYPTOMONADALS             |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ...CRYPTOMONADACEAE           |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ....CRYPTOMONAS               | --               | -                | --               | -                | --               | -                | 1100         | 2            | --           | -            |
| CYANOPHYTA (BLUE-GREEN ALGAE) |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ..CYANOPHYCEAE                |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ...CHROCOCCALES               |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ...CHROCOCCACEAE              |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ....AGMENELLUM                | --               | -                | --               | -                | --               | -                | 1400         | 3            | 69           | 1            |
| ....ANACYSTIS                 | 450              | 7                | *                | 0                | 6000#            | 28               | 9300#        | 20           | 3700#        | 40           |
| ...HORMOGONALES               |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ...NOSTOCACEAE                |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ....ANARAENA                  | --               | -                | --               | -                | --               | -                | --           | -            | 480          | 5            |
| ...APHANTZOMENON              | --               | -                | --               | -                | --               | -                | --           | -            | 610          | 7            |
| ...OSCILLATORIACEAE           |                  |                  |                  |                  |                  |                  |              |              |              |              |
| ....LYNGRYA                   | --               | -                | --               | -                | --               | -                | --           | -            | 110          | 1            |
| ....OSCILLATORIA              | --               | -                | *                | 0                | --               | -                | 21000#       | 46           | 2000#        | 22           |

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

\* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

## PEARL RIVER BASIN

02489500 PEARL RIVER NEAR BOGALUSA, LA--Continued

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

| DATE<br>TIME             | NOV 4,80<br>1045 |              | MAR 9,81<br>1315 |              | MAY 8,81<br>1015 |              | JUN 4,81<br>1130 |              | JUL 7,81<br>1245 |              | AUG 7,81<br>1230 |              |
|--------------------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|
| ORGANISM                 | CELLS<br>/ML     | PER-<br>CENT | CELLS<br>/ML     | PER-<br>CENT | CELLS<br>/ML     | PER-<br>CENT | CELLS<br>/ML     | PER-<br>CENT | CELLS<br>/ML     | PER-<br>CENT | CELLS<br>/ML     | PER-<br>CENT |
| EUGLENOPHYTA (EUGLENIDS) |                  |              |                  |              |                  |              |                  |              |                  |              |                  |              |
| ..EUGLENOPHYCEAE         |                  |              |                  |              |                  |              |                  |              |                  |              |                  |              |
| ...EUGLENALES            |                  |              |                  |              |                  |              |                  |              |                  |              |                  |              |
| ....EUGLENACEAE          |                  |              |                  |              |                  |              |                  |              |                  |              |                  |              |
| .....EUGLENA             | --               | -            | --               | -            | 480              | 2            | --               | -            | *                | 0            | --               | -            |
| .....PHACUS              | --               | -            | --               | -            | *                | 0            | *                | 0            | --               | -            | --               | -            |
| .....TRACHELOMONAS       | --               | -            | --               | -            | 210              | 1            | --               | -            | --               | -            | --               | -            |
| PYRRHOPHYTA (FIRE ALGAE) |                  |              |                  |              |                  |              |                  |              |                  |              |                  |              |
| ..DINOPHYCEAE            |                  |              |                  |              |                  |              |                  |              |                  |              |                  |              |
| ...GYMNODINIALES         |                  |              |                  |              |                  |              |                  |              |                  |              |                  |              |
| ....GYMNODINIACEAE       |                  |              |                  |              |                  |              |                  |              |                  |              |                  |              |
| .....GYMNODINIUM         | --               | -            | --               | -            | --               | -            | --               | -            | --               | -            | *                | 0            |

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

\* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%



LOCATION.--Lat 30°46'56", long 89°52'24", in SE1/4SE1/4 sec. 15, T. 3 S., R.13 E., St. Helena meridian, Washington Parish, Hydrologic Unit 03180004, near center of span on downstream side of bridge on State Highway 439, at Bogalusa, 0.3 mi (0.5 km) upstream from Ice Water Branch, 0.9 mi (1.4 km) downstream from Adams Creek, and 4.0 mi (6.4 km) upstream from mouth.

REVISED RECORDS.--WRD LA-1974: 1964(P), 1965-66(M), 1967(P), 1969-72(M), 1973(P).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 76.60 ft (23.348 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Records of dissolved oxygen and water temperatures for the water year 1981 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--18 years, 118 ft<sup>3</sup>/s (3.342 m<sup>3</sup>/s), 22.04 in/yr (560 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,100 ft<sup>3</sup>/s (201 m<sup>3</sup>/s) Apr. 18, 1973, gage height, 11.86 ft (3.615 m); minimum, 5.0 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) Oct. 27, 28, 1967, gage height, 3.54 ft (1.079 m), affected by temporary regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 14, 1961, reached a stage of about 13 ft (4.0 m), from information by local resident.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft<sup>3</sup>/s (42 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Discharge<br>(m <sup>3</sup> /s) | Gage height<br>(ft) | Gage height<br>(m) |
|---------|------|-----------------------------------|----------------------------------|---------------------|--------------------|
| Feb. 10 | 1745 | *2480                             | 70.2                             | *8.19               | 2.496              |

Minimum discharge, 14 ft<sup>3</sup>/s (0.396 m<sup>3</sup>/s) Sept. 30; minimum gage height, 3.70 ft (1.128 m) July 24, 25, 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC  | JAN  | FEB  | MAR  | APR    | MAY       | JUN      | JUL  | AUG  | SEP  |
|-------------|-------|-------|------|------|------|------|--------|-----------|----------|------|------|------|
| 1           | 108   | 59    | 68   | 51   | 58   | 72   | 130    | 38        | 36       | 22   | 29   | 57   |
| 2           | 64    | 54    | 64   | 51   | 195  | 72   | 103    | 36        | 121      | 45   | 36   | 61   |
| 3           | 51    | 51    | 60   | 51   | 133  | 68   | 87     | 34        | 77       | 112  | 45   | 180  |
| 4           | 44    | 50    | 57   | 51   | 73   | 73   | 78     | 33        | 56       | 102  | 30   | 149  |
| 5           | 42    | 48    | 56   | 50   | 68   | 146  | 87     | 45        | 48       | 104  | 26   | 70   |
| 6           | 40    | 46    | 56   | 49   | 588  | 117  | 78     | 68        | 46       | 162  | 24   | 43   |
| 7           | 39    | 46    | 55   | 74   | 406  | 80   | 66     | 61        | 48       | 169  | 23   | 32   |
| 8           | 39    | 46    | 53   | 81   | 180  | 70   | 61     | 49        | 78       | 74   | 24   | 26   |
| 9           | 39    | 46    | 55   | 62   | 120  | 65   | 60     | 43        | 61       | 49   | 37   | 23   |
| 10          | 38    | 46    | 98   | 55   | 1650 | 61   | 57     | 44        | 40       | 39   | 28   | 21   |
| 11          | 37    | 46    | 104  | 52   | 1830 | 61   | 54     | 46        | 70       | 37   | 21   | 19   |
| 12          | 36    | 44    | 72   | 51   | 684  | 58   | 53     | 41        | 98       | 35   | 21   | 19   |
| 13          | 35    | 42    | 62   | 50   | 270  | 58   | 51     | 36        | 130      | 38   | 27   | 19   |
| 14          | 35    | 43    | 59   | 50   | 189  | 58   | 49     | 35        | 126      | 33   | 25   | 23   |
| 15          | 35    | 45    | 57   | 51   | 169  | 57   | 46     | 35        | 67       | 29   | 23   | 31   |
| 16          | 35    | 50    | 56   | 50   | 242  | 56   | 44     | 33        | 47       | 26   | 23   | 47   |
| 17          | 37    | 52    | 56   | 48   | 302  | 54   | 43     | 33        | 40       | 25   | 27   | 40   |
| 18          | 44    | 58    | 54   | 48   | 200  | 53   | 42     | 32        | 35       | 23   | 49   | 26   |
| 19          | 231   | 54    | 53   | 47   | 151  | 51   | 40     | 31        | 31       | 23   | 53   | 20   |
| 20          | 150   | 48    | 52   | 50   | 126  | 50   | 40     | 30        | 27       | 21   | 57   | 19   |
| 21          | 71    | 46    | 51   | 55   | 112  | 50   | 41     | 29        | 25       | 21   | 37   | 19   |
| 22          | 55    | 50    | 51   | 55   | 110  | 149  | 58     | 29        | 25       | 20   | 28   | 19   |
| 23          | 49    | 159   | 51   | 51   | 106  | 155  | 54     | 28        | 24       | 19   | 24   | 18   |
| 24          | 46    | 137   | 59   | 49   | 92   | 88   | 60     | 28        | 27       | 18   | 32   | 17   |
| 25          | 48    | 78    | 92   | 48   | 85   | 67   | 56     | 32        | 32       | 15   | 28   | 17   |
| 26          | 45    | 206   | 67   | 48   | 80   | 60   | 48     | 121       | 62       | 16   | 25   | 17   |
| 27          | 43    | 311   | 58   | 48   | 76   | 56   | 42     | 126       | 39       | 17   | 23   | 17   |
| 28          | 364   | 143   | 55   | 48   | 73   | 54   | 39     | 60        | 30       | 23   | 21   | 17   |
| 29          | 149   | 90    | 53   | 45   | ---  | 55   | 38     | 41        | 24       | 75   | 21   | 16   |
| 30          | 91    | 75    | 53   | 43   | ---  | 362  | 38     | 36        | 21       | 60   | 27   | 14   |
| 31          | 69    | ---   | 52   | 43   | ---  | 254  | ---    | 32        | ---      | 39   | 54   | ---  |
| TOTAL       | 2209  | 2269  | 1889 | 1605 | 8368 | 2730 | 1743   | 1365      | 1591     | 1491 | 948  | 1096 |
| MEAN        | 71.3  | 75.6  | 60.9 | 51.8 | 299  | 88.1 | 58.1   | 44.0      | 53.0     | 48.1 | 30.6 | 36.5 |
| MAX         | 364   | 311   | 104  | 81   | 1830 | 362  | 130    | 126       | 130      | 169  | 57   | 180  |
| MIN         | 35    | 42    | 51   | 43   | 58   | 50   | 38     | 28        | 21       | 15   | 21   | 14   |
| CFSM        | .98   | 1.04  | .84  | .71  | 4.11 | 1.21 | .80    | .61       | .73      | .66  | .42  | .50  |
| IN.         | 1.13  | 1.16  | .97  | .82  | 4.28 | 1.40 | .89    | .70       | .81      | .76  | .49  | .56  |
| CAL YR 1980 | TOTAL | 68617 | MEAN | 187  | MAX  | 3200 | MIN 35 | CFSM 2.57 | IN 35.11 |      |      |      |
| WTR YR 1981 | TOTAL | 27304 | MEAN | 74.8 | MAX  | 1830 | MIN 14 | CFSM 1.03 | IN 13.97 |      |      |      |

## PEARL RIVER BASIN

02490105 BOGUE LUSA CREEK AT STATE HIGHWAY 439, AT BOGALUSA, LA

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 4.06 | 3.89 | 3.93 | 3.86 | 3.89 | 3.94 | 4.10 | 3.80 | 3.79 | 3.74 | 3.76 | 3.87 |
| 2    | 3.91 | 3.87 | 3.91 | 3.86 | 4.27 | 3.94 | 4.02 | 3.79 | 4.07 | 3.82 | 3.79 | 3.88 |
| 3    | 3.86 | 3.86 | 3.90 | 3.86 | 4.12 | 3.93 | 3.97 | 3.78 | 3.94 | 4.05 | 3.83 | 4.19 |
| 4    | 3.83 | 3.86 | 3.89 | 3.86 | 3.94 | 3.94 | 3.94 | 3.78 | 3.87 | 4.01 | 3.77 | 4.13 |
| 5    | 3.82 | 3.85 | 3.88 | 3.86 | 3.92 | 4.16 | 3.97 | 3.83 | 3.84 | 4.02 | 3.75 | 3.91 |
| 6    | 3.81 | 3.84 | 3.88 | 3.86 | 4.94 | 4.08 | 3.94 | 3.90 | 3.83 | 4.17 | 3.74 | 3.83 |
| 7    | 3.81 | 3.84 | 3.88 | 3.95 | 4.65 | 3.97 | 3.90 | 3.88 | 3.84 | 4.19 | 3.74 | 3.79 |
| 8    | 3.81 | 3.84 | 3.87 | 3.97 | 4.23 | 3.93 | 3.88 | 3.84 | 3.94 | 3.93 | 3.74 | 3.77 |
| 9    | 3.81 | 3.84 | 3.88 | 3.91 | 4.09 | 3.92 | 3.88 | 3.82 | 3.88 | 3.84 | 3.80 | 3.76 |
| 10   | 3.81 | 3.84 | 4.02 | 3.88 | 6.76 | 3.90 | 3.87 | 3.82 | 3.81 | 3.81 | 3.76 | 3.75 |
| 11   | 3.80 | 3.84 | 4.05 | 3.87 | 7.10 | 3.90 | 3.86 | 3.83 | 3.90 | 3.80 | 3.73 | 3.74 |
| 12   | 3.80 | 3.83 | 3.94 | 3.86 | 5.09 | 3.89 | 3.86 | 3.81 | 4.00 | 3.79 | 3.73 | 3.74 |
| 13   | 3.79 | 3.83 | 3.91 | 3.86 | 4.41 | 3.89 | 3.85 | 3.79 | 4.09 | 3.80 | 3.76 | 3.74 |
| 14   | 3.79 | 3.83 | 3.89 | 3.86 | 4.26 | 3.89 | 3.84 | 3.79 | 4.08 | 3.78 | 3.75 | 3.76 |
| 15   | 3.79 | 3.84 | 3.88 | 3.86 | 4.21 | 3.89 | 3.83 | 3.79 | 3.90 | 3.76 | 3.74 | 3.79 |
| 16   | 3.79 | 3.86 | 3.88 | 3.86 | 4.36 | 3.88 | 3.82 | 3.78 | 3.83 | 3.75 | 3.74 | 3.85 |
| 17   | 3.80 | 3.87 | 3.88 | 3.85 | 4.47 | 3.87 | 3.82 | 3.78 | 3.81 | 3.75 | 3.75 | 3.82 |
| 18   | 3.83 | 3.89 | 3.87 | 3.85 | 4.28 | 3.87 | 3.82 | 3.78 | 3.79 | 3.74 | 3.84 | 3.77 |
| 19   | 4.33 | 3.88 | 3.87 | 3.85 | 4.17 | 3.86 | 3.81 | 3.77 | 3.77 | 3.74 | 3.86 | 3.75 |
| 20   | 4.16 | 3.85 | 3.87 | 3.86 | 4.11 | 3.86 | 3.81 | 3.77 | 3.76 | 3.73 | 3.87 | 3.74 |
| 21   | 3.94 | 3.84 | 3.86 | 3.88 | 4.07 | 3.86 | 3.81 | 3.77 | 3.75 | 3.72 | 3.80 | 3.74 |
| 22   | 3.88 | 3.86 | 3.86 | 3.87 | 4.06 | 4.14 | 3.87 | 3.76 | 3.75 | 3.72 | 3.76 | 3.74 |
| 23   | 3.85 | 4.18 | 3.86 | 3.86 | 4.05 | 4.18 | 3.86 | 3.76 | 3.74 | 3.72 | 3.74 | 3.74 |
| 24   | 3.84 | 4.13 | 3.89 | 3.86 | 4.01 | 3.99 | 3.88 | 3.76 | 3.76 | 3.72 | 3.78 | 3.73 |
| 25   | 3.85 | 3.96 | 4.01 | 3.85 | 3.98 | 3.92 | 3.87 | 3.78 | 3.78 | 3.70 | 3.76 | 3.73 |
| 26   | 3.84 | 4.25 | 3.92 | 3.85 | 3.96 | 3.90 | 3.84 | 4.07 | 3.89 | 3.70 | 3.75 | 3.73 |
| 27   | 3.83 | 4.48 | 3.89 | 3.85 | 3.95 | 3.88 | 3.82 | 4.08 | 3.80 | 3.71 | 3.74 | 3.73 |
| 28   | 4.57 | 4.15 | 3.88 | 3.85 | 3.94 | 3.87 | 3.81 | 3.88 | 3.77 | 3.74 | 3.73 | 3.73 |
| 29   | 4.16 | 4.00 | 3.87 | 3.84 | ---  | 3.88 | 3.80 | 3.81 | 3.74 | 3.92 | 3.73 | 3.73 |
| 30   | 4.01 | 3.95 | 3.87 | 3.83 | ---  | 4.57 | 3.80 | 3.79 | 3.73 | 3.88 | 3.75 | 3.71 |
| 31   | 3.93 | ---  | 3.86 | 3.83 | ---  | 4.38 | ---  | 3.78 | ---  | 3.81 | 3.86 | ---  |
| MEAN | 3.91 | 3.93 | 3.90 | 3.87 | 4.40 | 3.97 | 3.87 | 3.82 | 3.85 | 3.82 | 3.77 | 3.80 |
| MAX  | 4.57 | 4.48 | 4.05 | 3.97 | 7.10 | 4.57 | 4.10 | 4.08 | 4.09 | 4.19 | 3.87 | 4.19 |
| MIN  | 3.79 | 3.83 | 3.86 | 3.83 | 3.89 | 3.86 | 3.80 | 3.76 | 3.73 | 3.70 | 3.73 | 3.71 |

## PEARL RIVER BASIN

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02490193 PEARL RIVER AT POOLS BLUFF, NEAR BOGALUSA, LA

LOCATION.--Lat 30°45'54", long 89°50'00", in lot 40, T.4 S., R.13 E., Washington Parish, Hydrologic Unit 03180004, on right bank, 200 yards (183 m) upstream from Pools Bluff (low water) sill, and 5.3 mi (8.5 km) south of Bogalusa.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Water years 1971, 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1975 to current year.

pH: June 1975 to current year.

WATER TEMPERATURES: June 1975 to current year.

DISSOLVED OXYGEN: June 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since June 1975.

REMARKS.--Flow data available for Pearl River near Bogalusa, La., 10.3 mi (16.6 km) upstream (station 02489500).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 176 micromhos Sept. 23, 1981; minimum, 18 micromhos May 20, 1980.

pH: Maximum, 7.9 units May 3, 1978; minimum 4.8 units Feb. 10, 1981.

WATER TEMPERATURES: Maximum, 33.5°C July 22-24, 1981; minimum, 3.0°C Jan. 19, 20, 1977.

DISSOLVED OXYGEN: Maximum, 13.5 mg/L Jan. 13, 1981; minimum, 3.4 mg/L Aug. 2, 1981.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 176 micromhos Sept. 23; minimum, 22 micromhos Feb. 10.

pH: Maximum, 7.3 units Sept. 26, 28; minimum, 4.8 units Feb. 10.

WATER TEMPERATURES: Maximum, 33.5°C July 22-24; minimum, 6.5°C Jan. 13-15, 17-19.

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

| DATE      | TIME | SPECIFIC CONDUCTANCE (UMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLAT-INUM-COBALT UNITS) | TURBIDITY (NTU) | OXYGEN, DIS-SOLVED (MG/L) | OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L) | COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) |
|-----------|------|------------------------------|------------|---------------------|--------------------------------|-----------------|---------------------------|-------------------------------------------|-------------------------------------------|
| OCT 15... | 1130 | 123                          | 6.6        | 20.5                | 60                             | 7.0             | 8.8                       | 2.9                                       | K35                                       |
| JAN 15... | 0930 | 101                          | 6.2        | 7.5                 | 30                             | 8.0             | 12.1                      | 3.2                                       | K4                                        |
| APR 09... | 1130 | 52                           | 5.5        | 20.0                | 70                             | 40              | 6.9                       | 2.9                                       | K75                                       |
| JUL 01... | 1145 | 110                          | 6.2        | 29.5                | 10                             | 10              | 6.0                       | 3.0                                       | K20                                       |

| DATE      | STRFP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) | HARDNESS (MG/L AS CaCO3) | HARDNESS, NONCARBONATE (MG/L AS CaCO3) | CALCIUM DIS-SOLVED (MG/L AS Ca) | MAGNESIUM, DIS-SOLVED (MG/L AS Mg) | SODIUM, DIS-SOLVED (MG/L AS Na) | POTASSIUM, DIS-SOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CaCO3) | SULFATE DIS-SOLVED (MG/L AS SO4) |
|-----------|-------------------------------------------------|--------------------------|----------------------------------------|---------------------------------|------------------------------------|---------------------------------|-----------------------------------|----------------------------------|----------------------------------|
| OCT 15... | 360                                             | 14                       | 0                                      | 4.0                             | 1.0                                | 20                              | 1.9                               | 28                               | 19                               |
| JAN 15... | 2300                                            | 16                       | 0                                      | 4.5                             | 1.1                                | 13                              | 1.6                               | 18                               | 15                               |
| APR 09... | K24000                                          | 12                       | 4                                      | 3.0                             | 1.0                                | 4.5                             | 2.2                               | 8                                | 10                               |
| JUL 01... | K220                                            | 16                       | 0                                      | 4.4                             | 1.1                                | 14                              | 2.2                               | 17                               | 22                               |

| DATE      | CHLORIDE, DIS-SOLVED (MG/L AS Cl) | FLUORIDE, DIS-SOLVED (MG/L AS F) | SILICA, DIS-SOLVED (MG/L AS SiO2) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) | SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) | NITROGEN, GFN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) |
|-----------|-----------------------------------|----------------------------------|-----------------------------------|-------------------------------------------------|------------------------------------------------|------------------------------------------|-----------------------------------------------|-------------------------------|
| OCT 15... | 8.7                               | .1                               | 8.3                               | 86                                              | 80                                             | .00                                      | 1.4                                           | .09                           |
| JAN 15... | 7.3                               | .1                               | 9.0                               | 71                                              | --                                             | .26                                      | 1.0                                           | .07                           |
| APR 09... | 4.2                               | .0                               | 5.0                               | 48                                              | 35                                             | .10                                      | 1.7                                           | .17                           |
| JUL 01... | 7.0                               | .0                               | 8.7                               | 77                                              | 69                                             | .02                                      | 1.2                                           | .08                           |

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

## PEARL RIVER BASIN

02490193 PEARL RIVER AT POOLS BLUFF, NEAR BOGALUSA, LA--Continued

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

| DATE         | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | ARSENIC<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS AS) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CADMIUM<br>RECOV.<br>FM ROT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CD) | CHRO-<br>MIUM,<br>RECOV.<br>FM ROT-<br>TOM MA-<br>TERIAL<br>(UG/G) | CHRO-<br>MIUM,<br>HEXA-<br>VALENT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COPPER,<br>RECOV.<br>FM ROT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CU) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | IRON,<br>RECOV.<br>FM ROT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|--------------|----------------------------------------------|---------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------------------------------|--------------------------------------------|
| OCT<br>15... | 1                                            | 1                                                                   | <1                                           | 0                                                                    | 1                                                                  | 0                                                                       | 2                                                                    | 4                                            | 170                                        | 1800                                                               | 0                                          |

| DATE         | LEAD,<br>RECOV.<br>FM ROT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS PR) | MANGA-<br>NESE,<br>RECOV.<br>FM ROT-<br>TOM MA-<br>TERIAL<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>RECOV.<br>FM ROT-<br>TOM MA-<br>TERIAL<br>(UG/G) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>RECOV.<br>FM ROT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS HG) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | ZINC,<br>RECOV.<br>FM ROT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS ZN) | CARRON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CYANIDE<br>TOTAL<br>(MG/L<br>AS CN) | PHENOLS<br>(UG/L) | PCB,<br>TOTAL<br>(UG/L) |
|--------------|--------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------|-------------------------------------|-------------------|-------------------------|
| OCT<br>15... | 10                                                                 | 90                                                                           | 210                                                                 | .0                                                      | .01                                                                  | 6                                          | 6                                                                  | 9.6                                           | .00                                 | 0                 | .0                      |

| DATE         | PCR,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | NAPH-<br>THA-<br>LFNES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L) | PCN,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ALDRIN,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ALDRIN,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | CHLOR-<br>DANE,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | CHLOR-<br>DANE,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDD,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | DDD,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDE,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | DDE,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|----------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|
| OCT<br>15... | 0                                                        | .0                                                            | .0                                                       | .00                                                         | .0                                                          | .0                                                                 | .0                                                                  | .00                                                     | .0                                                       | .00                                                     | .0                                                       |

| DATE         | DDT,<br>TOTAL<br>(UG/L) | DDT,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DI-<br>AZINON,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | DI-<br>AZINON,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DI-<br>FLDRIN,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | DI-<br>FLDRIN,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDO-<br>SULFAN,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDRI,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | ENDRI,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|-------------------------|----------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------|
| OCT<br>15... | .00                     | .0                                                       | .00                                                               | .8                                                                 | .00                                                               | .0                                                                 | .00                                                                 | .0                                                                   | .00                                                       | .0                                                         |

| DATE         | ETHION,<br>TOTAL<br>(UG/L) | ETHION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | HEPTA-<br>CHLOR,<br>EPOXIDE<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>EPOXIDE<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | LINDANE<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | LINDANE<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | MALA-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | MALA-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|----------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|
| OCT<br>15... | .00                        | .0                                                          | .00                                                                 | .0                                                                   | .00                                                                            | .0                                                                              | .00                                                        | .0                                                          | .00                                                                | .0                                                                  |

| DATE         | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | MIREX,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | MIREX,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | PARA-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | PARA-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|--------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|
| OCT<br>15... | .00                                        | .0                                                                          | .00                                                                          | .0                                                                            | .00                                                                         | .0                                                                           | .00                                                       | .0                                                         | .00                                                                | .0                                                                  |

| DATE         | PER-<br>THANE<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | TOXA-<br>PHENE,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | TOXA-<br>PHENE,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | TRI-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | TRI-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | 2,4-D,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | 2,4-DP<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | SILVEX,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) |
|--------------|----------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|
| OCT<br>15... | .00                              | .0                                                                | .0                                                                 | 0                                                                   | .00                                                               | .0                                                                 | .01                                                       | .00                                                       | .00                                                        | .00                                                        |

&lt; Actual value is known to be less than the value shown.

02490193 PEARL RIVER AT POOLS BLUFF, NEAR BOGALUSA, LA--Continued

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 |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
| 1     |         |     | ---      | --- | ---      | --- | 84      | 80  | 102      | 95  | 82        | 77  |
| 2     |         |     | ---      | --- | ---      | --- | 81      | 67  | 97       | 81  | 81        | 75  |
| 3     |         |     | ---      | --- | ---      | --- | 74      | 68  | 84       | 76  | 84        | 81  |
| 4     |         |     | ---      | --- | ---      | --- | 88      | 74  | 75       | 67  | 85        | 80  |
| 5     |         |     | 89       | 82  | 70       | 67  | 92      | 88  | 76       | 66  | 85        | 75  |
| 6     |         |     | 91       | 86  | 72       | 68  | 93      | 90  | 85       | 61  | 84        | 70  |
| 7     |         |     | 110      | 88  | 77       | 72  | 94      | 90  | 69       | 60  | 77        | 56  |
| 8     |         |     | 95       | 88  | 80       | 75  | 92      | 88  | 76       | 69  | 54        | 50  |
| 9     |         |     | 89       | 76  | 86       | 80  | ---     | --- | 78       | 68  | 56        | 51  |
| 10    |         |     | 79       | 75  | 88       | 84  | ---     | --- | 71       | 22  | 57        | 54  |
| 11    |         |     | 78       | 74  | 84       | 76  | ---     | --- | 42       | 34  | 59        | 55  |
| 12    |         |     | 78       | 73  | 76       | 73  | ---     | --- | 43       | 39  | 59        | 56  |
| 13    |         |     | 74       | 72  | 79       | 73  | ---     | --- | 51       | 42  | 61        | 56  |
| 14    |         |     | 76       | 73  | 78       | 72  | ---     | --- | 55       | 50  | 63        | 57  |
| 15    |         |     | 77       | 74  | 75       | 71  | ---     | --- | 63       | 52  | 64        | 60  |
| 16    |         |     | 79       | 74  | 78       | 72  | 105     | 100 | 71       | 61  | 66        | 62  |
| 17    |         |     | 75       | 72  | 86       | 78  | 111     | 103 | 70       | 65  | 68        | 62  |
| 18    |         |     | 73       | 64  | 91       | 86  | 109     | 105 | 67       | 64  | 73        | 68  |
| 19    |         |     | 68       | 64  | 90       | 86  | 111     | 104 | 68       | 62  | 76        | 71  |
| 20    |         |     | 68       | 54  | 89       | 82  | 110     | 107 | 71       | 66  | 80        | 74  |
| 21    |         |     | 55       | 51  | 83       | 74  | 107     | 101 | 72       | 68  | 82        | 78  |
| 22    |         |     | 53       | 51  | 80       | 77  | 101     | 95  | 78       | 70  | 84        | 79  |
| 23    |         |     | 54       | 49  | 82       | 78  | 99      | 95  | 77       | 72  | 82        | 71  |
| 24    |         |     | 56       | 50  | 85       | 76  | 99      | 92  | 81       | 74  | 73        | 68  |
| 25    |         |     | 56       | 54  | 75       | 70  | 102     | 92  | 85       | 79  | 80        | 71  |
| 26    |         |     | 54       | 51  | 73       | 69  | 101     | 95  | 89       | 83  | 75        | 69  |
| 27    |         |     | ---      | --- | 76       | 72  | 101     | 90  | 88       | 84  | 79        | 69  |
| 28    |         |     | ---      | --- | 78       | 76  | 102     | 95  | 87       | 79  | 82        | 78  |
| 29    |         |     | ---      | --- | 81       | 77  | 103     | 98  | ---      | --- | 84        | 74  |
| 30    |         |     | ---      | --- | 81       | 77  | 101     | 96  | ---      | --- | 75        | 59  |
| 31    |         |     | ---      | --- | 83       | 80  | 108     | 102 | ---      | --- | 67        | 59  |
| MONTH |         |     | 110      | 49  | 91       | 67  | 111     | 67  | 102      | 22  | 85        | 50  |
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
|       | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
| 1     | 59      | 53  | 110      | 105 | 85       | 78  | 112     | 109 | 120      | 111 | 140       | 129 |
| 2     | 56      | 51  | 116      | 108 | 94       | 84  | 116     | 111 | ---      | --- | 128       | 116 |
| 3     | 56      | 46  | 125      | 114 | 97       | 80  | 118     | 105 | 134      | 125 | 124       | 114 |
| 4     | 60      | 53  | 118      | 115 | 93       | 79  | 121     | 61  | 136      | 131 | 118       | 102 |
| 5     | 53      | 50  | 123      | 114 | 87       | 79  | 64      | 48  | 137      | 128 | 100       | 86  |
| 6     | 53      | 50  | 122      | 117 | 93       | 76  | 58      | 52  | 131      | 127 | 104       | 92  |
| 7     | 53      | 50  | 120      | 116 | 99       | 76  | 67      | 58  | ---      | --- | 115       | 105 |
| 8     | 52      | 50  | 124      | 116 | 107      | 102 | 71      | 65  | ---      | --- | 111       | 105 |
| 9     | 54      | 50  | 120      | 115 | 104      | 96  | 77      | 69  | ---      | --- | 122       | 104 |
| 10    | 55      | 50  | 123      | 117 | 103      | 97  | 78      | 72  | ---      | --- | 124       | 116 |
| 11    | 56      | 51  | 120      | 116 | 108      | 96  | 83      | 75  | ---      | --- | 124       | 116 |
| 12    | 55      | 52  | 125      | 117 | 112      | 101 | 85      | 81  | ---      | --- | 138       | 117 |
| 13    | 53      | 51  | 126      | 120 | 105      | 100 | 103     | 82  | ---      | --- | 121       | 115 |
| 14    | 52      | 50  | 122      | 113 | 105      | 101 | 96      | 85  | ---      | --- | 121       | 114 |
| 15    | 52      | 49  | 128      | 119 | 105      | 97  | 89      | 82  | ---      | --- | 116       | 111 |
| 16    | 56      | 51  | 129      | 126 | 102      | 97  | 104     | 87  | ---      | --- | 116       | 107 |
| 17    | 59      | 54  | 128      | 120 | 97       | 94  | 112     | 101 | ---      | --- | ---       | --- |
| 18    | 61      | 58  | 121      | 117 | 104      | 97  | 115     | 109 | ---      | --- | 100       | 96  |
| 19    | 68      | 62  | 117      | 110 | 104      | 101 | 113     | 109 | ---      | --- | 97        | 90  |
| 20    | 75      | 68  | 112      | 108 | 103      | 100 | 112     | 109 | ---      | --- | 102       | 91  |
| 21    | 79      | 72  | 112      | 107 | 117      | 106 | 114     | 108 | 117      | 111 | 120       | 98  |
| 22    | 84      | 79  | 125      | 93  | 123      | 117 | 118     | 111 | 121      | 114 | 127       | 118 |
| 23    | 88      | 82  | 124      | 64  | 130      | 124 | 118     | 108 | 124      | 120 | 176       | 112 |
| 24    | 89      | 84  | 81       | 66  | 136      | 130 | ---     | --- | 124      | 120 | 118       | 109 |
| 25    | 92      | 88  | 85       | 81  | 127      | 115 | 128     | 123 | 125      | 120 | 111       | 97  |
| 26    | 95      | 90  | 90       | 82  | 114      | 101 | 130     | 125 | 132      | 120 | 106       | 94  |
| 27    | 100     | 93  | 95       | 87  | 107      | 97  | 127     | 124 | 133      | 125 | ---       | --- |
| 28    | 111     | 97  | 90       | 82  | 116      | 105 | 134     | 126 | 138      | 124 | 122       | 114 |
| 29    | 111     | 107 | 83       | 80  | 118      | 112 | 133     | 124 | 150      | 139 | 127       | 118 |
| 30    | 113     | 106 | 80       | 70  | 116      | 112 | 128     | 118 | 149      | 138 | 131       | 123 |
| 31    | ---     | --- | 78       | 71  | ---      | --- | 116     | 114 | 137      | 133 | ---       | --- |
| MONTH | 113     | 46  | 129      | 64  | 136      | 76  | 134     | 48  | ---      | --- | 176       | 86  |



02490193 PEARL RIVER AT POOLS BLUFF, NEAR BOGALUSA, LA--Continued

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

| DAY     | MAX | MIN      | MAX | MIN      | MAX | MIN     | MAX | MIN      | MAX | MIN       | MAX | MIN |
|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|-----|
| OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |     |
| 1       | --- | ---      | 6.2 | 6.0      | 5.9 | 5.8     | 6.5 | 6.3      | 6.6 | 6.4       | 6.2 | 6.1 |
| 2       | --- | ---      | 6.3 | 6.1      | 6.0 | 5.8     | 6.5 | 6.2      | 6.6 | 6.3       | 6.2 | 6.1 |
| 3       | --- | ---      | 6.4 | 6.2      | 6.0 | 6.0     | 6.5 | 6.2      | 6.5 | 6.3       | 6.3 | 6.1 |
| 4       | --- | ---      | 6.5 | 6.3      | 6.1 | 6.0     | 6.6 | 6.4      | 6.3 | 6.2       | 6.2 | 6.0 |
| 5       | --- | ---      | 6.5 | 6.4      | 6.1 | 6.0     | 6.5 | 6.4      | 6.3 | 6.2       | 6.3 | 6.0 |
| 6       | --- | ---      | 6.6 | 6.5      | 6.1 | 6.1     | 6.5 | 6.4      | 6.3 | 5.8       | 6.4 | 6.0 |
| 7       | --- | ---      | 6.6 | 6.5      | 6.1 | 6.1     | 6.5 | 6.4      | 6.0 | 5.9       | 6.0 | 5.6 |
| 8       | --- | ---      | 6.5 | 6.5      | 6.2 | 6.1     | 6.6 | 6.4      | 6.1 | 5.9       | 5.6 | 5.5 |
| 9       | --- | ---      | 6.5 | 6.4      | 6.2 | 6.2     | 6.6 | 6.5      | 6.0 | 5.8       | 5.6 | 5.5 |
| 10      | --- | ---      | 6.5 | 6.4      | 6.3 | 6.2     | 6.5 | 6.4      | 5.8 | 4.8       | 5.6 | 5.6 |
| 11      | --- | ---      | 6.5 | 6.4      | 6.3 | 6.2     | 6.7 | 6.5      | --- | ---       | 5.7 | 5.6 |
| 12      | --- | ---      | 6.6 | 6.4      | 6.2 | 6.1     | 6.8 | 6.6      | 5.4 | 5.3       | 5.7 | 5.6 |
| 13      | --- | ---      | 6.6 | 6.5      | 6.1 | 6.1     | 6.8 | 6.6      | 5.5 | 5.4       | 5.8 | 5.7 |
| 14      | --- | ---      | 6.5 | 6.4      | 6.1 | 6.0     | 6.7 | 6.6      | 5.6 | 5.5       | 5.9 | 5.7 |
| 15      | --- | ---      | 6.5 | 6.4      | 6.1 | 6.0     | --- | ---      | 5.7 | 5.6       | 5.9 | 5.8 |
| 16      | --- | ---      | 6.4 | 6.4      | 6.2 | 6.0     | 6.5 | 6.3      | 5.8 | 5.7       | 5.9 | 5.8 |
| 17      | --- | ---      | 6.4 | 6.3      | 6.3 | 6.1     | 6.6 | 6.4      | 5.8 | 5.7       | 5.9 | 5.8 |
| 18      | --- | ---      | 6.4 | 6.4      | 6.4 | 6.2     | 6.6 | 6.4      | 5.8 | 5.7       | 6.0 | 5.8 |
| 19      | --- | ---      | 6.5 | 6.4      | 6.4 | 6.3     | 6.6 | 6.4      | 5.9 | 5.7       | 6.1 | 5.9 |
| 20      | --- | ---      | 6.4 | 6.2      | 6.3 | 6.2     | 6.5 | 6.4      | 5.9 | 5.8       | 6.2 | 6.0 |
| 21      | --- | ---      | 6.2 | 6.0      | 6.3 | 6.2     | 6.4 | 6.3      | 6.0 | 5.9       | 6.1 | 6.0 |
| 22      | --- | ---      | 6.1 | 6.0      | 6.3 | 6.2     | 6.5 | 6.3      | 6.0 | 5.9       | 6.1 | 5.9 |
| 23      | --- | ---      | 6.1 | 6.0      | 6.3 | 6.2     | 6.6 | 6.4      | 6.0 | 5.9       | 6.2 | 6.0 |
| 24      | --- | ---      | 6.0 | 6.0      | 6.3 | 6.2     | 6.6 | 6.4      | 6.2 | 6.0       | 6.0 | 5.9 |
| 25      | --- | ---      | 6.1 | 6.0      | 6.2 | 6.1     | 6.6 | 6.4      | 6.3 | 6.1       | 6.1 | 6.0 |
| 26      | --- | ---      | 6.2 | 6.1      | 6.3 | 6.1     | 6.7 | 6.4      | 6.4 | 6.2       | 6.0 | 5.9 |
| 27      | --- | ---      | 6.0 | 5.8      | 6.3 | 6.2     | 6.8 | 6.5      | 6.4 | 6.2       | 6.0 | 5.9 |
| 28      | 6.2 | 6.0      | 5.8 | 5.4      | 6.3 | 6.1     | 7.0 | 6.5      | 6.4 | 6.2       | 6.0 | 5.9 |
| 29      | 6.4 | 6.2      | 6.1 | 5.4      | 6.4 | 6.2     | 6.7 | 6.5      | --- | ---       | 6.0 | 5.9 |
| 30      | 6.4 | 6.0      | 5.9 | 5.8      | 6.4 | 6.2     | 6.6 | 6.5      | --- | ---       | 5.9 | 5.5 |
| 31      | 6.1 | 6.0      | --- | ---      | 6.4 | 6.2     | 6.6 | 6.5      | --- | ---       | 5.7 | 5.6 |
| MONTH   | --- | ---      | 6.6 | 5.4      | 6.4 | 5.8     | 7.0 | 6.2      | 6.6 | 4.8       | 6.4 | 5.5 |
| DAY     | MAX | MIN      | MAX | MIN      | MAX | MIN     | MAX | MIN      | MAX | MIN       | MAX | MIN |
| APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |     |
| 1       | 5.6 | 5.5      | 6.6 | 6.4      | 5.9 | 5.8     | 6.1 | 6.0      | 6.3 | 6.2       | --- | --- |
| 2       | 5.6 | 5.5      | 6.6 | 6.5      | 5.9 | 5.8     | 6.0 | 6.0      | 6.3 | 6.1       | --- | --- |
| 3       | 5.5 | 5.4      | 6.6 | 6.4      | 5.9 | 5.9     | 6.1 | 6.0      | 6.1 | 6.0       | --- | --- |
| 4       | 5.5 | 5.5      | 6.5 | 6.4      | 6.2 | 5.9     | 6.2 | 5.6      | 6.1 | 6.0       | --- | --- |
| 5       | 5.6 | 5.5      | 6.4 | 6.4      | 6.1 | 6.0     | 5.6 | 5.3      | 6.0 | 6.0       | 6.4 | 6.2 |
| 6       | 5.6 | 5.5      | 6.4 | 6.3      | 6.1 | 6.0     | 5.5 | 5.4      | 6.0 | 6.0       | 6.4 | 6.2 |
| 7       | 5.6 | 5.5      | 6.3 | 6.3      | 6.0 | 5.9     | 5.6 | 5.5      | 6.2 | 5.1       | 6.3 | 6.1 |
| 8       | 5.6 | 5.6      | 6.4 | 6.3      | 6.0 | 6.0     | 5.8 | 5.6      | 6.3 | 6.2       | 6.2 | 6.1 |
| 9       | 5.6 | 5.5      | 6.4 | 6.3      | 6.0 | 5.9     | 5.9 | 5.7      | 6.4 | 6.2       | 6.3 | 6.1 |
| 10      | 5.6 | 5.6      | 6.3 | 6.2      | 6.0 | 5.9     | 6.0 | 5.9      | 6.4 | 6.2       | 6.6 | 6.2 |
| 11      | 5.6 | 5.5      | 6.4 | 6.2      | --- | ---     | 6.1 | 6.0      | 6.4 | 6.3       | --- | --- |
| 12      | 5.6 | 5.6      | 6.4 | 6.2      | 6.3 | 6.2     | 6.3 | 6.1      | 6.4 | 6.3       | --- | --- |
| 13      | 5.6 | 5.6      | 6.4 | 6.2      | 6.3 | 6.2     | 6.3 | 6.2      | 6.4 | 6.2       | --- | --- |
| 14      | 5.6 | 5.6      | 6.3 | 6.2      | 6.3 | 6.2     | 6.3 | 6.2      | 6.3 | 6.2       | --- | --- |
| 15      | 5.6 | 5.6      | 6.4 | 6.2      | 6.4 | 6.2     | 6.2 | 6.1      | 6.2 | 6.1       | --- | --- |
| 16      | 5.7 | 5.6      | 6.4 | 6.3      | 6.3 | 6.2     | 6.4 | 6.1      | 6.2 | 6.0       | --- | --- |
| 17      | 5.7 | 5.6      | 6.4 | 6.3      | 6.4 | 6.1     | 6.2 | 6.1      | 6.1 | 6.0       | --- | --- |
| 18      | 5.7 | 5.7      | 6.6 | 6.4      | 6.3 | 6.2     | 6.1 | 6.1      | 6.1 | 5.9       | --- | --- |
| 19      | 5.8 | 5.7      | 6.7 | 6.6      | 6.3 | 6.1     | 6.2 | 6.1      | 6.1 | 5.9       | --- | --- |
| 20      | 5.8 | 5.7      | 6.8 | 6.6      | 6.2 | 6.1     | 6.2 | 6.2      | 6.1 | 5.7       | --- | --- |
| 21      | 5.9 | 5.8      | 7.1 | 6.6      | 6.2 | 6.0     | 6.2 | 6.1      | 6.1 | 5.9       | --- | --- |
| 22      | 6.0 | 5.9      | 6.8 | 6.5      | 6.2 | 6.1     | 6.2 | 6.1      | 6.1 | 5.9       | --- | --- |
| 23      | 6.2 | 6.0      | 6.5 | 5.9      | 6.2 | 6.1     | 6.3 | 6.2      | 6.2 | 5.9       | --- | --- |
| 24      | 6.3 | 6.2      | 6.0 | 5.8      | 6.2 | 6.0     | 6.4 | 6.2      | 6.0 | 5.9       | --- | --- |
| 25      | 6.3 | 6.3      | 6.1 | 6.0      | 6.1 | 6.0     | 6.4 | 6.3      | 6.1 | 5.8       | --- | --- |
| 26      | 6.4 | 6.3      | 6.2 | 6.1      | 6.1 | 5.9     | 6.3 | 6.3      | 5.9 | 5.7       | 7.3 | 6.8 |
| 27      | 6.5 | 6.2      | 6.3 | 6.1      | 6.1 | 5.9     | 6.3 | 6.3      | 5.9 | 5.7       | --- | --- |
| 28      | 6.5 | 6.3      | 6.2 | 6.1      | 6.1 | 5.9     | 6.3 | 6.2      | --- | ---       | 7.3 | 6.9 |
| 29      | 6.4 | 6.4      | 6.2 | 6.1      | 6.0 | 5.9     | 6.3 | 6.2      | --- | ---       | 7.2 | 6.7 |
| 30      | 6.6 | 6.4      | 6.1 | 5.9      | 6.0 | 6.0     | 6.3 | 6.2      | --- | ---       | 7.2 | 6.6 |
| 31      | --- | ---      | 5.9 | 5.8      | --- | ---     | 6.3 | 6.2      | --- | ---       | --- | --- |
| MONTH   | 6.6 | 5.4      | 7.1 | 5.8      | 6.4 | 5.8     | 6.4 | 5.3      | 6.4 | 5.1       | --- | --- |

02490193 PEARL RIVER AT POOLS BLUFF, NEAR BOGALUSA, LA--Continued

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

| DAY   | MAX     | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN  |
|-------|---------|------|----------|------|----------|------|---------|------|----------|------|-----------|------|
|       | OCTOBER |      | NOVEMBER |      | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH     |      |
| 1     | ---     | ---  | 16.5     | 15.5 | 11.0     | 10.0 | 10.5    | 9.0  | 12.5     | 12.0 | 16.5      | 16.0 |
| 2     | ---     | ---  | 16.5     | 15.5 | 12.0     | 11.0 | 10.5    | 9.0  | 12.0     | 10.5 | 16.5      | 15.5 |
| 3     | ---     | ---  | 17.0     | 16.0 | 12.0     | 11.5 | 10.5    | 9.0  | 10.5     | 9.5  | 16.0      | 15.5 |
| 4     | ---     | ---  | 17.5     | 16.5 | 12.0     | 11.0 | 10.5    | 9.5  | 9.5      | 9.0  | 16.5      | 16.0 |
| 5     | ---     | ---  | 17.5     | 16.5 | 12.5     | 11.0 | 10.0    | 9.0  | 9.0      | 8.0  | 17.0      | 15.5 |
| 6     | ---     | ---  | 17.0     | 16.0 | 13.0     | 12.0 | 10.0    | 9.0  | 8.5      | 8.0  | 16.5      | 15.5 |
| 7     | ---     | ---  | 17.5     | 16.0 | 14.0     | 13.0 | 10.5    | 9.0  | 8.5      | 8.0  | 15.5      | 15.0 |
| 8     | ---     | ---  | 18.0     | 16.5 | 14.5     | 13.5 | 10.0    | 9.0  | 9.5      | 8.5  | 15.5      | 14.5 |
| 9     | ---     | ---  | 18.5     | 17.0 | 15.5     | 14.5 | 10.0    | 9.0  | 9.5      | 8.5  | 15.5      | 14.0 |
| 10    | ---     | ---  | 18.5     | 17.5 | 15.0     | 13.5 | 9.5     | 8.5  | ---      | ---  | 15.0      | 14.0 |
| 11    | ---     | ---  | 18.5     | 18.0 | 13.5     | 13.0 | 9.0     | 8.0  | ---      | ---  | 15.5      | 14.0 |
| 12    | ---     | ---  | 18.0     | 17.0 | 13.5     | 12.5 | 8.0     | 7.0  | 9.0      | 8.0  | 14.5      | 14.0 |
| 13    | ---     | ---  | 17.5     | 17.0 | 13.0     | 12.5 | 7.5     | 6.5  | 8.0      | 7.5  | 15.0      | 14.0 |
| 14    | ---     | ---  | 18.0     | 17.5 | 12.5     | 12.0 | 7.0     | 6.5  | 8.0      | 7.5  | 15.5      | 13.5 |
| 15    | ---     | ---  | 19.0     | 18.0 | 12.5     | 11.5 | 8.0     | 6.5  | 9.0      | 8.5  | 16.0      | 14.5 |
| 16    | ---     | ---  | 18.5     | 18.0 | 12.5     | 12.0 | 8.0     | 7.0  | 10.0     | 9.0  | 16.0      | 15.0 |
| 17    | ---     | ---  | 18.5     | 17.5 | 12.0     | 11.5 | 7.5     | 6.5  | 11.5     | 10.0 | 16.0      | 15.0 |
| 18    | ---     | ---  | 17.5     | 15.5 | 12.0     | 11.0 | 7.5     | 6.5  | 12.0     | 11.0 | 17.0      | 16.0 |
| 19    | ---     | ---  | 15.5     | 14.0 | 12.0     | 11.0 | 7.5     | 6.5  | 12.5     | 11.5 | 16.0      | 15.0 |
| 20    | ---     | ---  | 14.0     | 13.5 | 11.5     | 10.0 | 7.5     | 7.0  | 14.0     | 12.5 | 16.0      | 14.5 |
| 21    | ---     | ---  | 13.5     | 12.5 | 10.0     | 9.5  | 7.5     | 7.5  | 13.5     | 13.0 | 15.5      | 15.0 |
| 22    | ---     | ---  | 13.0     | 12.5 | 9.5      | 9.0  | 8.0     | 7.5  | 14.5     | 13.5 | 16.5      | 15.0 |
| 23    | ---     | ---  | 13.0     | 12.5 | 10.5     | 9.5  | 9.5     | 8.0  | 14.5     | 13.5 | 16.0      | 15.0 |
| 24    | ---     | ---  | 13.0     | 12.5 | 11.5     | 10.5 | 10.0    | 8.5  | 15.0     | 13.0 | 15.5      | 14.0 |
| 25    | ---     | ---  | 12.5     | 12.0 | 10.5     | 9.5  | 11.0    | 9.0  | 15.0     | 14.0 | 16.0      | 14.5 |
| 26    | ---     | ---  | 12.0     | 11.0 | 9.5      | 9.0  | 11.5    | 10.0 | 15.5     | 14.0 | 16.0      | 14.5 |
| 27    | ---     | ---  | 11.0     | 10.5 | 9.5      | 9.0  | 12.0    | 10.5 | 16.0     | 14.5 | 16.5      | 15.0 |
| 28    | 20.0    | 19.5 | 10.5     | 10.0 | 9.5      | 8.5  | 12.5    | 11.0 | 16.0     | 15.0 | 17.0      | 16.0 |
| 29    | 19.5    | 17.5 | 10.5     | 9.5  | 10.0     | 9.0  | 12.0    | 11.0 | ---      | ---  | 17.5      | 16.5 |
| 30    | 17.5    | 16.5 | 11.0     | 10.0 | 10.0     | 9.0  | 12.5    | 11.5 | ---      | ---  | 19.5      | 17.5 |
| 31    | 17.0    | 16.0 | ---      | ---  | 10.0     | 9.0  | 12.0    | 11.5 | ---      | ---  | 19.0      | 18.5 |
| MONTH | ---     | ---  | 19.0     | 9.5  | 15.5     | 8.5  | 12.5    | 6.5  | 16.0     | 7.5  | 19.5      | 13.5 |
| DAY   | MAX     | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN  |
|       | APRIL   |      | MAY      |      | JUNE     |      | JULY    |      | AUGUST   |      | SEPTEMBER |      |
| 1     | 19.5    | 19.0 | 25.5     | 24.0 | 27.0     | 27.0 | 29.5    | 28.5 | 32.0     | 30.5 | 30.0      | 29.0 |
| 2     | 19.0    | 18.0 | 25.5     | 24.0 | 28.0     | 26.5 | 28.0    | 27.0 | 31.5     | 30.5 | 29.5      | 28.5 |
| 3     | 19.5    | 19.0 | 25.0     | 23.5 | 27.0     | 26.5 | 27.0    | 26.0 | 31.0     | 29.5 | 29.0      | 28.0 |
| 4     | 20.5    | 19.5 | 24.5     | 24.0 | 27.5     | 26.0 | 27.0    | 25.5 | 31.5     | 30.0 | 28.5      | 27.5 |
| 5     | 21.0    | 20.0 | 24.0     | 23.5 | 26.5     | 26.5 | 25.5    | 25.0 | 31.5     | 30.5 | 28.5      | 27.5 |
| 6     | 20.0    | 19.0 | 23.5     | 23.0 | 27.0     | 26.5 | 26.0    | 25.0 | 31.5     | 30.5 | 29.0      | 27.5 |
| 7     | 20.0    | 19.0 | 23.0     | 22.0 | 27.5     | 26.5 | 26.5    | 25.5 | 32.0     | 30.5 | 29.0      | 28.0 |
| 8     | 20.0    | 19.0 | 23.5     | 21.5 | 28.5     | 27.0 | 27.5    | 26.0 | 31.5     | 30.5 | 29.0      | 28.0 |
| 9     | 20.5    | 19.5 | 24.0     | 22.5 | 29.5     | 27.5 | 29.0    | 27.5 | 31.5     | 30.0 | 29.0      | 27.5 |
| 10    | 21.0    | 19.5 | 24.5     | 23.0 | 30.0     | 29.0 | 30.0    | 28.5 | 31.5     | 30.0 | 28.5      | 27.0 |
| 11    | 21.0    | 20.0 | 24.5     | 22.5 | 29.0     | 28.0 | 30.0    | 29.0 | 31.5     | 30.0 | 28.0      | 26.5 |
| 12    | 21.5    | 20.5 | 25.0     | 22.5 | 28.5     | 27.5 | 30.0    | 29.0 | 32.5     | 30.5 | 28.5      | 26.5 |
| 13    | 22.0    | 21.0 | 25.5     | 23.0 | 29.5     | 28.0 | 31.0    | 29.5 | 32.0     | 31.0 | 28.5      | 27.5 |
| 14    | 22.5    | 21.0 | 25.5     | 24.0 | 29.5     | 28.5 | 31.5    | 30.0 | 32.5     | 31.0 | 28.5      | 27.5 |
| 15    | 23.0    | 21.5 | 25.5     | 24.0 | 30.0     | 29.0 | 31.5    | 30.5 | 32.5     | 31.0 | 28.0      | 27.5 |
| 16    | 23.0    | 22.0 | 24.5     | 24.0 | 30.5     | 29.5 | 32.0    | 31.0 | 32.0     | 31.0 | 28.0      | 27.0 |
| 17    | 23.5    | 22.5 | 25.5     | 23.5 | 30.5     | 29.5 | 32.5    | 31.0 | 31.5     | 30.5 | 27.5      | 26.0 |
| 18    | 23.5    | 22.5 | 26.0     | 24.5 | 31.0     | 29.5 | 32.5    | 31.5 | 31.5     | 30.0 | 26.0      | 24.5 |
| 19    | 24.0    | 23.0 | 27.0     | 25.5 | 31.5     | 30.0 | 33.0    | 31.5 | 31.0     | 30.0 | 25.0      | 23.5 |
| 20    | 24.5    | 23.5 | 26.0     | 24.5 | 31.5     | 30.0 | 33.0    | 32.0 | 30.5     | 29.5 | 24.5      | 22.5 |
| 21    | 25.0    | 24.0 | 25.0     | 23.0 | 32.0     | 30.5 | 33.0    | 31.5 | 30.5     | 29.5 | 25.0      | 23.0 |
| 22    | 25.5    | 24.5 | 24.5     | 23.0 | 32.0     | 30.5 | 33.5    | 31.5 | 30.5     | 29.0 | 25.5      | 23.0 |
| 23    | 25.0    | 24.0 | 24.5     | 23.0 | 31.5     | 30.0 | 33.5    | 32.0 | 30.0     | 29.0 | 24.0      | 22.0 |
| 24    | 24.0    | 23.5 | 24.0     | 22.5 | 30.0     | 29.0 | 33.5    | 32.0 | 30.0     | 28.5 | 26.5      | 24.5 |
| 25    | 23.5    | 22.5 | 24.5     | 23.5 | 29.0     | 28.0 | 33.0    | 32.0 | 30.5     | 28.5 | 26.5      | 25.0 |
| 26    | 23.5    | 22.0 | 25.0     | 23.5 | 29.5     | 27.5 | 32.5    | 31.5 | 31.0     | 29.0 | 26.5      | 25.0 |
| 27    | 24.0    | 22.5 | 25.5     | 24.0 | 30.0     | 28.0 | 31.5    | 30.5 | 30.5     | 29.5 | ---       | ---  |
| 28    | 24.0    | 23.0 | 26.0     | 25.0 | 30.5     | 28.5 | 32.5    | 30.5 | 30.5     | 29.5 | 27.0      | 25.5 |
| 29    | 25.0    | 23.5 | 27.0     | 25.5 | 30.0     | 29.5 | 32.0    | 30.5 | 29.5     | 29.0 | 27.0      | 25.5 |
| 30    | 25.5    | 24.0 | 27.0     | 26.0 | 30.5     | 29.0 | 31.5    | 30.0 | 30.0     | 29.0 | 27.0      | 25.5 |
| 31    | ---     | ---  | 28.0     | 26.5 | ---      | ---  | 32.0    | 30.0 | 30.5     | 29.0 | ---       | ---  |
| MONTH | 25.5    | 18.0 | 28.0     | 21.5 | 32.0     | 26.0 | 33.5    | 25.0 | 32.5     | 28.5 | 30.0      | 22.5 |

02490193 PEARL RIVER AT POOLS BLUFF, NEAR BOGALUSA, LA--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DAY | MAX     | MIN | MAX      | MIN | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN |
|-----|---------|-----|----------|-----|----------|------|---------|------|----------|------|-----------|-----|
|     | OCTOBER |     | NOVEMBER |     | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH     |     |
| 1   | ---     | --- | 6.2      | 5.7 | 8.8      | 8.5  | 11.9    | 11.6 | 11.0     | 10.1 | ---       | --- |
| 2   | ---     | --- | ---      | --- | ---      | ---  | 12.0    | 11.0 | 11.4     | 9.8  | ---       | --- |
| 3   | ---     | --- | ---      | --- | ---      | ---  | 12.0    | 11.0 | 11.7     | 10.8 | ---       | --- |
| 4   | ---     | --- | ---      | --- | ---      | ---  | 11.6    | 11.2 | 11.4     | 10.8 | ---       | --- |
| 5   | ---     | --- | 8.9      | 8.7 | 10.1     | 9.9  | 11.5    | 11.1 | 11.5     | 11.0 | ---       | --- |
| 6   | ---     | --- | 8.7      | 8.5 | ---      | ---  | 11.2    | 10.7 | 11.1     | 10.3 | ---       | --- |
| 7   | ---     | --- | 8.6      | 8.1 | ---      | ---  | 10.7    | 10.3 | ---      | ---  | ---       | --- |
| 8   | ---     | --- | 8.1      | 7.4 | ---      | ---  | 12.3    | 10.4 | ---      | ---  | ---       | --- |
| 9   | ---     | --- | 7.4      | 6.8 | ---      | ---  | 11.9    | 11.8 | ---      | ---  | ---       | --- |
| 10  | ---     | --- | 6.8      | 6.0 | ---      | ---  | 12.2    | 11.8 | ---      | ---  | 8.3       | 8.0 |
| 11  | ---     | --- | 6.0      | 5.4 | ---      | ---  | 12.7    | 12.2 | ---      | ---  | 8.3       | 8.0 |
| 12  | ---     | --- | 9.0      | 5.1 | 9.9      | 9.7  | 13.2    | 12.6 | ---      | ---  | 8.6       | 8.1 |
| 13  | ---     | --- | 8.7      | 8.2 | 9.8      | 9.4  | 13.5    | 13.0 | ---      | ---  | 8.3       | 7.9 |
| 14  | ---     | --- | 8.2      | 7.1 | 9.4      | 9.2  | 13.4    | 12.9 | ---      | ---  | ---       | --- |
| 15  | ---     | --- | 7.0      | 5.8 | 9.2      | 9.0  | 12.8    | 12.5 | ---      | ---  | ---       | --- |
| 16  | ---     | --- | ---      | --- | 10.3     | 8.9  | 12.5    | 12.3 | ---      | ---  | ---       | --- |
| 17  | ---     | --- | ---      | --- | 10.4     | 10.3 | 12.6    | 12.2 | ---      | ---  | ---       | --- |
| 18  | ---     | --- | ---      | --- | 10.6     | 10.4 | 12.4    | 12.2 | ---      | ---  | ---       | --- |
| 19  | ---     | --- | ---      | --- | 10.5     | 10.4 | 12.4    | 12.0 | ---      | ---  | ---       | --- |
| 20  | ---     | --- | ---      | --- | 10.5     | 10.4 | ---     | ---  | 10.1     | 9.7  | 9.5       | 9.1 |
| 21  | ---     | --- | ---      | --- | 10.8     | 10.5 | ---     | ---  | 9.8      | 9.3  | 9.1       | 8.0 |
| 22  | ---     | --- | ---      | --- | 10.9     | 10.7 | ---     | ---  | 9.2      | 8.5  | 8.1       | 7.7 |
| 23  | ---     | --- | ---      | --- | 10.7     | 10.3 | 12.2    | 10.7 | 8.5      | 8.1  | ---       | --- |
| 24  | ---     | --- | ---      | --- | ---      | ---  | 11.7    | 11.0 | 8.4      | 8.0  | ---       | --- |
| 25  | ---     | --- | ---      | --- | ---      | ---  | 11.3    | 10.8 | 8.7      | 8.0  | ---       | --- |
| 26  | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | 8.8      | 8.2  | ---       | --- |
| 27  | ---     | --- | 9.5      | 9.4 | ---      | ---  | ---     | ---  | 9.1      | 8.6  | 9.2       | 8.5 |
| 28  | 7.3     | 6.3 | 9.4      | 9.1 | ---      | ---  | ---     | ---  | 8.9      | 8.3  | 8.6       | 7.5 |
| 29  | 8.0     | 7.3 | 9.2      | 9.0 | ---      | ---  | ---     | ---  | ---      | ---  | ---       | --- |
| 30  | 7.7     | 6.8 | 9.1      | 8.8 | ---      | ---  | 11.5    | 11.2 | ---      | ---  | ---       | --- |
| 31  | 6.8     | 6.2 | ---      | --- | ---      | ---  | 11.5    | 11.0 | ---      | ---  | ---       | --- |
|     | APRIL   |     | MAY      |     | JUNE     |      | JULY    |      | AUGUST   |      | SEPTEMBER |     |
| 1   | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | 3.9      | 3.5  | ---       | --- |
| 2   | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | 5.0      | 3.4  | ---       | --- |
| 3   | 7.1     | 5.1 | ---      | --- | ---      | ---  | ---     | ---  | ---      | ---  | ---       | --- |
| 4   | 6.8     | 5.9 | ---      | --- | ---      | ---  | ---     | ---  | ---      | ---  | ---       | --- |
| 5   | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | ---      | ---  | 8.1       | 6.9 |
| 6   | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | ---      | ---  | 7.6       | 6.4 |
| 7   | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | ---      | ---  | ---       | --- |
| 8   | ---     | --- | ---      | --- | ---      | ---  | 6.5     | 5.6  | ---      | ---  | ---       | --- |
| 9   | ---     | --- | ---      | --- | ---      | ---  | 5.9     | 5.2  | ---      | ---  | ---       | --- |
| 10  | 6.8     | 6.3 | ---      | --- | ---      | ---  | ---     | ---  | ---      | ---  | ---       | --- |
| 11  | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | ---      | ---  | ---       | --- |
| 12  | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | ---      | ---  | 9.0       | 7.3 |
| 13  | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | ---      | ---  | 8.5       | 6.5 |
| 14  | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | 7.9      | 6.6  | 6.8       | 5.6 |
| 15  | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | 8.3      | 6.4  | 6.5       | 5.5 |
| 16  | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | 8.0      | 6.3  | 6.8       | 5.6 |
| 17  | 6.2     | 5.6 | ---      | --- | ---      | ---  | ---     | ---  | 7.8      | 6.2  | 7.1       | 5.2 |
| 18  | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | 7.8      | 6.4  | ---       | --- |
| 19  | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | 7.8      | ---  | 7.6       | 6.0 |
| 20  | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | ---      | ---  | 6.8       | 5.7 |
| 21  | ---     | --- | 8.2      | 7.1 | ---      | ---  | ---     | ---  | ---      | ---  | ---       | --- |
| 22  | ---     | --- | 7.4      | 4.1 | ---      | ---  | ---     | ---  | ---      | ---  | ---       | --- |
| 23  | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | ---      | ---  | ---       | --- |
| 24  | 7.2     | 6.5 | ---      | --- | ---      | ---  | ---     | ---  | ---      | ---  | ---       | --- |
| 25  | ---     | --- | ---      | --- | ---      | ---  | 5.2     | 4.4  | ---      | ---  | ---       | --- |
| 26  | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | ---      | ---  | 8.2       | 5.9 |
| 27  | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | ---      | ---  | ---       | --- |
| 28  | ---     | --- | 6.6      | 5.8 | ---      | ---  | ---     | ---  | 6.3      | 4.3  | ---       | --- |
| 29  | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | ---      | ---  | ---       | --- |
| 30  | ---     | --- | ---      | --- | ---      | ---  | ---     | ---  | ---      | ---  | ---       | --- |
| 31  | ---     | --- | ---      | --- | ---      | ---  | 5.3     | 3.8  | ---      | ---  | ---       | --- |

## 02490500 BOGUE CHITTO NEAR TYLERTOWN, MS

LOCATION.--Lat 31°10'37", long 90°16'48", in SE1/4SE1/4 sec.34, T.3 N., R.9 E., Washington meridian, Pike County, Hydrologic Unit 03180005, near right bank on downstream side of bridge on U.S. Highway 98, 0.2 mi (0.3 km) upstream from Fernwood, Columbia and Gulf Railroad bridge, 0.2 mi (0.3 km) upstream from Bars Branch, 2.2 mi (3.5 km) downstream from Topisaw Creek, and 9 mi (14 km) northwest of Tylertown.

DRAINAGE AREA.--492 mi<sup>2</sup> (1,270 km<sup>2</sup>), revised.

PERIOD OF RECORD.--August 1944 to current year.

REVISED RECORDS.--WSP 1504: 1945(P), 1946(M), 1947-51, 1953.

GAGE.--Water-stage recorder. Datum of gage is 227.40 ft (69.312 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--36 years (water years 1945-80), 805 ft<sup>3</sup>/s (22.80 m<sup>3</sup>/s), 22.22 in/yr (564 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,700 ft<sup>3</sup>/s (1,290 m<sup>3</sup>/s) Jan. 7, 1950, gage height, 33.50 ft (10.211 m); minimum, 175 ft<sup>3</sup>/s (4.96 m<sup>3</sup>/s) Oct. 31, 1963; minimum gage height, 6.08 ft (1.853 m), part of each day Oct. 13-22, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in February 1936 reached a stage 1.2 ft (0.37 m) higher than the flood of Jan. 7, 1950, at the railroad bridge 0.2 mi (0.3 m) downstream.

EXTREMES FOR CURRENT YEAR.--Water year 1980: Peak discharges above base of 6,000 ft<sup>3</sup>/s (170 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Feb. 11 | 2130 | 8210 232                                              | 17.21 5.246             | Apr. 13 | 1800 | 24200 685                                             | 26.90 8.199             |
| Mar. 28 | 1600 | *26900 762                                            | 28.05 8.550             | May 17  | 1530 | 9080 257                                              | 18.07 5.508             |
| Mar. 30 | 0100 | 26500 750                                             | 28.14 8.577             |         |      |                                                       |                         |

Minimum discharge, 278 ft<sup>3</sup>/s (7.87 m<sup>3</sup>/s) part of each day Oct. 14-22, 26-31, minimum gage height, 6.30 ft (1.920 m), Sept. 16 and 17.

NOTE.--Records for the 1981 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR    | APR   | MAY   | JUN   | JUL   | AUG  | SEP  |
|-------|------|-------|-------|-------|-------|--------|-------|-------|-------|-------|------|------|
| 1     | 306  | 309   | 480   | 443   | 1380  | 578    | 4860  | 546   | 511   | 364   | 335  | 313  |
| 2     | 303  | 345   | 432   | 422   | 1010  | 623    | 2760  | 539   | 494   | 361   | 333  | 343  |
| 3     | 295  | 306   | 404   | 404   | 769   | 578    | 2760  | 792   | 481   | 361   | 335  | 330  |
| 4     | 293  | 290   | 384   | 390   | 662   | 522    | 2410  | 814   | 472   | 352   | 338  | 335  |
| 5     | 290  | 288   | 375   | 381   | 606   | 522    | 1610  | 616   | 463   | 346   | 333  | 318  |
| 6     | 288  | 285   | 369   | 375   | 599   | 518    | 1170  | 539   | 451   | 343   | 335  | 315  |
| 7     | 288  | 288   | 363   | 369   | 620   | 550    | 1050  | 504   | 442   | 364   | 328  | 325  |
| 8     | 285  | 288   | 354   | 372   | 599   | 846    | 1350  | 494   | 436   | 442   | 323  | 320  |
| 9     | 285  | 293   | 342   | 625   | 2920  | 1080   | 1550  | 475   | 430   | 472   | 318  | 323  |
| 10    | 283  | 408   | 339   | 630   | 6230  | 783    | 1240  | 466   | 428   | 460   | 315  | 310  |
| 11    | 283  | 552   | 336   | 2360  | 7230  | 630    | 930   | 448   | 422   | 379   | 315  | 303  |
| 12    | 283  | 422   | 333   | 3660  | 5380  | 567    | 11200 | 433   | 418   | 358   | 320  | 298  |
| 13    | 283  | 333   | 693   | 2710  | 2290  | 536    | 21800 | 427   | 415   | 349   | 328  | 295  |
| 14    | 280  | 303   | 2250  | 2420  | 1210  | 504    | 17000 | 424   | 412   | 340   | 325  | 295  |
| 15    | 278  | 293   | 2290  | 1120  | 970   | 478    | 7450  | 529   | 408   | 335   | 325  | 295  |
| 16    | 278  | 290   | 2320  | 1200  | 846   | 466    | 3740  | 4570  | 405   | 340   | 320  | 293  |
| 17    | 278  | 288   | 1210  | 3630  | 756   | 1250   | 1800  | 8240  | 402   | 338   | 330  | 295  |
| 18    | 278  | 288   | 715   | 3840  | 679   | 3020   | 1360  | 5680  | 400   | 343   | 315  | 300  |
| 19    | 278  | 293   | 572   | 3080  | 627   | 2370   | 1920  | 4480  | 398   | 352   | 313  | 318  |
| 20    | 280  | 295   | 504   | 2030  | 599   | 1490   | 1380  | 4120  | 406   | 338   | 310  | 318  |
| 21    | 280  | 295   | 460   | 1090  | 578   | 2850   | 1050  | 3240  | 394   | 349   | 308  | 303  |
| 22    | 280  | 309   | 453   | 930   | 557   | 2880   | 865   | 2410  | 394   | 373   | 310  | 298  |
| 23    | 283  | 657   | 580   | 2550  | 536   | 2330   | 760   | 1570  | 424   | 373   | 308  | 298  |
| 24    | 283  | 1430  | 1400  | 2740  | 515   | 1380   | 688   | 1310  | 472   | 391   | 298  | 310  |
| 25    | 283  | 2260  | 1980  | 2690  | 494   | 1480   | 654   | 960   | 433   | 388   | 295  | 303  |
| 26    | 280  | 3000  | 1620  | 1810  | 475   | 1230   | 1030  | 801   | 418   | 355   | 295  | 303  |
| 27    | 278  | 2440  | 905   | 1640  | 466   | 4130   | 819   | 697   | 400   | 397   | 298  | 298  |
| 28    | 278  | 2350  | 657   | 1290  | 460   | 22100  | 810   | 627   | 385   | 412   | 300  | 300  |
| 29    | 280  | 900   | 556   | 935   | 460   | 21900  | 630   | 585   | 376   | 370   | 315  | 300  |
| 30    | 280  | 572   | 500   | 774   | ---   | 20800  | 574   | 553   | 370   | 346   | 305  | 376  |
| 31    | 298  | ---   | 468   | 1160  | ---   | 8610   | ---   | 529   | ---   | 340   | 308  | ---  |
| TOTAL | 8818 | 20670 | 24644 | 48070 | 40523 | 107601 | 97220 | 48418 | 12760 | 11431 | 9834 | 9331 |
| MEAN  | 284  | 689   | 795   | 1551  | 1397  | 3471   | 3241  | 1562  | 425   | 369   | 317  | 311  |
| MAX   | 306  | 3000  | 2320  | 3840  | 7230  | 22100  | 21800 | 8240  | 511   | 472   | 338  | 376  |
| MIN   | 278  | 285   | 333   | 369   | 460   | 466    | 574   | 424   | 370   | 335   | 295  | 293  |
| CFSM  | .58  | 1.40  | 1.62  | 3.15  | 2.84  | 7.06   | 6.59  | 3.18  | .86   | .75   | .64  | .63  |
| IN.   | .67  | 1.56  | 1.86  | 3.63  | 3.06  | 8.14   | 7.35  | 3.66  | .96   | .86   | .74  | .71  |

| CAL YR 1979 | TOTAL | 352057 | MEAN | 965  | MAX | 10800 | MIN | 278 | CFSM | 1.96 | IN | 26.62 |
|-------------|-------|--------|------|------|-----|-------|-----|-----|------|------|----|-------|
| WTR YR 1980 | TOTAL | 439320 | MEAN | 1200 | MAX | 22100 | MIN | 278 | CFSM | 2.44 | IN | 33.22 |

## PEARL RIVER BASIN

02491500 BOGUE CHITTO AT FRANKLINTON, LA

LOCATION.--Lat 30°50'35", long 90°09'45", in SE1/4SE1/4 sec. 26, T. 2 S., R. 10 E., Washington Parish, Hydrologic Unit 03180005, at bridge on State Highway 10, 0.8 mi (1.3 km) west of Franklinton, and 3.5 mi (5.6 km) upstream from Lawrence Creek.

DRAINAGE AREA.--990 mi<sup>2</sup> (2,564 km<sup>2</sup>), revised.

PERIOD OF RECORD.--August 1928 to September 1931, October 1938 to September 1957. February to September 1975, July 1976 to current year (gage heights and discharge measurements). Gage-height records collected in this vicinity since 1922 are contained in reports of the National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 123.81 ft (37.737 m) National Geodetic Vertical Datum of 1929. August 1928 to September 1931, nonrecording gage at site about 0.2 mi (0.3 km) downstream at datum 2.00 ft (0.610 m) higher. October 1938 to June 22, 1939, nonrecording gage; June 23, 1939, to September 1957 and February to September 1975, water-stage recorder at present site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--22 years (water years 1929-31, 1939-57), 1,596 ft<sup>3</sup>/s (45.20 m<sup>3</sup>/s), 22.00 in/vr (559 mm/vr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 56,700 ft<sup>3</sup>/s (1,610 m<sup>3</sup>/s) Mar. 30, 1980, gage height, observed at crest, 20.55 ft (6.264 m) Mar. 30, 1980; minimum discharge, 350 ft<sup>3</sup>/s (9.91 m<sup>3</sup>/s) Nov. 6-8, 1938; minimum gage height, not determined.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1900 reached a stage of 29.6 ft (9.02 m), at former site and present datum, from floodmark.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.12 ft (2.170 m) June 25; minimum, 0.94 ft (0.287 m) Sept. 27, 28, 29, 30.

GAGE HEIGHT (FEET ABOVE DATUM). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
INSTANTANEOUS OBSERVATIONS AT 0800

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL | AUG | SEP  |
|------|------|------|------|------|------|------|------|------|------|-----|-----|------|
| 1    | 2.01 | 2.14 | 2.34 | 1.87 | 1.84 | 1.92 | 4.64 | 1.45 | 1.64 | --- | --- | ---  |
| 2    | 1.98 | 1.97 | 2.21 | 1.86 | 2.72 | 1.91 | 5.89 | 1.43 | 1.75 | --- | --- | ---  |
| 3    | 1.88 | 1.91 | 2.11 | 1.85 | 2.35 | 1.88 | 4.46 | 1.40 | 3.06 | --- | --- | ---  |
| 4    | 1.77 | 1.85 | 2.03 | 1.85 | 2.26 | 1.86 | 3.11 | 1.37 | 2.79 | --- | --- | 1.92 |
| 5    | 1.71 | 1.81 | 1.99 | 1.84 | 2.16 | 2.80 | 2.57 | 1.48 | 2.20 | --- | --- | 1.66 |
| 6    | 1.68 | 1.77 | 1.96 | 1.82 | 2.69 | 4.57 | 2.29 | 1.65 | 2.12 | --- | --- | 1.40 |
| 7    | 1.66 | 1.75 | 1.94 | 1.97 | 2.98 | 4.89 | 2.11 | 1.58 | 2.17 | --- | --- | 1.27 |
| 8    | 1.66 | 1.74 | 1.91 | 2.05 | 3.16 | 5.50 | 2.01 | 1.74 | 1.99 | --- | --- | 1.15 |
| 9    | 1.66 | 1.74 | 1.91 | 2.02 | 2.96 | 3.21 | 1.91 | 1.59 | 2.00 | --- | --- | 1.08 |
| 10   | 1.66 | 1.74 | 3.48 | 2.00 | 3.79 | 2.57 | 1.82 | 1.53 | 1.77 | --- | --- | 1.04 |
| 11   | 1.64 | 1.73 | 4.70 | 1.92 | 6.71 | 2.34 | 1.75 | 1.51 | 1.62 | --- | --- | 1.01 |
| 12   | 1.63 | 1.71 | 4.26 | 1.87 | 5.10 | 2.21 | 1.71 | 1.46 | 2.16 | --- | --- | .99  |
| 13   | 1.61 | 1.70 | 3.43 | 1.84 | 4.23 | 2.12 | 1.65 | 1.40 | 1.83 | --- | --- | .98  |
| 14   | 1.61 | 1.70 | 2.69 | 1.84 | 3.28 | 2.05 | 1.61 | 1.39 | 2.06 | --- | --- | 1.01 |
| 15   | 1.61 | 1.80 | 2.44 | 1.84 | 2.83 | 2.01 | 1.56 | 1.41 | 2.67 | --- | --- | 1.22 |
| 16   | 1.60 | 1.92 | 2.31 | 1.84 | 2.69 | 1.95 | 1.52 | 1.39 | 2.03 | --- | --- | 2.03 |
| 17   | 1.60 | 1.88 | 2.21 | 1.83 | 2.68 | 1.94 | 1.49 | 1.44 | 1.67 | --- | --- | 1.78 |
| 18   | 1.66 | 2.16 | 2.12 | 1.81 | 2.57 | 1.90 | 1.46 | 1.44 | 1.51 | --- | --- | 1.54 |
| 19   | 2.24 | 2.02 | 2.07 | 1.80 | 2.49 | 1.85 | 1.45 | 1.41 | 1.42 | --- | --- | 1.30 |
| 20   | 2.01 | 1.96 | 2.03 | 1.82 | 2.39 | 1.81 | 1.41 | 1.38 | 1.39 | --- | --- | 1.14 |
| 21   | 1.87 | 1.86 | 2.01 | 1.97 | 2.29 | 1.78 | 1.38 | 1.34 | 1.32 | --- | --- | 1.07 |
| 22   | 1.80 | 1.81 | 2.01 | 1.96 | 2.24 | 2.26 | 1.37 | 1.32 | 1.29 | --- | --- | 1.04 |
| 23   | 1.73 | 2.19 | 1.96 | 1.95 | 2.18 | 2.85 | 1.35 | 1.32 | 1.26 | --- | --- | 1.01 |
| 24   | 1.76 | 2.53 | 1.97 | 1.91 | 2.10 | 3.08 | 1.57 | 1.30 | 1.76 | --- | --- | .99  |
| 25   | 1.76 | 2.89 | 2.07 | 1.88 | 2.05 | 2.54 | 1.58 | 1.28 | 1.33 | --- | --- | .97  |
| 26   | 1.68 | 2.97 | 1.98 | 1.87 | 2.01 | 2.22 | 1.90 | 2.10 | 1.93 | --- | --- | .96  |
| 27   | 1.68 | 4.51 | 1.95 | 1.87 | 1.98 | 2.07 | 1.68 | 2.06 | 1.47 | --- | --- | .95  |
| 28   | 1.99 | 3.65 | 1.94 | 1.85 | 1.94 | 1.97 | 1.52 | 2.68 | ---  | --- | --- | .94  |
| 29   | 3.24 | 3.32 | 1.91 | 1.84 | ---  | 1.92 | 1.49 | 3.09 | ---  | --- | --- | .94  |
| 30   | 2.51 | 2.61 | 1.90 | 1.83 | ---  | 3.09 | 1.46 | 2.59 | ---  | --- | --- | .94  |
| 31   | 2.65 | ---  | 1.88 | 1.83 | ---  | 5.69 | ---  | 1.84 | ---  | --- | --- | ---  |
| MEAN | 1.86 | 2.18 | 2.31 | 1.88 | 2.81 | 2.61 | 2.06 | 1.62 | ---  | --- | --- | ---  |
| MAX  | 3.24 | 4.51 | 4.70 | 2.05 | 6.71 | 5.69 | 5.89 | 3.09 | 3.06 | --- | --- | ---  |
| MIN  | 1.60 | 1.70 | 1.88 | 1.80 | 1.84 | 1.78 | 1.35 | 1.28 | ---  | --- | --- | .94  |



02492000 BOGUE CHITTO NEAR BUSH, LA  
(National stream-quality accounting network station)

LOCATION.--Lat 30°37'45", long 89°53'50", in SE1/4NE1/4 lot 42, T. 5 S., R. 13 E., St. Tammany Parish, Hydrologic Unit 0381005, near center of span on downstream side of bridge on State Highway 21, 0.2 mi (0.3 km) downstream from Gulf, Mobile, and Ohio Railroad bridge, and 1.4 mi (2.3 km) north of Bush.

DRAINAGE AREA.--1,213 mi<sup>2</sup> (3,142 km<sup>2</sup>), revised.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 44.25 ft (13.487 m) National Geodetic Vertical Datum of 1929 (levels by Corp of Engineers). Prior to July 22, 1954, nonrecording gage at same site and datum.

REMARKS.--Records good. Records of dissolved oxygen and water temperatures for the water year 1981 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--44 years, 1,927 ft<sup>3</sup>/s (54.57 m<sup>3</sup>/s), 21.57 in/yr (548 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57,400 ft<sup>3</sup>/s (1,630 m<sup>3</sup>/s) Mar. 31, 1980, gage height, 17.31 ft (5.276 m); minimum, 366 ft<sup>3</sup>/s (10.4 m<sup>3</sup>/s) Oct. 22, 23, 26, 29, 1968; minimum gage height, 0.7 ft (0.21 m) Oct. 1, 1937, Oct. 29-31, 1940, Oct. 22-27, 1941.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 11,000 ft<sup>3</sup>/s or 230 m<sup>3</sup>/s (revised) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|
| Feb. 11 | 2130 | *12200 346                                            | *11.27 3.435            |

Minimum discharge, 582 ft<sup>3</sup>/s (16.5 m<sup>3</sup>/s) Sept 30, gage height, 3.10 ft (0.945 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 993   | 1460  | 1400  | 963   | 918   | 1110  | 5390  | 824   | 1040  | 730   | 1060  | 1090  |
| 2     | 986   | 1060  | 1150  | 953   | 1260  | 1100  | 4860  | 814   | 1150  | 770   | 868   | 987   |
| 3     | 924   | 928   | 1050  | 941   | 1680  | 1070  | 5150  | 791   | 1240  | 2280  | 760   | 1060  |
| 4     | 848   | 860   | 1000  | 935   | 1420  | 1070  | 4320  | 776   | 2030  | 4570  | 711   | 1190  |
| 5     | 796   | 814   | 970   | 928   | 1300  | 1260  | 2690  | 831   | 1780  | 4420  | 695   | 1210  |
| 6     | 773   | 778   | 940   | 924   | 2300  | 2290  | 2030  | 999   | 1360  | 4450  | 714   | 1020  |
| 7     | 758   | 757   | 920   | 980   | 3580  | 3370  | 1710  | 976   | 1320  | 4480  | 728   | 884   |
| 8     | 750   | 745   | 900   | 1100  | 3060  | 4140  | 1540  | 919   | 1300  | 3190  | 722   | 798   |
| 9     | 751   | 741   | 960   | 1090  | 2540  | 4290  | 1420  | 942   | 1170  | 2150  | 724   | 742   |
| 10    | 752   | 738   | 1160  | 1070  | 4990  | 2530  | 1330  | 880   | 1070  | 1560  | 686   | 706   |
| 11    | 753   | 739   | 2530  | 1010  | 11300 | 1750  | 1260  | 860   | 984   | 1260  | 668   | 685   |
| 12    | 746   | 733   | 3470  | 965   | 11000 | 1470  | 1210  | 830   | 960   | 1170  | 657   | 671   |
| 13    | 741   | 723   | 3300  | 938   | 7150  | 1330  | 1170  | 793   | 1150  | 1040  | 658   | 669   |
| 14    | 737   | 726   | 2410  | 927   | 4760  | 1230  | 1120  | 770   | 1020  | 944   | 664   | 669   |
| 15    | 738   | 745   | 1730  | 928   | 3210  | 1150  | 1080  | 762   | 1280  | 882   | 672   | 698   |
| 16    | 740   | 834   | 1470  | 928   | 2580  | 1100  | 1030  | 747   | 1400  | 832   | 683   | 909   |
| 17    | 746   | 883   | 1330  | 921   | 2560  | 1070  | 992   | 747   | 1050  | 792   | 714   | 1040  |
| 18    | 788   | 917   | 1230  | 904   | 2480  | 1040  | 953   | 763   | 881   | 758   | 759   | 957   |
| 19    | 1240  | 989   | 1160  | 892   | 2150  | 1010  | 918   | 758   | 796   | 736   | 958   | 847   |
| 20    | 1410  | 939   | 1110  | 901   | 1880  | 973   | 892   | 741   | 740   | 716   | 1120  | 751   |
| 21    | 1150  | 898   | 1080  | 946   | 1700  | 954   | 872   | 717   | 711   | 704   | 922   | 697   |
| 22    | 971   | 871   | 1040  | 996   | 1570  | 1210  | 858   | 702   | 690   | 691   | 783   | 670   |
| 23    | 901   | 1070  | 1030  | 982   | 1510  | 1900  | 866   | 703   | 679   | 679   | 729   | 652   |
| 24    | 864   | 1540  | 1040  | 960   | 1410  | 2100  | 910   | 693   | 715   | 672   | 727   | 642   |
| 25    | 878   | 2000  | 1090  | 931   | 1320  | 2000  | 914   | 694   | 828   | 668   | 744   | 632   |
| 26    | 850   | 2400  | 1100  | 914   | 1250  | 1540  | 913   | 1010  | 959   | 682   | 715   | 625   |
| 27    | 829   | 3000  | 1050  | 912   | 1190  | 1270  | 1010  | 1470  | 1120  | 699   | 696   | 620   |
| 28    | 1260  | 3150  | 1020  | 921   | 1150  | 1140  | 909   | 1410  | 1090  | 685   | 686   | 611   |
| 29    | 2160  | 2500  | 1000  | 899   | ---   | 1080  | 854   | 1640  | 955   | 685   | 685   | 603   |
| 30    | 2770  | 1900  | 991   | 883   | ---   | 2390  | 833   | 1850  | 814   | 713   | 707   | 586   |
| 31    | 2180  | ---   | 975   | 877   | ---   | 4220  | ---   | 1370  | ---   | 1300  | 1040  | ---   |
| TOTAL | 31783 | 36438 | 41606 | 29419 | 83218 | 54157 | 50004 | 28782 | 32282 | 45908 | 23660 | 23921 |
| MFAN  | 1025  | 1215  | 1342  | 949   | 2972  | 1747  | 1667  | 928   | 1076  | 1481  | 763   | 797   |
| MAX   | 2770  | 3150  | 3470  | 1100  | 11300 | 4290  | 5390  | 1850  | 2030  | 4570  | 1120  | 1210  |
| MIN   | 737   | 723   | 900   | 877   | 918   | 954   | 833   | 693   | 679   | 668   | 657   | 586   |
| CFSM  | .85   | 1.00  | 1.11  | .78   | 2.45  | 1.44  | 1.37  | .77   | .89   | 1.22  | .63   | .66   |
| IN.   | .97   | 1.12  | 1.28  | .90   | 2.55  | 1.66  | 1.53  | .88   | .99   | 1.41  | .73   | .73   |

CAL YR 1980 TOTAL 1103084 MFAN 3028 MAX 54000 MIN 723 CFSM 2.50 IN 33.98  
WTR YR 1981 TOTAL 481178 MEAN 1318 MAX 11300 MIN 586 CFSM 1.09 IN 14.76

## PEARL RIVER BASIN

02492000 BOGUE CHITTO NEAR BUSH, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB   | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|-------|------|------|------|------|------|------|------|
| 1    | 4.72 | 5.88 | ---  | 4.41 | 4.29  | 4.79 | 9.45 | 3.91 | 4.49 | 3.72 | 4.42 | 4.28 |
| 2    | 4.70 | 5.05 | ---  | 4.38 | 5.08  | 4.74 | 9.16 | 3.89 | 4.75 | 3.82 | 3.92 | 4.02 |
| 3    | 4.50 | 4.71 | ---  | 4.35 | 5.89  | 4.68 | 9.32 | 3.83 | 4.93 | 6.59 | 3.65 | 4.20 |
| 4    | 4.29 | 4.53 | ---  | 4.34 | 5.40  | 4.66 | 8.79 | 3.79 | 6.44 | 8.98 | 3.51 | 4.52 |
| 5    | 4.12 | 4.41 | ---  | 4.32 | 5.15  | 5.08 | 7.36 | 3.93 | 6.00 | 8.88 | 3.45 | 4.56 |
| 6    | 4.04 | 4.30 | ---  | 4.31 | 6.80  | 6.83 | 6.42 | 4.35 | 5.18 | 8.91 | 3.49 | 4.12 |
| 7    | 3.98 | 4.24 | ---  | 4.45 | 8.26  | 8.06 | 5.85 | 4.28 | 5.10 | 8.92 | 3.54 | 3.80 |
| 8    | 3.95 | 4.20 | ---  | 4.74 | 7.77  | 8.68 | 5.49 | 4.15 | 5.07 | 7.88 | 3.51 | 3.60 |
| 9    | 3.94 | 4.18 | ---  | 4.74 | 7.21  | 8.79 | 5.26 | 4.21 | 4.82 | 6.62 | 3.51 | 3.45 |
| 10   | 3.94 | 4.17 | 4.88 | 4.68 | 8.83  | 7.15 | 5.09 | 4.06 | 4.58 | 5.56 | 3.38 | 3.36 |
| 11   | 3.93 | 4.15 | 7.14 | 4.54 | 11.08 | 6.02 | 4.95 | 4.01 | 4.37 | 4.96 | 3.32 | 3.30 |
| 12   | 3.91 | 4.12 | 8.16 | 4.41 | 11.02 | 5.50 | 4.84 | 3.94 | 4.31 | 4.77 | 3.27 | 3.27 |
| 13   | 3.88 | 4.09 | 8.01 | 4.34 | 10.07 | 5.22 | 4.75 | 3.84 | 4.76 | 4.46 | 3.26 | 3.26 |
| 14   | 3.86 | 4.08 | 7.01 | 4.32 | 9.08  | 5.02 | 4.66 | 3.79 | 4.48 | 4.23 | 3.28 | 3.27 |
| 15   | 3.85 | 4.12 | 5.98 | 4.32 | 7.92  | 4.86 | 4.55 | 3.77 | 5.04 | 4.06 | 3.30 | 3.38 |
| 16   | 3.86 | 4.34 | 5.49 | 4.32 | 7.26  | 4.74 | 4.43 | 3.74 | 5.28 | 3.94 | 3.33 | 3.93 |
| 17   | 3.87 | 4.45 | 5.22 | 4.30 | 7.23  | 4.68 | 4.34 | 3.74 | 4.55 | 3.84 | 3.43 | 4.26 |
| 18   | 3.99 | 4.52 | 5.03 | 4.26 | 7.14  | 4.60 | 4.24 | 3.78 | 4.12 | 3.76 | 3.54 | 4.06 |
| 19   | 5.20 | 4.69 | 4.88 | 4.23 | 6.66  | 4.51 | 4.15 | 3.76 | 3.91 | 3.69 | 4.02 | 3.80 |
| 20   | 5.64 | 4.56 | 4.78 | 4.25 | 6.23  | 4.43 | 4.09 | 3.72 | 3.78 | 3.63 | 4.41 | 3.56 |
| 21   | 4.97 | 4.45 | 4.69 | 4.37 | 5.93  | 4.39 | 4.04 | 3.66 | 3.70 | 3.59 | 3.91 | 3.41 |
| 22   | 4.50 | 4.37 | 4.61 | 4.49 | 5.71  | 4.98 | 4.01 | 3.62 | 3.63 | 3.54 | 3.57 | 3.33 |
| 23   | 4.29 | 4.84 | 4.57 | 4.45 | 5.57  | 6.27 | 4.02 | 3.62 | 3.59 | 3.49 | 3.42 | 3.28 |
| 24   | 4.18 | 5.81 | 4.60 | 4.40 | 5.38  | 6.60 | 4.13 | 3.59 | 3.70 | 3.46 | 3.41 | 3.25 |
| 25   | 4.22 | ---  | 4.73 | 4.33 | 5.20  | 6.43 | 4.14 | 3.59 | 3.99 | 3.44 | 3.44 | 3.23 |
| 26   | 4.13 | ---  | 4.75 | 4.28 | 5.06  | 5.63 | 4.13 | 4.39 | 4.32 | 3.48 | 3.36 | 3.21 |
| 27   | 4.05 | ---  | 4.63 | 4.28 | 4.95  | 5.11 | 4.37 | 5.37 | 4.72 | 3.53 | 3.29 | 3.20 |
| 28   | 5.19 | ---  | 4.56 | 4.30 | 4.86  | 4.84 | 4.12 | 5.27 | 4.63 | 3.48 | 3.25 | 3.18 |
| 29   | 6.96 | ---  | 4.51 | 4.25 | ---   | 4.70 | 3.99 | 5.74 | 4.30 | 3.46 | 3.23 | 3.16 |
| 30   | 7.83 | ---  | 4.48 | 4.21 | ---   | 6.92 | 3.93 | 6.12 | 3.95 | 3.54 | 3.30 | 3.11 |
| 31   | 7.09 | ---  | 4.44 | 4.19 | ---   | 8.69 | ---  | 5.20 | ---  | 4.93 | 4.13 | ---  |
| MEAN | 4.57 | ---  | ---  | 4.37 | 6.82  | 5.73 | 5.27 | 4.15 | 4.55 | 4.88 | 3.54 | 3.61 |
| MAX  | 7.83 | ---  | 8.16 | 4.74 | 11.08 | 8.79 | 9.45 | 6.12 | 6.44 | 8.98 | 4.42 | 4.56 |
| MIN  | 3.85 | 4.08 | ---  | 4.19 | 4.29  | 4.39 | 3.93 | 3.59 | 3.59 | 3.44 | 3.23 | 3.11 |

02492000 BOGUE CHITTO NEAR BUSH, LA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953-55, 1965-68, 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1981 (discontinued).

WATER TEMPERATURES: October 1974 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor October 1975 to September 1981 (discontinued).

REMARKS.--Lower limit of conductivity sensor was 28 micromhos prior to September 16, 1980.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 402 micromhos July 11, 1976; minimum, 13 micromhos Feb. 10, 1981.

WATER TEMPERATURES: Maximum, 33.0°C June 26, 1977, July 24, 25, 1981; minimum, 5.0°C Jan. 19, 20, 1977, Jan. 20, 21, 1978.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 71 micromhos May 29; minimum, 13 micromhos Feb. 10.

WATER TEMPERATURES: Maximum, 33.0°C July 24, 25; minimum, 6.0°C Jan. 13, 14.

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

| DATE  | TIME                                                      | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPF-<br>CIFIC<br>CON-<br>DUCTI-<br>ANCE<br>(UMHVS)   | PH<br>(UNITS)                                | TEMPER-<br>ATURE<br>(DEG C)                         | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)      | TUR-<br>BID-<br>ITY<br>(NTU)                  | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)                 | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03)                              |
|-------|-----------------------------------------------------------|-------------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|
| OCT   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 15... | 1230                                                      | 735                                             | 43                                                   | 6.1                                          | 19.5                                                | 5                                                 | 1.5                                           | 9.1                                                 | 1.3                                                            | K350                                                           | K120                                                               | 10                                                                  |
| NOV   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 04... | 1115                                                      | 1080                                            | 44                                                   | 6.0                                          | --                                                  | 15                                                | 10                                            | 9.3                                                 | 1.5                                                            | 220                                                            | 160                                                                | 8                                                                   |
| DEC   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 04... | 1300                                                      | --                                              | 45                                                   | 5.5                                          | 13.5                                                | 30                                                | 7.6                                           | 9.1                                                 | .3                                                             | 500                                                            | K70                                                                | 9                                                                   |
| JAN   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 15... | 1200                                                      | 1150                                            | 47                                                   | 5.7                                          | 7.0                                                 | 5                                                 | 2.7                                           | 11.9                                                | .9                                                             | 120                                                            | 540                                                                | 10                                                                  |
| FEB   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 02... | 1230                                                      | 1440                                            | 45                                                   | 5.7                                          | 12.0                                                | 10                                                | 7.8                                           | 10.0                                                | 2.0                                                            | --                                                             | --                                                                 | 9                                                                   |
| MAR   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 09... | 1430                                                      | 4380                                            | 39                                                   | 5.4                                          | 14.5                                                | 80                                                | 37                                            | 8.3                                                 | 3.0                                                            | 280                                                            | 100                                                                | 9                                                                   |
| APR   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 09... | 1330                                                      | 1570                                            | 48                                                   | 5.7                                          | 20.0                                                | 20                                                | 5.3                                           | 8.2                                                 | 2.2                                                            | 440                                                            | 1200                                                               | 9                                                                   |
| MAY   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 08... | 1145                                                      | 1120                                            | 43                                                   | 6.2                                          | 21.0                                                | 5                                                 | 4.6                                           | 8.1                                                 | .7                                                             | 570                                                            | 560                                                                | 8                                                                   |
| JUN   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 04... | 1230                                                      | 2200                                            | 39                                                   | 5.5                                          | 25.0                                                | 60                                                | 57                                            | 6.4                                                 | 2.9                                                            | 860                                                            | K360                                                               | 7                                                                   |
| JUL   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 07... | 1400                                                      | 4470                                            | 30                                                   | 5.4                                          | 26.0                                                | 50                                                | 10                                            | 6.6                                                 | 1.4                                                            | 410                                                            | 1900                                                               | 8                                                                   |
| AUG   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 07... | 1400                                                      | 950                                             | 40                                                   | 6.5                                          | 30.5                                                | 5                                                 | 3.1                                           | 8.1                                                 | 5.2                                                            | K170                                                           | 760                                                                | 8                                                                   |
| SEP   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 02... | 1200                                                      | 984                                             | 43                                                   | 6.5                                          | 27.0                                                | 30                                                | 7.5                                           | 7.6                                                 | .5                                                             | K700                                                           | K160                                                               | 8                                                                   |
|       |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| DATE  | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>AS CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)    | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>FIELD<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F)             | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS SiO2)                 | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) |
| OCT   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 15... | 2                                                         | 2.5                                             | .9                                                   | 4.6                                          | 1.1                                                 | 8                                                 | 3.0                                           | 7.2                                                 | .0                                                             | 10                                                             | 32                                                                 | 34                                                                  |
| NOV   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 04... | 1                                                         | 2.0                                             | .7                                                   | 3.8                                          | 1.5                                                 | 7                                                 | .5                                            | 6.0                                                 | .0                                                             | 11                                                             | 40                                                                 | 30                                                                  |
| DEC   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 04... | 2                                                         | 2.0                                             | .9                                                   | 3.8                                          | 1.7                                                 | 7                                                 | 2.0                                           | 6.7                                                 | .1                                                             | 11                                                             | 32                                                                 | 32                                                                  |
| JAN   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 15... | 10                                                        | 2.5                                             | .9                                                   | 4.6                                          | 1.0                                                 | 9                                                 | 1.8                                           | 7.3                                                 | .0                                                             | 9.8                                                            | 36                                                                 | 33                                                                  |
| FEB   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 02... | 2                                                         | 2.1                                             | .8                                                   | 4.6                                          | 1.3                                                 | 7                                                 | 3.6                                           | 6.5                                                 | .1                                                             | 10                                                             | 34                                                                 | 33                                                                  |
| MAR   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 09... | 3                                                         | 2.1                                             | .9                                                   | 4.0                                          | 2.1                                                 | 6                                                 | 4.4                                           | 4.8                                                 | .1                                                             | 7.5                                                            | 31                                                                 | 30                                                                  |
| APR   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 09... | 3                                                         | 2.1                                             | 1.0                                                  | 4.0                                          | 1.4                                                 | 6                                                 | 1.3                                           | 5.9                                                 | .0                                                             | 11                                                             | 38                                                                 | 31                                                                  |
| MAY   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 08... | 0                                                         | 1.9                                             | .9                                                   | 4.5                                          | 1.3                                                 | 9                                                 | .1                                            | 6.4                                                 | .0                                                             | 11                                                             | 40                                                                 | 31                                                                  |
| JUN   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 04... | 1                                                         | 1.6                                             | .7                                                   | 2.9                                          | 2.4                                                 | 6                                                 | 2.0                                           | 4.3                                                 | .0                                                             | 7.2                                                            | 39                                                                 | 26                                                                  |
| JUL   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 07... | 4                                                         | 1.9                                             | .7                                                   | 2.9                                          | 1.9                                                 | 4                                                 | 2.4                                           | 4.0                                                 | .0                                                             | 7.7                                                            | 34                                                                 | 27                                                                  |
| AUG   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 07... | 0                                                         | 2.0                                             | .8                                                   | 4.4                                          | 1.4                                                 | 7                                                 | 1.0                                           | 6.3                                                 | .0                                                             | 12                                                             | 42                                                                 | 32                                                                  |
| SEP   |                                                           |                                                 |                                                      |                                              |                                                     |                                                   |                                               |                                                     |                                                                |                                                                |                                                                    |                                                                     |
| 02... | 0                                                         | 1.9                                             | .8                                                   | 3.9                                          | 1.5                                                 | 8                                                 | 1.0                                           | 6.1                                                 | .0                                                             | 11                                                             | 39                                                                 | 31                                                                  |

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

## PEARL RIVER BASIN

02492000 BOGUE CHITTO NEAR BUSH, LA--Continued

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

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARRON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>SUS-<br>PENDED<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|
| OCT<br>15... | .00                                                  | .00                                                           | .04                                                  | .05                                                           | .87                                                               | .63                                                                        | .04                                         | .01                                                  | --                                            | 2.0                                                    | 1.0                                                             |
| NOV<br>04... | .33                                                  | .33                                                           | .12                                                  | .04                                                           | .97                                                               | .74                                                                        | .18                                         | .06                                                  | --                                            | --                                                     | --                                                              |
| DEC<br>04... | .31                                                  | .30                                                           | .00                                                  | .01                                                           | 1.0                                                               | 1.1                                                                        | .05                                         | .04                                                  | 2.7                                           | --                                                     | --                                                              |
| JAN<br>15... | .20                                                  | .10                                                           | .10                                                  | .07                                                           | .65                                                               | .39                                                                        | .07                                         | .01                                                  | --                                            | 2.0                                                    | .6                                                              |
| FEB<br>02... | .09                                                  | .10                                                           | .07                                                  | .06                                                           | 3.8                                                               | .55                                                                        | .05                                         | .03                                                  | 2.4                                           | --                                                     | --                                                              |
| MAR<br>09... | .22                                                  | .24                                                           | .08                                                  | .13                                                           | 1.0                                                               | .86                                                                        | .20                                         | .09                                                  | 11                                            | --                                                     | --                                                              |
| APR<br>09... | .26                                                  | .26                                                           | .08                                                  | .07                                                           | .51                                                               | .51                                                                        | .11                                         | .05                                                  | --                                            | 3.7                                                    | --                                                              |
| MAY<br>08... | .35                                                  | .36                                                           | .13                                                  | .17                                                           | --                                                                | .64                                                                        | .18                                         | .18                                                  | 5.6                                           | --                                                     | --                                                              |
| JUN<br>04... | .37                                                  | .41                                                           | .14                                                  | .22                                                           | 1.3                                                               | 1.3                                                                        | .41                                         | .24                                                  | 7.8                                           | --                                                     | --                                                              |
| JUL<br>07... | --                                                   | .30                                                           | .07                                                  | .11                                                           | .84                                                               | .83                                                                        | .11                                         | .06                                                  | --                                            | 7.2                                                    | .7                                                              |
| AUG<br>07... | 1.9                                                  | .42                                                           | .11                                                  | .06                                                           | .56                                                               | .55                                                                        | .06                                         | .00                                                  | 2.4                                           | --                                                     | --                                                              |
| SEP<br>02... | .21                                                  | .19                                                           | .10                                                  | .14                                                           | .54                                                               | .59                                                                        | .08                                         | .05                                                  | 3.3                                           | --                                                     | --                                                              |

| DATE         | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BA) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | CORALI,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO) | CORALI,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) |
|--------------|-------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|
| OCT<br>15... | 1                                   | 0                                            | --                                                      | 20                                           | 0                                                       | 1                                            | 0                                                              | 0                                                   | 0                                                       | <3                                           |
| JAN<br>15... | 0                                   | 0                                            | 100                                                     | 30                                           | 0                                                       | <1                                           | 10                                                             | 0                                                   | 0                                                       | <3                                           |
| APR<br>09... | 0                                   | 0                                            | 100                                                     | 30                                           | 0                                                       | <1                                           | 10                                                             | 10                                                  | 0                                                       | <3                                           |
| JUL<br>07... | 3                                   | 1                                            | --                                                      | 100                                          | 0                                                       | <1                                           | 10                                                             | 10                                                  | 2                                                       | <3                                           |

| DATE         | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PR) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PR) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) |
|--------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|
| OCT<br>15... | 6                                                       | 6                                            | 370                                                   | 230                                        | 0                                                     | 3                                          | 40                                                              | 40                                                   | .0                                                      |
| JAN<br>15... | 6                                                       | 2                                            | 460                                                   | 220                                        | 7                                                     | 0                                          | 70                                                              | 70                                                   | .0                                                      |
| APR<br>09... | 0                                                       | 3                                            | --                                                    | 130                                        | 0                                                     | 2                                          | --                                                              | 90                                                   | .1                                                      |
| JUL<br>07... | 5                                                       | 3                                            | 1100                                                  | 140                                        | 3                                                     | 0                                          | 100                                                             | 50                                                   | .1                                                      |

&lt; Actual value is known to be less than the value shown.

## PEARL RIVER BASIN

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02492000 BOGUE CHITTO NEAR BUSH, LA--Continued

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

| DATE         | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AG) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| OCT<br>15... | .0                                           | 2                                                       | 1                                            | 0                                                   | 0                                                   | 0                                                       | 0                                            | 10                                                    | 8                                          |
| JAN<br>15... | .0                                           | 5                                                       | 0                                            | 0                                                   | 0                                                   | 0                                                       | 0                                            | --                                                    | 20                                         |
| APR<br>09... | .1                                           | 2                                                       | 0                                            | 0                                                   | 0                                                   | 0                                                       | 0                                            | 10                                                    | 8                                          |
| JUL<br>07... | .0                                           | 4                                                       | 4                                            | 0                                                   | 0                                                   | 0                                                       | 0                                            | 20                                                    | 9                                          |

| DATE         | PHYTO-<br>PLANK-<br>TON,<br>TOTAL<br>(CELLS<br>PER ML) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDED<br>(T/DAY) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|--------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|
| OCT<br>15... | --                                                     | 38                                         | 75                                                             | 48                                                            |
| NOV<br>04... | 190                                                    | 49                                         | 143                                                            | 80                                                            |
| DEC<br>04... | --                                                     | 20                                         | --                                                             | 62                                                            |
| JAN<br>15... | --                                                     | 24                                         | 75                                                             | 83                                                            |
| FEB<br>02... | --                                                     | 44                                         | 171                                                            | 72                                                            |
| MAR<br>09... | 2100                                                   | 44                                         | 520                                                            | 98                                                            |
| APR<br>09... | --                                                     | 39                                         | 165                                                            | 84                                                            |
| MAY<br>08... | 2200                                                   | 29                                         | 88                                                             | 97                                                            |
| JUN<br>04... | 8200                                                   | 101                                        | 600                                                            | 99                                                            |
| JUL<br>07... | 670                                                    | 54                                         | 652                                                            | 100                                                           |
| AUG<br>07... | 6600                                                   | 38                                         | 97                                                             | 78                                                            |
| SEP<br>02... | --                                                     | 34                                         | 90                                                             | 94                                                            |



## PEARL RIVER BASIN

02492000 BOGUE CHITTO NEAR BUSH, LA--Continued

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 |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-------|-----|
|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH |     |
| 1     | 49      | 39  | 53       | 41  | 50       | 45  | 39      | 38  | 43       | 41  | 45    | 44  |
| 2     | 46      | 40  | 49       | 45  | 45       | 44  | 39      | 38  | 42       | 39  | 45    | 44  |
| 3     | 47      | 41  | 46       | 45  | 44       | 42  | 41      | 38  | 49       | 40  | 45    | 44  |
| 4     | 47      | 43  | 45       | 45  | 43       | 41  | 40      | 39  | 44       | 41  | 45    | 44  |
| 5     | 50      | 46  | 46       | 45  | 42       | 41  | 40      | 39  | 43       | 41  | 45    | 42  |
| 6     | 47      | 43  | 46       | 45  | 42       | 41  | 40      | 39  | 42       | 31  | 58    | 42  |
| 7     | 45      | 43  | 46       | 45  | 42       | 40  | 40      | 38  | 36       | 32  | 49    | 40  |
| 8     | 45      | 43  | 46       | 44  | 42       | 40  | 40      | 37  | 42       | 35  | 41    | 32  |
| 9     | 44      | 42  | 45       | 43  | 41       | 39  | 39      | 36  | 50       | 43  | 39    | 31  |
| 10    | 43      | 41  | 45       | 44  | 41       | 38  | 41      | 38  | 51       | 13  | 44    | 38  |
| 11    | 43      | 41  | 49       | 44  | 43       | 38  | 42      | 39  | 19       | 15  | 43    | 40  |
| 12    | 43      | 41  | 48       | 43  | 43       | 39  | 46      | 42  | 25       | 19  | 46    | 43  |
| 13    | 43      | 41  | 45       | 44  | 49       | 41  | 44      | 41  | 37       | 26  | 46    | 44  |
| 14    | 43      | 42  | 45       | 44  | 41       | 39  | 45      | 41  | 38       | 36  | 46    | 45  |
| 15    | 43      | 42  | 45       | 44  | 41       | 40  | 48      | 43  | 38       | 36  | 46    | 44  |
| 16    | 43      | 41  | 45       | 43  | 43       | 40  | 43      | 42  | 38       | 37  | 45    | 43  |
| 17    | 42      | 41  | 44       | 43  | 42       | 41  | 42      | 39  | 38       | 37  | 46    | 43  |
| 18    | 42      | 39  | 47       | 42  | 42       | 41  | 41      | 39  | 38       | 37  | 45    | 42  |
| 19    | 45      | 35  | 45       | 44  | 42       | 41  | 41      | 40  | 42       | 38  | 45    | 43  |
| 20    | 47      | 39  | 50       | 44  | 42       | 41  | 41      | 40  | 44       | 42  | 45    | 42  |
| 21    | 47      | 39  | 48       | 46  | 42       | 41  | 41      | 39  | 46       | 43  | 46    | 43  |
| 22    | 48      | 44  | 50       | 47  | 42       | 41  | 42      | 40  | 46       | 45  | 43    | 38  |
| 23    | 46      | 44  | 49       | 44  | 43       | 41  | 42      | 40  | 45       | 44  | 52    | 37  |
| 24    | 47      | 44  | 51       | 43  | 40       | 39  | 42      | 40  | 45       | 44  | 41    | 36  |
| 25    | 47      | 42  | 50       | 45  | 39       | 38  | 42      | 41  | 46       | 44  | 53    | 42  |
| 26    | 43      | 42  | 53       | 44  | 40       | 37  | 43      | 42  | 45       | 44  | 60    | 49  |
| 27    | 48      | 42  | 57       | 37  | 42       | 37  | 42      | 40  | 45       | 44  | 50    | 46  |
| 28    | 43      | 32  | 40       | 36  | 41       | 39  | 42      | 41  | 45       | 44  | 47    | 45  |
| 29    | 39      | 31  | 47       | 39  | 42       | 39  | 43      | 42  | ---      | --- | 48    | 45  |
| 30    | 35      | 27  | 55       | 46  | 41       | 38  | 44      | 42  | ---      | --- | 44    | 30  |
| 31    | 41      | 36  | ---      | --- | 42       | 38  | 43      | 42  | ---      | --- | 43    | 36  |
| MONTH | 50      | 27  | 57       | 36  | 50       | 37  | 48      | 36  | 51       | 13  | 60    | 30  |

| DAY   | MAX   | MIN | MAX | MIN | MAX  | MIN | MAX  | MIN | MAX    | MIN | MAX       | MIN |
|-------|-------|-----|-----|-----|------|-----|------|-----|--------|-----|-----------|-----|
|       | APRIL |     | MAY |     | JUNE |     | JULY |     | AUGUST |     | SEPTEMBER |     |
| 1     | 38    | 35  | --- | --- | 53   | 48  | 46   | 44  | 32     | 26  | 41        | 34  |
| 2     | 44    | 37  | --- | --- | 63   | 43  | 45   | 41  | 36     | 31  | 47        | 42  |
| 3     | 46    | 35  | --- | --- | 54   | 46  | 45   | 16  | 42     | 37  | 47        | 42  |
| 4     | 41    | 37  | --- | --- | 55   | 36  | 30   | 23  | 42     | 40  | 52        | 42  |
| 5     | 44    | 41  | --- | --- | 46   | 38  | 38   | 32  | 44     | 40  | 46        | 39  |
| 6     | 47    | 45  | --- | --- | 49   | 43  | 34   | 27  | 45     | 40  | 42        | 38  |
| 7     | 48    | 46  | --- | --- | 54   | 44  | 35   | 30  | 42     | 39  | 49        | 41  |
| 8     | 49    | 48  | --- | --- | 45   | 41  | 45   | 37  | 45     | 42  | 52        | 45  |
| 9     | 50    | 48  | --- | --- | 50   | 46  | 47   | 44  | 54     | 43  | 45        | 42  |
| 10    | 49    | 47  | --- | --- | 48   | 45  | 52   | 47  | 46     | 38  | 46        | 41  |
| 11    | 49    | 47  | --- | --- | 50   | 45  | 53   | 45  | 42     | 37  | 43        | 37  |
| 12    | 48    | 47  | --- | --- | 50   | 45  | ---  | --- | 42     | 37  | 41        | 36  |
| 13    | 48    | 46  | --- | --- | 55   | 42  | 45   | 40  | 44     | 40  | 40        | 38  |
| 14    | 46    | 44  | --- | --- | 46   | 42  | 44   | 40  | 45     | 39  | 41        | 38  |
| 15    | 45    | 44  | --- | --- | 53   | 46  | 44   | 40  | 42     | 38  | 41        | 38  |
| 16    | 45    | 43  | --- | --- | 60   | 48  | 44   | 40  | 40     | 37  | 39        | 34  |
| 17    | 45    | 43  | --- | --- | 55   | 48  | 51   | 45  | 40     | 35  | 40        | 37  |
| 18    | 45    | 44  | --- | --- | 50   | 48  | 53   | 46  | 41     | 36  | 41        | 23  |
| 19    | 47    | 43  | --- | --- | 50   | 45  | 55   | 51  | 41     | 34  | 32        | 26  |
| 20    | 48    | 46  | --- | --- | 47   | 45  | 51   | 45  | 37     | 31  | 37        | 31  |
| 21    | 49    | 46  | 49  | 47  | 48   | 45  | 46   | 42  | 38     | 33  | 35        | 31  |
| 22    | 48    | 46  | 51  | 49  | 48   | 45  | 44   | 41  | 42     | 39  | 38        | 34  |
| 23    | 47    | 45  | 50  | 48  | 48   | 46  | 44   | 40  | 46     | 42  | 40        | 36  |
| 24    | 47    | 44  | 51  | 48  | 49   | 45  | 43   | 41  | 46     | 42  | 41        | 36  |
| 25    | 46    | 43  | 50  | 48  | 47   | 43  | 45   | 41  | 44     | 38  | 43        | 38  |
| 26    | 45    | 44  | 48  | 43  | 47   | 44  | 43   | 40  | 39     | 37  | 43        | 38  |
| 27    | 47    | 43  | 60  | 43  | 56   | 42  | 41   | 39  | 40     | 37  | 43        | 40  |
| 28    | 54    | 45  | 46  | 41  | 56   | 48  | 42   | 38  | 41     | 37  | ---       | --- |
| 29    | 57    | 51  | 71  | 45  | 58   | 46  | 41   | 37  | 41     | 39  | ---       | --- |
| 30    | 60    | 48  | 58  | 42  | 49   | 44  | 42   | 39  | 42     | 38  | ---       | --- |
| 31    | ---   | --- | 51  | 43  | ---  | --- | 41   | 27  | 42     | 32  | ---       | --- |
| MONTH | 60    | 35  | --- | --- | 63   | 36  | 55   | 16  | 54     | 26  | 52        | 23  |

02492000 BOGUE CHITTO NEAR BUSH, 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  |
|-------|---------|------|----------|------|----------|------|---------|------|----------|------|-----------|------|
|       | OCTOBER |      | NOVEMBER |      | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH     |      |
| 1     | 24.5    | 24.0 | 15.5     | 14.5 | 11.5     | 10.0 | 10.0    | 9.0  | 13.5     | 12.5 | 18.0      | 17.0 |
| 2     | 24.5    | 22.5 | 15.5     | 14.5 | 13.5     | 11.5 | 10.0    | 9.0  | 13.0     | 11.5 | 18.5      | 17.5 |
| 3     | 24.0    | 22.5 | 16.5     | 15.0 | 14.0     | 13.0 | 10.0    | 9.0  | 11.0     | 9.5  | 18.0      | 16.5 |
| 4     | 22.5    | 21.5 | 16.5     | 16.0 | 13.5     | 13.0 | 10.5    | 9.0  | 9.5      | 9.0  | 17.0      | 16.5 |
| 5     | 22.0    | 21.0 | 17.0     | 16.0 | 13.5     | 12.5 | 10.0    | 9.0  | 9.0      | 8.5  | 17.5      | 16.0 |
| 6     | 21.0    | 19.5 | 16.5     | 15.5 | 14.5     | 13.5 | 9.5     | 9.0  | 8.0      | 8.0  | 17.0      | 16.5 |
| 7     | 20.5    | 18.5 | 17.0     | 15.5 | 16.0     | 14.5 | 10.0    | 9.0  | 9.0      | 8.0  | 16.5      | 15.5 |
| 8     | 20.5    | 18.5 | 17.5     | 16.0 | 16.5     | 15.5 | 10.0    | 9.0  | 10.5     | 9.0  | 15.5      | 15.0 |
| 9     | 21.0    | 19.0 | 18.0     | 16.5 | 17.5     | 16.5 | 9.5     | 9.0  | 11.0     | 10.0 | 15.5      | 14.5 |
| 10    | 21.5    | 19.5 | 18.5     | 17.0 | 17.0     | 15.0 | 9.5     | 8.5  | 13.0     | 11.0 | 15.5      | 14.5 |
| 11    | 22.0    | 20.0 | 18.5     | 17.5 | 15.0     | 13.5 | 9.0     | 8.5  | 13.0     | 10.5 | 16.0      | 15.0 |
| 12    | 21.5    | 20.0 | 18.0     | 17.0 | 13.0     | 12.0 | 8.5     | 7.0  | 10.5     | 8.5  | 16.0      | 15.5 |
| 13    | 20.5    | 19.0 | 17.0     | 16.0 | 12.0     | 11.5 | 7.0     | 6.0  | 8.5      | 8.0  | 16.0      | 15.0 |
| 14    | 20.0    | 18.5 | 18.0     | 17.0 | 11.5     | 11.0 | 7.0     | 6.0  | 9.0      | 8.0  | 16.5      | 15.0 |
| 15    | 20.0    | 18.5 | 19.0     | 18.0 | 11.5     | 10.5 | 8.0     | 6.5  | 10.5     | 9.0  | 17.5      | 16.0 |
| 16    | 21.0    | 19.5 | 19.0     | 18.0 | 12.0     | 11.5 | 8.5     | 7.5  | 12.0     | 10.5 | 18.0      | 16.5 |
| 17    | 22.5    | 21.0 | 18.5     | 17.0 | 12.0     | 11.5 | 8.0     | 7.5  | 12.0     | 12.0 | 17.5      | 16.0 |
| 18    | 22.5    | 22.0 | 17.0     | 14.5 | 11.5     | 11.0 | 7.5     | 6.5  | 15.0     | 14.0 | 18.0      | 16.5 |
| 19    | 22.0    | 21.0 | 14.5     | 13.0 | 12.0     | 11.0 | 7.5     | 6.5  | 16.0     | 14.5 | 17.0      | 16.0 |
| 20    | 21.0    | 19.5 | 12.5     | 12.0 | 12.0     | 10.5 | 8.0     | 7.5  | 17.5     | 15.5 | 16.5      | 15.0 |
| 21    | 19.5    | 18.5 | 12.0     | 11.0 | 10.5     | 9.0  | 8.0     | 7.5  | 17.0     | 17.0 | 16.0      | 15.0 |
| 22    | 19.5    | 18.0 | 12.0     | 11.5 | 9.0      | 8.5  | 8.5     | 7.5  | 17.0     | 16.5 | 16.5      | 15.5 |
| 23    | 20.5    | 19.0 | 12.5     | 12.0 | 10.5     | 9.0  | 9.5     | 8.0  | 16.5     | 15.5 | 16.5      | 15.5 |
| 24    | 21.5    | 20.0 | 13.0     | 12.5 | 11.5     | 10.0 | 10.5    | 9.0  | 16.0     | 15.0 | 16.0      | 15.0 |
| 25    | 20.5    | 19.0 | 12.5     | 12.5 | 11.5     | 10.5 | 11.0    | 9.5  | 16.5     | 15.5 | 16.5      | 15.0 |
| 26    | 19.0    | 17.5 | 12.5     | 11.5 | 10.0     | 9.0  | 12.0    | 10.5 | 17.0     | 15.5 | 17.0      | 15.5 |
| 27    | 18.5    | 17.5 | 11.0     | 10.0 | 9.5      | 8.5  | 13.0    | 11.5 | 17.0     | 16.0 | 18.0      | 16.0 |
| 28    | 19.0    | 18.5 | 10.0     | 9.5  | 9.5      | 8.5  | 13.5    | 12.5 | 17.5     | 16.0 | 18.5      | 17.0 |
| 29    | 19.0    | 17.0 | 10.0     | 9.5  | 9.5      | 8.5  | ---     | ---  | ---      | ---  | 18.5      | 18.0 |
| 30    | 17.0    | 16.0 | 10.5     | 9.5  | 10.0     | 9.0  | 13.5    | 12.5 | ---      | ---  | 20.0      | 18.5 |
| 31    | 16.0    | 15.0 | ---      | ---  | 10.0     | 9.0  | 13.5    | 12.5 | ---      | ---  | 19.5      | 19.5 |
| MONTH | 24.5    | 15.0 | 19.0     | 9.5  | 17.5     | 8.5  | 13.5    | 6.0  | 17.5     | 8.0  | 20.0      | 14.5 |
| DAY   | MAX     | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN  |
|       | APRIL   |      | MAY      |      | JUNE     |      | JULY    |      | AUGUST   |      | SEPTEMBER |      |
| 1     | 20.0    | 19.5 | ---      | ---  | 27.0     | 26.0 | 29.5    | 28.0 | 30.5     | 28.5 | 28.0      | 27.0 |
| 2     | 19.5    | 19.0 | ---      | ---  | 26.5     | 25.0 | 28.0    | 26.0 | 30.5     | 29.0 | 28.0      | 26.5 |
| 3     | 19.5    | 19.0 | ---      | ---  | 27.0     | 25.5 | 26.0    | 23.5 | 29.5     | 28.5 | 27.5      | 26.0 |
| 4     | 21.0    | 19.5 | ---      | ---  | 26.5     | 25.0 | 25.0    | 23.5 | 30.0     | 27.5 | 27.5      | 26.0 |
| 5     | 21.5    | 20.5 | ---      | ---  | 25.5     | 25.0 | 26.0    | 25.0 | 31.0     | 28.5 | 28.0      | 26.5 |
| 6     | 21.0    | 20.0 | ---      | ---  | 26.0     | 25.0 | 25.5    | 25.0 | 31.0     | 29.5 | 28.0      | 26.5 |
| 7     | 20.5    | 19.5 | ---      | ---  | 26.5     | 25.5 | 26.5    | 25.5 | 31.0     | 29.5 | 28.5      | 27.0 |
| 8     | 20.0    | 19.5 | ---      | ---  | 28.0     | 26.0 | 28.5    | 26.5 | 30.5     | 28.5 | 28.5      | 27.0 |
| 9     | 20.5    | 19.5 | ---      | ---  | 29.5     | 27.5 | 29.5    | 28.0 | 31.0     | 29.0 | 28.5      | 26.5 |
| 10    | 22.0    | 20.0 | ---      | ---  | 29.5     | 28.5 | 30.0    | 29.0 | 30.5     | 29.0 | 27.5      | 25.5 |
| 11    | 22.0    | 21.0 | ---      | ---  | 29.0     | 28.0 | 29.5    | 28.5 | 31.0     | 29.0 | 27.0      | 24.5 |
| 12    | 23.0    | 21.5 | ---      | ---  | 28.5     | 27.0 | 29.5    | 28.0 | 31.5     | 29.5 | 27.5      | 25.5 |
| 13    | 23.5    | 22.5 | ---      | ---  | 29.0     | 27.0 | 30.5    | 28.5 | 31.5     | 29.5 | 28.0      | 26.5 |
| 14    | 24.5    | 22.5 | ---      | ---  | 29.5     | 27.5 | 31.5    | 29.0 | 31.5     | 29.5 | 27.5      | 25.5 |
| 15    | 25.0    | 23.0 | ---      | ---  | 29.5     | 28.0 | 31.5    | 29.5 | 31.5     | 30.0 | 27.5      | 26.5 |
| 16    | 24.5    | 24.0 | ---      | ---  | 30.0     | 28.5 | 31.5    | 29.5 | 31.5     | 30.0 | 27.0      | 26.0 |
| 17    | 25.0    | 23.5 | ---      | ---  | 30.5     | 28.5 | 31.5    | 29.5 | 31.0     | 29.0 | 26.5      | 25.0 |
| 18    | 25.5    | 24.0 | ---      | ---  | 31.0     | 29.0 | 31.5    | 29.5 | 31.5     | 29.0 | 25.5      | 24.0 |
| 19    | 26.0    | 24.0 | ---      | ---  | 31.5     | 29.0 | 32.0    | 30.0 | 30.5     | 28.5 | 24.0      | 22.0 |
| 20    | 26.0    | 24.5 | ---      | ---  | 31.5     | 29.5 | 32.0    | 30.0 | 29.0     | 27.5 | 23.5      | 21.0 |
| 21    | 26.5    | 24.5 | 24.0     | 22.0 | 31.5     | 29.5 | 32.0    | 30.0 | 29.0     | 27.0 | 24.0      | 21.5 |
| 22    | 26.0    | 25.0 | 24.5     | 22.0 | 31.5     | 29.5 | 32.5    | 30.0 | 29.0     | 28.0 | 25.0      | 22.5 |
| 23    | 26.0    | 24.5 | 25.0     | 22.5 | 30.5     | 29.0 | 32.5    | 30.5 | 29.0     | 27.5 | 25.5      | 23.5 |
| 24    | 24.0    | 23.0 | 26.0     | 23.5 | 29.0     | 27.5 | 33.0    | 30.5 | 28.5     | 27.5 | 26.5      | 24.0 |
| 25    | 23.0    | 22.0 | 25.5     | 24.5 | 27.5     | 26.5 | 33.0    | 31.0 | 30.0     | 27.5 | 27.0      | 25.0 |
| 26    | 23.5    | 21.5 | 25.5     | 24.0 | 28.5     | 26.0 | 32.0    | 30.5 | 30.0     | 28.0 | 27.0      | 25.0 |
| 27    | 24.0    | 21.5 | 25.5     | 24.0 | 29.5     | 27.0 | 31.0    | 29.5 | 29.5     | 28.5 | 27.5      | 25.5 |
| 28    | 24.0    | 22.5 | 26.5     | 24.0 | 29.5     | 27.5 | 31.0    | 29.0 | 29.5     | 28.5 | 28.0      | 26.0 |
| 29    | 25.0    | 23.5 | 27.0     | 25.5 | 29.0     | 28.0 | 31.0    | 29.0 | 29.0     | 28.0 | 27.5      | 26.0 |
| 30    | 25.5    | 23.5 | 27.0     | 25.5 | 30.0     | 27.5 | 31.0    | 29.0 | 29.0     | 27.0 | 27.5      | 25.5 |
| 31    | ---     | ---  | 27.5     | 26.0 | ---      | ---  | 30.5    | 29.5 | 28.5     | 27.5 | ---       | ---  |
| MONTH | 26.5    | 19.0 | ---      | ---  | 31.5     | 25.0 | 33.0    | 23.5 | 31.5     | 27.0 | 28.5      | 21.0 |

## PEARL RIVER BASIN

02492000 BOGUE CHITTO NEAR BUSH, LA--Continued

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

| DATE<br>TIME        | NOV 4,80<br>1115 | MAR 9,81<br>1430 | MAY 8,81<br>1145 | JUN 4,81<br>1230 | JUL 7,81<br>1400 | AUG 7,81<br>1400 |
|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| TOTAL CELLS/ML      | 190              | 2100             | 2200             | 8200             | 670              | 6600             |
| DIVERSITY: DIVISION | 1.8              | 1.4              | 0.8              | 1.1              | 1.2              | 0.9              |
| ...CLASS            | 1.8              | 1.4              | 0.8              | 1.1              | 1.2              | 0.9              |
| ...ORDER            | 2.1              | 2.5              | 0.8              | 1.8              | 1.5              | 1.1              |
| ...FAMILY           | 2.5              | 3.3              | 1.9              | 2.6              | 1.7              | 2.0              |
| ...GENUS            | 2.5              | 3.7              | 2.3              | 3.2              | 1.8              | 2.9              |

| ORGANISM                   | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT |
|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| CHLOROPHYTA (GREEN ALGAE)  |              |              |              |              |              |              |              |              |              |              |              |              |
| ..CHLOROPHYCEAE            |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHLOROCOCCALES          |              |              |              |              |              |              |              |              |              |              |              |              |
| ...MICRACETINACEAE         |              |              |              |              |              |              |              |              |              |              |              |              |
| ...MICRACETINUM            | --           | -            | 28           | 1            | 64           | 3            | 690          | 8            | --           | -            | 91           | 1            |
| ...OOCYSTACEAE             |              |              |              |              |              |              |              |              |              |              |              |              |
| ...ANKISTRODESMUS          | 13           | 7            | 180          | 9            | 39           | 2            | 220          | 3            | 13           | 2            | 1000#        | 16           |
| ...CHONATHELLA             | --           | -            | --           | -            | --           | -            | *            | 0            | --           | -            | --           | -            |
| ...DICTYOSPHAERIUM         | --           | -            | 480#         | 23           | 1000#        | 47           | 600          | 7            | 240#         | 37           | 1400#        | 22           |
| ...KIRCHNERITELLA          | --           | -            | --           | -            | --           | -            | *            | 0            | --           | -            | 410          | 6            |
| ...OOCYSTIS                | --           | -            | --           | -            | --           | -            | 96           | 1            | --           | -            | --           | -            |
| ...SELFNASTRUM             | --           | -            | --           | -            | --           | -            | 55           | 1            | --           | -            | *            | 0            |
| ...WESTELLA                | --           | -            | --           | -            | --           | -            | 55           | 1            | --           | -            | --           | -            |
| ...SCENEDSMACEAE           |              |              |              |              |              |              |              |              |              |              |              |              |
| ...ACTINASTRUM             | --           | -            | --           | -            | 100          | 5            | *            | 0            | --           | -            | --           | -            |
| ...CRUCIGENIA              | --           | -            | 56           | 3            | --           | -            | --           | -            | --           | -            | 390          | 6            |
| ...SCENEDSMUS              | 52#          | 27           | 110          | 5            | 580#         | 26           | 600          | 7            | 13           | 2            | 1700#        | 26           |
| ...TETRASTRUM              | --           | -            | --           | -            | 52           | 2            | 55           | 1            | --           | -            | --           | -            |
| ...TETRASPORALES           |              |              |              |              |              |              |              |              |              |              |              |              |
| ...PALMELLACEAE            |              |              |              |              |              |              |              |              |              |              |              |              |
| ...SPHAEROCYSTIS           | --           | -            | 110          | 5            | --           | -            | --           | -            | --           | -            | 270          | 4            |
| ...VOLVOCALES              |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHLAMYDOMONADACEAE      |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHLAMYDOMONAS           | --           | -            | 140          | 7            | --           | -            | *            | 0            | --           | -            | --           | -            |
| ...ZYGNEMATALS             |              |              |              |              |              |              |              |              |              |              |              |              |
| ...DESMIDIACEAE            |              |              |              |              |              |              |              |              |              |              |              |              |
| ...COSMARIVUM              | --           | -            | --           | -            | --           | -            | *            | 0            | --           | -            | --           | -            |
| ...ZYGNEMATACEAE           |              |              |              |              |              |              |              |              |              |              |              |              |
| ...MOUGENTIA               | --           | -            | 170          | 8            | --           | -            | --           | -            | --           | -            | --           | -            |
| CHRYSOPHYTA                |              |              |              |              |              |              |              |              |              |              |              |              |
| ..BACILLARIOPHYCEAE        |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CENTRALES               |              |              |              |              |              |              |              |              |              |              |              |              |
| ...COSCINODISCACEAE        |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CYCLOTELLA              | 13           | 7            | 98           | 5            | 13           | 1            | *            | 0            | --           | -            | 68           | 1            |
| ...MELOSTRA                | --           | -            | 56           | 3            | --           | -            | 55           | 1            | --           | -            | --           | -            |
| ...PENNALES                |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CYMBELLACEAE            |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CYMBELLA                | 13           | 7            | 28           | 1            | --           | -            | --           | -            | --           | -            | --           | -            |
| ...EUNOTIACEAE             |              |              |              |              |              |              |              |              |              |              |              |              |
| ...EUNOTIA                 | --           | -            | --           | -            | --           | -            | *            | 0            | --           | -            | --           | -            |
| ...FRAGILARIACEAE          |              |              |              |              |              |              |              |              |              |              |              |              |
| ...ASTERIONELLA            | --           | -            | 170          | 8            | --           | -            | --           | -            | --           | -            | --           | -            |
| ...SYNEDRA                 | --           | -            | --           | -            | 13           | 1            | --           | -            | --           | -            | *            | 0            |
| ...GOMPHONEMATACEAE        |              |              |              |              |              |              |              |              |              |              |              |              |
| ...GOMPHONEMA              | --           | -            | 28           | 1            | 13           | 1            | *            | 0            | --           | -            | --           | -            |
| ...NAVICULACEAE            |              |              |              |              |              |              |              |              |              |              |              |              |
| ...NAVICULA                | --           | -            | 110          | 5            | 13           | 1            | --           | -            | --           | -            | --           | -            |
| ...NITZSCHIACEAE           |              |              |              |              |              |              |              |              |              |              |              |              |
| ...NITZSCHIA               | 39#          | 20           | 150          | 7            | 39           | 2            | 120          | 2            | --           | -            | 110          | 2            |
| ...SURTRELLACEAE           |              |              |              |              |              |              |              |              |              |              |              |              |
| ...SURTRELLA               | --           | -            | 14           | 1            | --           | -            | --           | -            | --           | -            | --           | -            |
| CRYPTOPHYTA (CRYPTOMONADS) |              |              |              |              |              |              |              |              |              |              |              |              |
| ..CRYPTOPHYCEAE            |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CRYPTOMONADALES         |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CRYPTOCHRYSIDACEAE      |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHROOMONAS              | --           | -            | 28           | 1            | --           | -            | --           | -            | --           | -            | --           | -            |

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

\* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

02492000 BOGUE CHITTO NEAR BUSH, LA--Continued

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

| DATE<br>TIME                  | NOV 4,80<br>1115          | MAR 9,81<br>1430          | MAY 8,81<br>1145          | JUN 4,81<br>1230          | JUL 7,81<br>1400          | AUG 7,81<br>1400          |
|-------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| ORGANISM                      | CELLS<br>/ML PER-<br>CENT | CELLS<br>/ML PER-<br>CENT | CELLS<br>/ML PER-<br>CENT | CELLS<br>/ML PER-<br>CENT | CELLS<br>/ML PER-<br>CENT | CELLS<br>/ML PER-<br>CENT |
| CYANOPHYTA (BLUE-GREEN ALGAE) |                           |                           |                           |                           |                           |                           |
| ..CYANOPHYCEAE                |                           |                           |                           |                           |                           |                           |
| ...CHROOCOCCACEAE             |                           |                           |                           |                           |                           |                           |
| ...CHROOCOCCACEAE             |                           |                           |                           |                           |                           |                           |
| ...AGMENELLUM                 | -- -                      | -- -                      | -- -                      | 270 3                     | -- -                      | -- -                      |
| ...ANACYSTIS                  | 52# 27                    | -- -                      | 240 11                    | 2800# 35                  | 64 10                     | -- -                      |
| ...HORMOGONALES               |                           |                           |                           |                           |                           |                           |
| ...NOSTOCACEAE                |                           |                           |                           |                           |                           |                           |
| ...ANABAFNA                   | -- -                      | -- -                      | -- -                      | 180 2                     | -- -                      | -- -                      |
| ...CYLINDROSPERMUM            | -- -                      | -- -                      | -- -                      | 890 11                    | -- -                      | -- -                      |
| ...OSCILLATORIACEAE           |                           |                           |                           |                           |                           |                           |
| ...LYNGRYA                    | -- -                      | -- -                      | -- -                      | -- -                      | -- -                      | 930 14                    |
| ...OSCILLATORIA               | -- -                      | 140 7                     | -- -                      | 1200 15                   | 310# 46                   | -- -                      |
| EUGLENOPHYTA (EUGLENOIDS)     |                           |                           |                           |                           |                           |                           |
| ..EUGLENOPHYCEAE              |                           |                           |                           |                           |                           |                           |
| ...EUGLENALES                 |                           |                           |                           |                           |                           |                           |
| ...EUGLENA                    | 13 7                      | -- -                      | 13 1                      | -- -                      | -- -                      | -- -                      |
| ...TRACHELOMONAS              | -- -                      | 14 1                      | -- -                      | 55 1                      | 26 4                      | -- -                      |
| PYRRHOPHYTA (FIRE ALGAE)      |                           |                           |                           |                           |                           |                           |
| ..DINOPHYCEAE                 |                           |                           |                           |                           |                           |                           |
| ...PERIDINIALES               |                           |                           |                           |                           |                           |                           |
| ...GLFNODINIACEAE             |                           |                           |                           |                           |                           |                           |
| ...GLFNODINIUM                | -- -                      | -- -                      | -- -                      | -- -                      | -- -                      | 91 1                      |

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

\* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

## PEARL RIVER BASIN

02492600 PEARL RIVER AT PEARL RIVER, LA

LOCATION.--Lat 30°23'06", long 89°44'12", in NW1/4NW1/4 sec. 6, T.8 S., R.15 E., St. Helena meridian, St. Tammany Parish, Hydrologic Unit 03180004, on left fender at downstream side of Southern Railway bridge over West Pearl River, 700 ft (213 m) upstream from Interstate Highway 59, and 0.8 mi (1.3 km) northeast of town of Pearl River.

DRAINAGE AREA.--8,494 mi<sup>2</sup> (21,999 km<sup>2</sup>), revised, includes East Pearl River.

PERIOD OF RECORD.--October 1963 to September 1970. October 1975 to current year (gage heights and discharge measurements only). Daily discharge records October 1961 to September 1963 and gage heights only October 1970 to September 1975 in files of Corps of Engineers, Mobile district. Gage-height records since June 1906 are in reports of National Weather Service and gage-height records October 1899 to May 1906 (collected by Southern Railway System) are in files of National Weather Service, Meridian, MS.

GAGE.--Water-stage recorder. Datum of gage is 0.05 ft or 0.015 m (corrected) below National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers Mobile District). Prior to September 1970, supplemental gage located on East Pearl River at different datum for the determination of daily mean discharge for the entire flood plain.

REMARKS.--Records of daily discharge are the combined flow of the entire flood plain of the West and East Pearl Rivers. Records since October 1975 represent stages for the West Pearl River only.

AVERAGE DISCHARGE.--7 years (water years 1964-70) 9,470 ft<sup>3</sup>/s (268.2 m<sup>3</sup>/s), 14.97 in/yr (380 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 155,000 ft<sup>3</sup>/s (4,390 m<sup>3</sup>/s) Apr. 26, 1979; maximum gage height, 19.75 ft or 6.020 m (revised), from floodmark, Apr. 1, 1980, discharge not determined; minimum daily discharge, 1,580 ft<sup>3</sup>/s (44.7 m<sup>3</sup>/s) Oct. 24, Nov. 10, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed since October 1899 is that of Apr. 26, 1979. Flood of 1874 reached a stage of 20.2 ft (6.16 m), furnished by Corps of Engineers. Southern Railway System reported a stage of 19.7 ft (6.00 m) Apr. 19, 1900.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 15.33 ft (4.673 m) Feb. 13; minimum, 3.23 ft (0.985 m) Sept. 30.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
INSTANTANEOUS OBSERVATIONS AT 0800

| DAY  | OCT  | NOV   | DEC   | JAN  | FEB   | MAR   | APR   | MAY  | JUN  | JUL   | AUG  | SEP  |
|------|------|-------|-------|------|-------|-------|-------|------|------|-------|------|------|
| 1    | 4.61 | 8.09  | 11.20 | 5.53 | 6.20  | 7.85  | 11.68 | 5.57 | ---  | 4.60  | 4.52 | 3.89 |
| 2    | 4.92 | 7.21  | 10.94 | 5.47 | 6.31  | 7.64  | 12.35 | 5.40 | ---  | 4.65  | 4.72 | 4.10 |
| 3    | 5.22 | 6.26  | 10.64 | 5.40 | 6.44  | 7.42  | 12.84 | 5.28 | ---  | 4.85  | 4.20 | 4.19 |
| 4    | 5.28 | 5.95  | 10.32 | 5.37 | 7.09  | 7.20  | 13.08 | 5.21 | ---  | 5.78  | 4.07 | 4.50 |
| 5    | 5.12 | 5.93  | 10.01 | 5.30 | 6.46  | 7.07  | 13.35 | 5.32 | ---  | 7.90  | 3.90 | 4.92 |
| 6    | 4.79 | 5.93  | 9.70  | 5.31 | 8.17  | 7.01  | 13.30 | 5.42 | ---  | 10.11 | 3.97 | 5.28 |
| 7    | 4.58 | 5.87  | 9.31  | 5.38 | 9.43  | 7.98  | 13.18 | 5.41 | ---  | 11.66 | ---  | 5.22 |
| 8    | 4.40 | 5.87  | 8.84  | 5.38 | 10.44 | 9.86  | 13.14 | 5.38 | ---  | 12.50 | ---  | 4.86 |
| 9    | 4.27 | 5.82  | 8.40  | 5.50 | 11.02 | 11.59 | 13.16 | 5.28 | ---  | 12.27 | ---  | 4.56 |
| 10   | 4.19 | 5.82  | 8.15  | 5.72 | 11.81 | 12.64 | 13.24 | 5.24 | ---  | 11.01 | ---  | 4.46 |
| 11   | 4.15 | 5.81  | 8.02  | 5.77 | 13.58 | 12.98 | 13.36 | 5.02 | ---  | 9.33  | ---  | 4.26 |
| 12   | 4.05 | 5.79  | 8.38  | 5.79 | 14.85 | 12.84 | 13.50 | 4.87 | ---  | 7.90  | ---  | 4.01 |
| 13   | 4.06 | 5.81  | 9.15  | 5.90 | 15.33 | 12.60 | 13.59 | 4.81 | ---  | 7.30  | ---  | 3.78 |
| 14   | 4.04 | 5.83  | 9.65  | 5.98 | 14.70 | 12.34 | 13.67 | 4.75 | ---  | 7.05  | ---  | 3.69 |
| 15   | 3.99 | 5.83  | 9.50  | 5.98 | 14.52 | 12.07 | 13.66 | 5.00 | ---  | 6.66  | ---  | 3.66 |
| 16   | 4.09 | 5.79  | 8.83  | 5.91 | 12.47 | 11.83 | 13.58 | 5.11 | ---  | 6.07  | 3.55 | 3.56 |
| 17   | 4.14 | 5.85  | 8.22  | 5.82 | 11.87 | 11.48 | 13.50 | 5.08 | ---  | 5.59  | ---  | 3.87 |
| 18   | 4.13 | 5.88  | 7.82  | 5.75 | 11.34 | 11.02 | 13.36 | 5.05 | ---  | 5.13  | ---  | 4.27 |
| 19   | 4.36 | 5.95  | 7.61  | 5.65 | 11.17 | 10.29 | 12.99 | 4.86 | ---  | 4.79  | ---  | 4.38 |
| 20   | 4.89 | 6.71  | 7.49  | 5.50 | 10.93 | 9.41  | 12.19 | 4.76 | ---  | 4.56  | ---  | 4.37 |
| 21   | 5.57 | 7.36  | 7.25  | 5.36 | 10.50 | 8.60  | 10.60 | 4.65 | ---  | 4.36  | ---  | 4.23 |
| 22   | 5.59 | 7.83  | 6.97  | 5.28 | 10.02 | 8.17  | 9.10  | 4.65 | ---  | 4.23  | ---  | 4.04 |
| 23   | 5.27 | 8.15  | 6.68  | 5.36 | 9.53  | 8.16  | 7.90  | 5.80 | 4.94 | 4.12  | ---  | 3.82 |
| 24   | 5.28 | 8.19  | 6.50  | 5.45 | 9.00  | 8.52  | 7.20  | 7.51 | 4.66 | 4.05  | ---  | 3.60 |
| 25   | 5.26 | 8.30  | 6.33  | 5.45 | 8.50  | 9.10  | 6.72  | 8.58 | 4.77 | 4.04  | ---  | 3.50 |
| 26   | 5.12 | 8.71  | 6.32  | 5.42 | 8.18  | 9.55  | 6.43  | ---  | 4.99 | 3.93  | ---  | 3.46 |
| 27   | 5.04 | 9.60  | 6.33  | 5.47 | 8.12  | 11.06 | 6.22  | ---  | 5.10 | 3.95  | ---  | 3.51 |
| 28   | 5.22 | 9.31  | 6.20  | 5.68 | 8.06  | 11.14 | 6.16  | ---  | 5.06 | 3.86  | 3.71 | 3.43 |
| 29   | 5.79 | 11.02 | 5.93  | 5.96 | ---   | 9.58  | 6.02  | ---  | 4.91 | 3.78  | 3.72 | 3.33 |
| 30   | 7.92 | 11.33 | 5.72  | 6.09 | ---   | 9.76  | 5.78  | ---  | 4.82 | 3.86  | 3.54 | 3.31 |
| 31   | 7.97 | ---   | 5.60  | 6.10 | ---   | 10.82 | ---   | ---  | ---  | 4.15  | 3.68 | ---  |
| MEAN | 4.95 | 7.06  | 8.13  | 5.61 | 10.25 | 9.92  | 11.16 | ---  | ---  | 6.26  | ---  | 4.07 |
| MAX  | 7.97 | 11.33 | 11.20 | 6.10 | 15.33 | 12.98 | 13.67 | 4.65 | ---  | 12.50 | ---  | 5.28 |
| MIN  | 3.99 | 5.79  | 5.60  | 5.28 | 6.20  | 7.01  | 5.78  | ---  | ---  | 3.78  | ---  | 3.31 |



LOWER MISSISSIPPI RIVER BASIN

53

MISSISSIPPI RIVER MAIN STEM

07295100 MISSISSIPPI RIVER AT TARBERT LANDING, MS

LOCATION.--Lat 31°00'30", long 91°37'25", in lot 6, T. 1 N., R. 5 W., Wilkinson County, Hydrologic Unit 08060100, near left bank at Tarbert Landing, 2.5 mi (4.0 km) upstream from Lower Old River, 8.2 mi (13.2 km) downstream from inlet channel to Old River Control Structure, and at river mile 306.3 (492.8 km).

DRAINAGE AREA.--1,124,900 mi<sup>2</sup> (2,913,500 km<sup>2</sup>), contributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to September 1980 (see NOTE). Elevation, intermittently, 1932 to September 1980 discharge, intermittently, 1911-13, 1928-29, and 1932-36; and discharges computed daily since 1936 are in reports of Corps of Engineers.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Natural flow of stream affected by many reservoirs and navigation dams. Since July 12, 1963, all of the Red River flow is noncontributing and controlled diversion of the Mississippi River flow into Atchafalaya River basin by way of Old River Control Structure.

COOPERATION.--Records of elevation and daily discharges furnished by Corps of Engineers.

AVERAGE DISCHARGE.--8 years (water years 1973-80), 537,000 ft<sup>3</sup>/s (15,210 m<sup>3</sup>/s), 389,020,000 acre-ft/yr (480 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,500,000 ft<sup>3</sup>/s (42,500 m<sup>3</sup>/s) May 16, 1973, elevation, 54.61 ft (16.645 m); minimum daily, 160,000 ft<sup>3</sup>/s (4,530 m<sup>3</sup>/s) Sept. 26, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed since at least 1936, 1,980,000 ft<sup>3</sup>/s (56,100 m<sup>3</sup>/s) Feb. 19, 1937; minimum, 85,000 ft<sup>3</sup>/s (2,410 m<sup>3</sup>/s) Nov. 4, 1939.

EXTREMES FOR CURRENT YEAR.--Water year 1980: Maximum daily discharge, 1,049,800 ft<sup>3</sup>/s (29,700 m<sup>3</sup>/s) Apr. 14, elevation, 52.14 ft (15.892 m); minimum daily, 247,000 ft<sup>3</sup>/s (7,000 m<sup>3</sup>/s) Aug. 13.

NOTE.--Records for the 1981 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

| DAY               | OCT       | NOV      | DEC      | JAN         | FEB         | MAR        | APR      | MAY      | JUN      | JUL      | AUG     | SEP     |
|-------------------|-----------|----------|----------|-------------|-------------|------------|----------|----------|----------|----------|---------|---------|
| 1                 | 541000    | 288000   | 543000   | 492000      | 565000      | 366000     | 931000   | 969000   | 585000   | 414000   | 274000  | 349000  |
| 2                 | 545000    | 279000   | 570000   | 515000      | 557000      | 367000     | 941000   | 958000   | 579000   | 400000   | 277000  | 351000  |
| 3                 | 550000    | 271000   | 607000   | 531000      | 544000      | 375000     | 958000   | 946000   | 568000   | 381000   | 279000  | 355000  |
| 4                 | 558000    | 268000   | 628000   | 553000      | 525000      | 388000     | 966000   | 923000   | 552000   | 366000   | 280000  | 349000  |
| 5                 | 553000    | 265000   | 647000   | 573000      | 507000      | 404000     | 974000   | 893000   | 534000   | 357000   | 273000  | 340000  |
| 6                 | 548000    | 265000   | 674000   | 585000      | 486000      | 420000     | 983000   | 862000   | 512000   | 351000   | 264000  | 324000  |
| 7                 | 538000    | 265000   | 693000   | 598000      | 458000      | 430000     | 989000   | 829000   | 494000   | 348000   | 258000  | 305000  |
| 8                 | 527000    | 261000   | 701000   | 604000      | 433000      | 426000     | 991000   | 791000   | 461000   | 343000   | 258000  | 295000  |
| 9                 | 502000    | 267000   | 706000   | 604000      | 423000      | 414000     | 998000   | 756000   | 428000   | 339000   | 260000  | 269000  |
| 10                | 502000    | 283000   | 709000   | 584000      | 463000      | 395000     | 1000000  | 721000   | 411000   | 337000   | 259000  | 263000  |
| 11                | 487000    | 304000   | 685000   | 584000      | 433000      | 385000     | 1010000  | 684000   | 410000   | 337000   | 257000  | 263000  |
| 12                | 468000    | 330000   | 667000   | 585000      | 423000      | 372000     | 1020000  | 646000   | 424000   | 338000   | 250000  | 267000  |
| 13                | 456000    | 351000   | 655000   | 541000      | 406000      | 366000     | 1040000  | 616000   | 448000   | 336000   | 247000  | 269000  |
| 14                | 439000    | 367000   | 651000   | 501000      | 388000      | 372000     | 1050000  | 582000   | 468000   | 333000   | 249000  | 273000  |
| 15                | 422000    | 397000   | 621000   | 477000      | 376000      | 397000     | 1050000  | 545000   | 497000   | 328000   | 253000  | 278000  |
| 16                | 410000    | 401000   | 597000   | 461000      | 366000      | 443000     | 1050000  | 521000   | 521000   | 324000   | 257000  | 282000  |
| 17                | 395000    | 414000   | 584000   | 446000      | 357000      | 512000     | 1040000  | 534000   | 522000   | 317000   | 259000  | 283000  |
| 18                | 382000    | 421000   | 553000   | 439000      | 352000      | 561000     | 1040000  | 507000   | 513000   | 309000   | 260000  | 281000  |
| 19                | 371000    | 431000   | 531000   | 423000      | 350000      | 600000     | 1030000  | 476000   | 504000   | 309000   | 259000  | 275000  |
| 20                | 364000    | 432000   | 519000   | 426000      | 348000      | 635000     | 1030000  | 478000   | 500000   | 310000   | 260000  | 267000  |
| 21                | 361000    | 430000   | 510000   | 437000      | 351000      | 687000     | 1020000  | 478000   | 483000   | 316000   | 262000  | 260000  |
| 22                | 357000    | 426000   | 503000   | 444000      | 352000      | 712000     | 1010000  | 478000   | 468000   | 327000   | 269000  | 255000  |
| 23                | 359000    | 428000   | 510000   | 485000      | 349000      | 730000     | 1000000  | 489000   | 457000   | 330000   | 280000  | 252000  |
| 24                | 360000    | 451000   | 524000   | 507000      | 351000      | 752000     | 1000000  | 486000   | 453000   | 341000   | 291000  | 252000  |
| 25                | 359000    | 480000   | 533000   | 531000      | 351000      | 768000     | 998000   | 509000   | 449000   | 345000   | 303000  | 252000  |
| 26                | 355000    | 512000   | 532000   | 550000      | 356000      | 784000     | 1000000  | 547000   | 447000   | 343000   | 311000  | 254000  |
| 27                | 346000    | 528000   | 529000   | 558000      | 365000      | 805000     | 997000   | 574000   | 443000   | 331000   | 317000  | 254000  |
| 28                | 332000    | 532000   | 525000   | 561000      | 365000      | 851000     | 995000   | 593000   | 439000   | 318000   | 324000  | 256000  |
| 29                | 312000    | 533000   | 510000   | 561000      | 365000      | 885000     | 989000   | 598000   | 432000   | 303000   | 331000  | 258000  |
| 30                | 301000    | 538000   | 492000   | 568000      | ---         | 903000     | 982000   | 597000   | 420000   | 285000   | 339000  | 261000  |
| 31                | 295000    | ---      | 480000   | 568000      | ---         | 920000     | ---      | 592000   | ---      | 274000   | 345000  | ---     |
| TOTAL             | 13295000  | 11418000 | 18189000 | 16292000    | 11965000    | 17425000   | 30082000 | 20178000 | 14422000 | 10390000 | 8605000 | 8482000 |
| MEAN              | 428900    | 380600   | 586700   | 525500      | 412600      | 562100     | 1003000  | 650900   | 480700   | 335200   | 277600  | 282700  |
| MAX               | 558000    | 538000   | 709000   | 604000      | 565000      | 920000     | 1050000  | 969000   | 585000   | 414000   | 345000  | 355000  |
| MIN               | 295000    | 261000   | 480000   | 423000      | 348000      | 366000     | 931000   | 476000   | 410000   | 274000   | 247000  | 252000  |
| CAL YR 1979 TOTAL | 258538000 |          |          | MEAN 708300 | MAX 1420000 | MIN 261000 |          |          |          |          |         |         |
| WTR YR 1980 TOTAL | 180743000 |          |          | MEAN 493800 | MAX 1050000 | MIN 247000 |          |          |          |          |         |         |

## LOWER MISSISSIPPI RIVER BASIN

## MISSISSIPPI RIVER MAIN STEM

07295100 MISSISSIPPI RIVER AT TARBERT LANDING, MS--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
INSTANTANEOUS OBSERVATIONS AT 0800

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1    | 34.07 | 23.08 | 34.57 | 33.22 | 35.49 | 27.98 | 48.27 | 49.65 | 36.19 | 30.75 | 19.74 | 24.82 |
| 2    | 34.19 | 22.61 | 35.70 | 34.00 | 35.24 | 28.07 | 48.67 | 49.20 | 35.99 | 29.77 | 19.96 | 24.91 |
| 3    | 34.47 | 22.19 | 37.02 | 34.57 | 34.82 | 28.45 | 49.24 | 48.79 | 35.59 | 28.90 | 20.16 | 25.21 |
| 4    | 34.70 | 21.97 | 37.72 | 35.23 | 34.20 | 29.24 | 49.52 | 47.97 | 35.13 | 28.07 | 20.09 | 24.78 |
| 5    | 34.64 | 21.89 | 38.35 | 35.78 | 33.60 | 30.08 | 49.73 | 46.77 | 34.53 | 27.27 | 19.66 | 24.15 |
| 6    | 34.37 | 21.94 | 39.19 | 36.29 | 32.88 | 30.67 | 50.02 | 45.56 | 33.82 | 26.73 | 19.07 | 23.11 |
| 7    | 33.97 | 21.89 | 39.72 | 36.56 | 32.00 | 31.03 | 50.30 | 44.34 | 33.18 | 26.35 | 18.72 | 21.89 |
| 8    | 33.36 | 21.76 | 39.95 | 36.80 | 31.12 | 30.92 | 50.41 | 43.03 | 32.10 | 25.71 | 18.70 | 20.63 |
| 9    | 32.74 | 22.11 | 40.13 | 36.73 | 30.78 | 30.41 | 50.58 | 41.66 | 30.93 | 25.35 | 18.88 | 19.60 |
| 10   | 32.62 | 23.06 | 40.19 | 36.15 | 32.13 | 29.60 | 50.67 | 40.54 | 30.34 | 25.15 | 18.78 | 19.06 |
| 11   | 32.01 | 24.05 | 39.93 | 36.30 | 31.03 | 29.12 | 50.84 | 39.31 | 30.29 | 25.15 | 18.69 | 19.18 |
| 12   | 31.26 | 25.51 | 39.60 | 36.18 | 30.61 | 28.42 | 51.25 | 38.09 | 30.84 | 25.20 | 18.26 | 19.29 |
| 13   | 30.79 | 27.01 | 39.32 | 34.83 | 30.00 | 27.98 | 51.85 | 37.11 | 31.72 | 24.90 | 17.96 | 19.52 |
| 14   | 30.02 | 28.17 | 39.19 | 33.46 | 29.23 | 28.52 | 52.09 | 35.99 | 32.42 | 24.45 | 17.97 | 19.80 |
| 15   | 29.32 | 28.45 | 38.31 | 32.72 | 28.62 | 29.81 | 52.07 | 34.87 | 33.39 | 23.90 | 18.31 | 20.11 |
| 16   | 28.82 | 28.57 | 37.22 | 32.15 | 27.96 | 31.65 | 52.07 | 34.06 | 34.10 | 23.40 | 18.58 | 20.38 |
| 17   | 28.17 | 29.22 | 36.01 | 31.64 | 27.35 | 33.96 | 51.88 | 34.59 | 34.16 | 22.55 | 18.83 | 20.43 |
| 18   | 27.61 | 29.62 | 35.11 | 31.17 | 26.97 | 35.49 | 51.78 | 33.63 | 33.84 | 22.00 | 18.88 | 20.31 |
| 19   | 27.23 | 29.95 | 34.49 | 30.79 | 26.74 | 36.64 | 51.65 | 32.62 | 33.58 | 22.00 | 18.83 | 19.90 |
| 20   | 26.89 | 29.98 | 34.09 | 30.92 | 26.71 | 37.94 | 51.46 | 32.77 | 33.41 | 22.20 | 18.85 | 19.38 |
| 21   | 26.71 | 29.88 | 33.83 | 31.37 | 26.83 | 39.59 | 51.16 | 32.76 | 32.87 | 22.40 | 19.00 | 18.85 |
| 22   | 26.68 | 29.80 | 33.58 | 31.69 | 27.04 | 40.36 | 50.95 | 32.77 | 32.39 | 23.15 | 19.02 | 18.45 |
| 23   | 26.65 | 29.85 | 33.85 | 33.10 | 26.71 | 40.98 | 50.85 | 33.13 | 32.04 | 23.68 | 20.29 | 18.23 |
| 24   | 26.78 | 30.77 | 34.27 | 33.70 | 26.91 | 41.76 | 50.80 | 33.03 | 31.84 | 24.32 | 21.06 | 18.19 |
| 25   | 26.70 | 31.86 | 34.56 | 34.50 | 26.95 | 42.28 | 50.60 | 33.82 | 31.76 | 24.48 | 21.79 | 18.21 |
| 26   | 26.56 | 32.99 | 34.49 | 35.06 | 27.42 | 42.89 | 50.60 | 35.09 | 31.60 | 24.38 | 22.28 | 18.36 |
| 27   | 26.08 | 33.56 | 34.43 | 35.34 | 27.71 | 43.80 | 50.57 | 35.92 | 31.50 | 23.64 | 22.68 | 18.42 |
| 28   | 25.27 | 33.83 | 34.28 | 35.36 | 27.87 | 45.33 | 50.46 | 36.54 | 31.31 | 22.57 | 23.05 | 18.50 |
| 29   | 24.40 | 33.85 | 33.79 | 35.45 | 27.90 | 46.20 | 50.24 | 36.60 | 31.08 | 21.56 | 23.60 | 18.72 |
| 30   | 23.94 | 34.05 | 33.14 | 35.60 | ---   | 47.20 | 49.96 | 36.56 | 30.60 | 20.52 | 24.10 | 18.95 |
| 31   | 23.48 | ---   | 32.84 | 35.64 | ---   | 47.86 | ---   | 36.41 | ---   | 19.80 | 24.51 | ---   |
| MEAN | 29.50 | 27.45 | 36.42 | 34.27 | 29.75 | 35.30 | 50.68 | 38.49 | 32.75 | 24.53 | 20.01 | 20.38 |
| MAX  | 34.70 | 34.05 | 40.19 | 36.80 | 35.49 | 47.86 | 52.09 | 49.65 | 36.19 | 30.75 | 24.51 | 25.21 |
| MIN  | 23.48 | 21.76 | 32.84 | 30.79 | 26.71 | 27.98 | 48.27 | 32.62 | 30.29 | 19.80 | 17.96 | 18.19 |

LOWER MISSISSIPPI RIVER BASIN

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MISSISSIPPI RIVER MAIN STEM

07295100 MISSISSIPPI RIVER AT TARBERT LANDING, MS--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973-80.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: October 1972 to September 1980.

REMARKS.--Records for the 1981 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

COOPERATION.--Samples for suspended-sediment analysis are collected by the Corps of Engineers and analyzed by the Geological Survey. Daily suspended-sediment discharge records are computed by the Geological Survey and reviewed by the Corps of Engineers. Corps of Engineers station 01100.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 2,290,000 tons (2,080,000 tonnes) Oct. 6, 1976; minimum daily, 24,000 tons (21,800 tonnes) Aug. 15, 1977.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

| DAY         | OCT     | NOV       | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL     | AUG     | SEP     |
|-------------|---------|-----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|
| 1           | 401000  | 152000    | 372000   | 407000   | 509000   | 271000   | 957000   | 843000   | 275000   | 472000  | 214000  | 200000  |
| 2           | 404000  | 149000    | 396000   | 442000   | 524000   | 269000   | 942000   | 836000   | 254000   | 444000  | 205000  | 205000  |
| 3           | 409000  | 145000    | 431000   | 469000   | 533000   | 274000   | 937000   | 827000   | 232000   | 408000  | 194000  | 211000  |
| 4           | 416000  | 146000    | 450000   | 506000   | 534000   | 285000   | 920000   | 805000   | 245000   | 379000  | 183000  | 210000  |
| 5           | 410000  | 147000    | 467000   | 527000   | 535000   | 298000   | 903000   | 775000   | 257000   | 360000  | 166000  | 206000  |
| 6           | 404000  | 146000    | 492000   | 537000   | 530000   | 312000   | 887000   | 760000   | 266000   | 345000  | 149000  | 195000  |
| 7           | 393000  | 146000    | 510000   | 548000   | 514000   | 319000   | 868000   | 741000   | 279000   | 335000  | 136000  | 183000  |
| 8           | 382000  | 143000    | 516000   | 551000   | 500000   | 312000   | 845000   | 714000   | 278000   | 323000  | 128000  | 169000  |
| 9           | 356000  | 147000    | 519000   | 546000   | 509000   | 297000   | 828000   | 691000   | 276000   | 312000  | 121000  | 159000  |
| 10          | 355000  | 159000    | 521000   | 516000   | 606000   | 275000   | 806000   | 666000   | 287000   | 304000  | 113000  | 154000  |
| 11          | 333000  | 176000    | 495000   | 511000   | 581000   | 272000   | 814000   | 637000   | 314000   | 299000  | 105000  | 154000  |
| 12          | 308000  | 197000    | 475000   | 508000   | 543000   | 265000   | 831000   | 606000   | 362000   | 295000  | 95000   | 157000  |
| 13          | 291000  | 214000    | 462000   | 451000   | 496000   | 264000   | 853000   | 584000   | 429000   | 287000  | 95000   | 158000  |
| 14          | 270000  | 227000    | 456000   | 402000   | 450000   | 276000   | 866000   | 556000   | 501000   | 278000  | 97000   | 161000  |
| 15          | 250000  | 253000    | 426000   | 372000   | 416000   | 309000   | 863000   | 522000   | 599000   | 268000  | 101000  | 165000  |
| 16          | 235000  | 256000    | 402000   | 352000   | 387000   | 367000   | 866000   | 505000   | 702000   | 267000  | 104000  | 169000  |
| 17          | 218000  | 267000    | 388000   | 333000   | 362000   | 458000   | 858000   | 538000   | 774000   | 263000  | 107000  | 169000  |
| 18          | 203000  | 273000    | 367000   | 323000   | 343000   | 531000   | 860000   | 515000   | 746000   | 258000  | 109000  | 168000  |
| 19          | 191000  | 282000    | 353000   | 304000   | 328000   | 596000   | 855000   | 486000   | 719000   | 262000  | 110000  | 163000  |
| 20          | 182000  | 282000    | 349000   | 304000   | 315000   | 658000   | 850000   | 458000   | 703000   | 267000  | 112000  | 156000  |
| 21          | 176000  | 279000    | 347000   | 312000   | 308000   | 750000   | 837000   | 429000   | 662000   | 279000  | 114000  | 150000  |
| 22          | 169000  | 274000    | 347000   | 315000   | 299000   | 805000   | 837000   | 401000   | 625000   | 297000  | 120000  | 146000  |
| 23          | 174000  | 275000    | 361000   | 353000   | 285000   | 851000   | 836000   | 388000   | 598000   | 305000  | 129000  | 144000  |
| 24          | 178000  | 295000    | 381000   | 372000   | 278000   | 906000   | 839000   | 360000   | 583000   | 324000  | 138000  | 142000  |
| 25          | 181000  | 320000    | 398000   | 393000   | 268000   | 905000   | 841000   | 359000   | 569000   | 334000  | 147000  | 140000  |
| 26          | 181000  | 349000    | 405000   | 409000   | 271000   | 904000   | 849000   | 372000   | 558000   | 337000  | 155000  | 139000  |
| 27          | 178000  | 363000    | 409000   | 413000   | 274000   | 909000   | 852000   | 372000   | 545000   | 326000  | 161000  | 137000  |
| 28          | 172000  | 365000    | 413000   | 412000   | 275000   | 953000   | 856000   | 365000   | 531000   | 313000  | 169000  | 136000  |
| 29          | 161000  | 365000    | 404000   | 433000   | 272000   | 976000   | 855000   | 345000   | 513000   | 297000  | 177000  | 136000  |
| 30          | 156000  | 368000    | 392000   | 463000   | ---      | 974000   | 852000   | 323000   | 487000   | 256000  | 186000  | 136000  |
| 31          | 154000  | ---       | 386000   | 487000   | ---      | 970000   | ---      | 299000   | ---      | 228000  | 194000  | ---     |
| TOTAL       | 8291000 | 7160000   | 13090000 | 13271000 | 12045000 | 16811000 | 25863000 | 17078000 | 14169000 | 9722000 | 4334000 | 4918000 |
| MEAN        | 267000  | 239000    | 422000   | 428000   | 415000   | 542000   | 862000   | 551000   | 472000   | 314000  | 140000  | 164000  |
| MAX         | 416000  | 368000    | 521000   | 551000   | 606000   | 976000   | 957000   | 843000   | 774000   | 472000  | 214000  | 211000  |
| MIN         | 154000  | 143000    | 347000   | 304000   | 268000   | 264000   | 806000   | 299000   | 232000   | 228000  | 95000   | 136000  |
| WTR YR 1980 | TOTAL   | 146752000 |          | MEAN     | 401000   | MAX      | 976000   | MIN      | 95000    |         |         |         |

## LOWER MISSISSIPPI RIVER BASIN

## MISSISSIPPI RIVER MAIN STEM

07295100 MISSISSIPPI RIVER AT TARBERT LANDING, MS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

| DATE  | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDED<br>(T/DAY) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|-------|-------------------------------------------------|--------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|
| OCT   |                                                 |                                            |                                                                |                                                               |
| 10... | 464000                                          | 284                                        | 356000                                                         | 77                                                            |
| 22... | 369000                                          | 170                                        | 169000                                                         | 78                                                            |
| NOV   |                                                 |                                            |                                                                |                                                               |
| 05... | 269000                                          | 202                                        | 147000                                                         | 77                                                            |
| 19... | 418000                                          | 250                                        | 282000                                                         | 80                                                            |
| DEC   |                                                 |                                            |                                                                |                                                               |
| 17... | 558000                                          | 258                                        | 389000                                                         | 69                                                            |
| JAN   |                                                 |                                            |                                                                |                                                               |
| 04... | 544000                                          | 345                                        | 507000                                                         | 55                                                            |
| 18... | 448000                                          | 267                                        | 323000                                                         | 76                                                            |
| 28... | 538000                                          | 284                                        | 413000                                                         | 76                                                            |
| FEB   |                                                 |                                            |                                                                |                                                               |
| 11... | 430000                                          | 501                                        | 582000                                                         | 89                                                            |
| 25... | 381000                                          | 261                                        | 268000                                                         | 83                                                            |
| MAR   |                                                 |                                            |                                                                |                                                               |
| 10... | 407000                                          | 251                                        | 276000                                                         | 84                                                            |
| 24... | 760000                                          | 442                                        | 907000                                                         | 81                                                            |
| APR   |                                                 |                                            |                                                                |                                                               |
| 10... | 1050000                                         | 284                                        | 805000                                                         | 70                                                            |
| 21... | 1000000                                         | 309                                        | 834000                                                         | 70                                                            |
| MAY   |                                                 |                                            |                                                                |                                                               |
| 05... | 821000                                          | 350                                        | 776000                                                         | 83                                                            |
| 19... | 444000                                          | 406                                        | 487000                                                         | 97                                                            |
| JUN   |                                                 |                                            |                                                                |                                                               |
| 03... | 530000                                          | 162                                        | 232000                                                         | 85                                                            |
| 17... | 501000                                          | 573                                        | 775000                                                         | 94                                                            |
| JUL   |                                                 |                                            |                                                                |                                                               |
| 02... | 427000                                          | 386                                        | 445000                                                         | 97                                                            |
| 15... | 346000                                          | 287                                        | 268000                                                         | 95                                                            |
| 29... | 296000                                          | 372                                        | 297000                                                         | 96                                                            |
| AUG   |                                                 |                                            |                                                                |                                                               |
| 12... | 231000                                          | 153                                        | 95400                                                          | 98                                                            |
| 26... | 302000                                          | 190                                        | 155000                                                         | 96                                                            |
| SEP   |                                                 |                                            |                                                                |                                                               |
| 09... | 271000                                          | 217                                        | 159000                                                         | 97                                                            |
| 23... | 238000                                          | 224                                        | 144000                                                         | 96                                                            |

310801091430900 RED RIVER NEAR SIMMESPORT, LA  
(National stream-quality accounting network station)

LOCATION.--Lat 31°08'01", long 91°43'09", in sec. 24, T.2 N., R.7 E., St. Helena Meridian, Avoyelles-Concordia Parish line, Hydrologic Unit 08040301, 8.2 mi (13.2 km) northwest of Old River Control Structure, 11.5 mi (18.5 km) north-northeast of Simmesport, and at mile 16.0 (25.7 km).

DRAINAGE AREA.--93,163 mi<sup>2</sup> (241,292 km<sup>2</sup>).

PERIOD OF RECORD.--Water years 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1978 to September 1981 (discontinued).

WATER TEMPERATURES: April 1978 to September 1979, October 1980 to September 1981 (discontinued).

COOPERATION.--Discharge records furnished by the Corps of Engineers.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,490 micromhos July 1, 1978; minimum daily, 104 micromhos Feb. 13-15, 1979.

WATER TEMPERATURES: Maximum daily, 35.0°C July 3, 6, 1979; minimum daily, 5.0°C Jan. 14, 1979.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 964 micromhos Sept. 23-28; minimum daily, 220 micromhos Mar. 18.

WATER TEMPERATURES: Maximum daily, 34.0°C July 6, 25, 27, Sept. 13; minimum daily, 7.0°C Feb. 13.

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

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCTI-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>CORAL<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) |
|-------|------|-------------------------------------------------|----------------------------------------------------|---------------|-----------------------------|---------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------|
| OCT   |      |                                                 |                                                    |               |                             |                                             |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 10... | 1100 | 39900                                           | 350                                                | 7.1           | 22.0                        | 30                                          | 82                           | 6.7                                 | .6                                                             | K350                                                           | K2200                                                              | 85                                     |
| NOV   |      |                                                 |                                                    |               |                             |                                             |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 07... | 1130 | 22000                                           | 400                                                | 7.1           | 17.5                        | 40                                          | 35                           | 9.5                                 | 2.4                                                            | 210                                                            | K52000                                                             | 91                                     |
| DEC   |      |                                                 |                                                    |               |                             |                                             |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 05... | 1100 | 29700                                           | 353                                                | 6.8           | 11.5                        | 60                                          | 29                           | 11.0                                | 2.6                                                            | K30                                                            | 390                                                                | 79                                     |
| JAN   |      |                                                 |                                                    |               |                             |                                             |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 09... | 1200 | --                                              | 478                                                | 7.2           | 9.5                         | 30                                          | 40                           | 10.7                                | 4.4                                                            | K28                                                            | K16                                                                | 110                                    |
| FEB   |      |                                                 |                                                    |               |                             |                                             |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 06... | 1100 | 32200                                           | 415                                                | 6.9           | 9.0                         | 70                                          | 220                          | 10.4                                | 2.6                                                            | K500                                                           | 2000                                                               | 94                                     |
| MAR   |      |                                                 |                                                    |               |                             |                                             |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 13... | 1100 | 73600                                           | 262                                                | 6.7           | 14.5                        | 80                                          | 260                          | 7.9                                 | 1.6                                                            | 230                                                            | 220                                                                | 66                                     |
| APR   |      |                                                 |                                                    |               |                             |                                             |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 24... | 1200 | --                                              | 462                                                | 7.0           | 24.5                        | 30                                          | 36                           | 6.9                                 | 2.1                                                            | <5                                                             | 240                                                                | 100                                    |
| MAY   |      |                                                 |                                                    |               |                             |                                             |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 08... | 1200 | --                                              | 443                                                | 7.1           | 20.5                        | 30                                          | 41                           | 8.4                                 | 2.0                                                            | K60                                                            | 140                                                                | 95                                     |
| JUN   |      |                                                 |                                                    |               |                             |                                             |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 04... | 1000 | 92300                                           | 316                                                | 6.6           | 26.5                        | 50                                          | 68                           | 7.0                                 | 1.3                                                            | 100                                                            | K1100                                                              | 69                                     |
| JUL   |      |                                                 |                                                    |               |                             |                                             |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 02... | 1100 | --                                              | 277                                                | 6.7           | --                          | 50                                          | 64                           | 4.9                                 | 1.0                                                            | K85                                                            | 1000                                                               | 71                                     |
| AUG   |      |                                                 |                                                    |               |                             |                                             |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 13... | 1030 | 16800                                           | 702                                                | 8.0           | 32.0                        | 20                                          | 13                           | 7.0                                 | 1.7                                                            | K16                                                            | 600                                                                | 140                                    |
| SEP   |      |                                                 |                                                    |               |                             |                                             |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 10... | 1000 | 17100                                           | 735                                                | 7.7           | 28.5                        | 15                                          | 37                           | 7.6                                 | 2.0                                                            | K20                                                            | 1900                                                               | 150                                    |

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

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



## RED RIVER BASIN

310801091430900 RED RIVER NEAR SIMMESPORT, LA--Continued

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

| DATE      | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>FIELD<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS S04) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITU-<br>ENTS,<br>DIS-<br>SOLVED<br>(MG/L) |
|-----------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|
| OCT 10... | 18                                                     | 24                                           | 6.1                                                  | 37                                           | 2.9                                                 | 67                                                | 26                                            | 50                                                  | .2                                                 | 7.9                                               | 203                                                                | 195                                                                 |
| NOV 07... | 16                                                     | 26                                           | 6.3                                                  | 39                                           | 3.5                                                 | 74                                                | 27                                            | 62                                                  | .2                                                 | 6.3                                               | 225                                                                | 215                                                                 |
| DEC 05... | 22                                                     | 22                                           | 5.8                                                  | 36                                           | 4.0                                                 | 57                                                | 27                                            | 51                                                  | .1                                                 | 7.4                                               | 197                                                                | 188                                                                 |
| JAN 09... | 25                                                     | 32                                           | 6.8                                                  | 49                                           | 3.1                                                 | 89                                                | 32                                            | 75                                                  | .2                                                 | 7.4                                               | 270                                                                | 259                                                                 |
| FEB 06... | 14                                                     | 25                                           | 7.6                                                  | 45                                           | 3.0                                                 | 80                                                | 31                                            | 58                                                  | .1                                                 | 7.5                                               | 231                                                                | 226                                                                 |
| MAR 13... | 15                                                     | 19                                           | 4.5                                                  | 25                                           | 2.4                                                 | 51                                                | 24                                            | 35                                                  | .1                                                 | 6.3                                               | 149                                                                | 148                                                                 |
| APR 24... | 24                                                     | 29                                           | 7.4                                                  | 47                                           | 2.7                                                 | 79                                                | 36                                            | 69                                                  | .2                                                 | 4.9                                               | 263                                                                | 243                                                                 |
| MAY 08... | 38                                                     | 27                                           | 6.8                                                  | 49                                           | 2.3                                                 | 57                                                | 48                                            | 71                                                  | .1                                                 | 4.2                                               | 247                                                                | 243                                                                 |
| JUN 04... | 36                                                     | 18                                           | 5.8                                                  | 32                                           | 2.8                                                 | 33                                                | 43                                            | 53                                                  | .1                                                 | 6.5                                               | 188                                                                | 181                                                                 |
| JUL 02... | 29                                                     | 21                                           | 4.5                                                  | 29                                           | 2.7                                                 | 42                                                | 27                                            | 44                                                  | .1                                                 | 7.8                                               | 175                                                                | 161                                                                 |
| AUG 13... | 59                                                     | 39                                           | 11                                                   | 80                                           | 3.1                                                 | 84                                                | 69                                            | 120                                                 | .1                                                 | 3.8                                               | 374                                                                | 376                                                                 |
| SEP 10... | 68                                                     | 41                                           | 12                                                   | 80                                           | 3.9                                                 | 84                                                | 72                                            | 130                                                 | .2                                                 | 2.4                                               | 399                                                                | 390                                                                 |

| DATE      | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARRON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>SUS-<br>PENDED<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|
| OCT 10... | .81                                                  | .74                                                           | .11                                                  | .07                                                           | 1.7                                                                 | .91                                                                          | .24                                         | .00                                                  | --                                            | 8.0                                                    | 1.8                                                             |
| NOV 07... | .35                                                  | .34                                                           | .23                                                  | .19                                                           | 1.0                                                                 | .81                                                                          | .28                                         | .06                                                  | 9.6                                           | --                                                     | --                                                              |
| DEC 05... | .39                                                  | .39                                                           | .01                                                  | .01                                                           | .99                                                                 | 1.1                                                                          | .08                                         | .08                                                  | 8.6                                           | --                                                     | --                                                              |
| JAN 09... | .22                                                  | .20                                                           | --                                                   | .16                                                           | 2.4                                                                 | 1.7                                                                          | .06                                         | .03                                                  | --                                            | 8.6                                                    | .4                                                              |
| FEB 06... | .50                                                  | .54                                                           | .18                                                  | .15                                                           | 1.2                                                                 | 1.1                                                                          | .54                                         | .32                                                  | 16                                            | --                                                     | --                                                              |
| MAR 13... | .55                                                  | .54                                                           | .11                                                  | .10                                                           | 1.3                                                                 | 1.2                                                                          | .18                                         | .06                                                  | 13                                            | --                                                     | --                                                              |
| APR 24... | .18                                                  | .21                                                           | .07                                                  | .11                                                           | .60                                                                 | .62                                                                          | .14                                         | .08                                                  | --                                            | 7.4                                                    | .9                                                              |
| MAY 08... | .47                                                  | .46                                                           | .12                                                  | .07                                                           | .95                                                                 | .82                                                                          | .22                                         | .17                                                  | 9.6                                           | --                                                     | --                                                              |
| JUN 04... | .21                                                  | .24                                                           | --                                                   | .22                                                           | 1.4                                                                 | 1.4                                                                          | .15                                         | .07                                                  | 9.2                                           | --                                                     | --                                                              |
| JUL 02... | .16                                                  | .17                                                           | .12                                                  | .15                                                           | 1.2                                                                 | 1.1                                                                          | .13                                         | .05                                                  | --                                            | 9.0                                                    | 1.5                                                             |
| AUG 13... | --                                                   | .18                                                           | --                                                   | .14                                                           | .98                                                                 | .68                                                                          | .12                                         | .04                                                  | 7.3                                           | --                                                     | --                                                              |
| SEP 10... | .04                                                  | .04                                                           | <.06                                                 | <.06                                                          | 1.4                                                                 | .95                                                                          | --                                          | .01                                                  | 9.2                                           | --                                                     | --                                                              |

&lt; Actual value is known to be less than the value shown.

## RED RIVER BASIN

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310801091430900 RED RIVER NEAR SIMMESPORT, LA--Continued

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

| DATE         | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BA) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) |
|--------------|-------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|
| OCT<br>10... | 2                                   | 1                                            | 100                                                     | 90                                           | 0                                                       | 1                                            | 10                                                             | 0                                                   | 5                                                       | <3                                           |
| JAN<br>09... | 1                                   | 1                                            | 100                                                     | 100                                          | 1                                                       | 1                                            | 0                                                              | 0                                                   | --                                                      | <3                                           |
| APR<br>24... | 1                                   | 1                                            | 200                                                     | 100                                          | 0                                                       | <1                                           | 20                                                             | 0                                                   | 4                                                       | <3                                           |
| JUL<br>02... | 3                                   | 1                                            | 100                                                     | 100                                          | 0                                                       | <1                                           | 20                                                             | 0                                                   | 1                                                       | <1                                           |

| DATE         | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) |
|--------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|
| OCT<br>10... | 23                                                      | 2                                            | 7000                                                  | 50                                         | 5                                                     | 3                                          | 290                                                             | 9                                                    | .1                                                      |
| JAN<br>09... | 12                                                      | 4                                            | 1800                                                  | 80                                         | 7                                                     | 0                                          | 160                                                             | 80                                                   | .1                                                      |
| APR<br>24... | 9                                                       | 5                                            | 1600                                                  | 60                                         | 4                                                     | 5                                          | 90                                                              | 20                                                   | .1                                                      |
| JUL<br>02... | 8                                                       | 3                                            | 3700                                                  | 250                                        | 6                                                     | 2                                          | 150                                                             | 20                                                   | .2                                                      |

| DATE         | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AG) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| OCT<br>10... | .0                                           | 11                                                      | 1                                            | 0                                                              | 0                                                   | 0                                                       | 0                                            | 40                                                    | 5                                          |
| JAN<br>09... | .3                                           | 3                                                       | 3                                            | 0                                                              | 0                                                   | --                                                      | 6                                            | 30                                                    | 20                                         |
| APR<br>24... | .0                                           | 1                                                       | 1                                            | 0                                                              | 0                                                   | 0                                                       | 0                                            | 30                                                    | 7                                          |
| JUL<br>02... | .0                                           | 6                                                       | 2                                            | 0                                                              | 0                                                   | 0                                                       | 0                                            | --                                                    | 20                                         |

&lt; Actual value is known to be less than the value shown.

## RED RIVER BASIN

310801091430900 RED RIVER NEAR SIMMESPORT, LA--Continued  
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DATE  | PHYTO-<br>PLANK-<br>TON,<br>TOTAL<br>(CELLS<br>PER ML) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDED<br>(T/DAY) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|-------|--------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|
| OCT   |                                                        |                                            |                                                                |                                                               |
| 10... | --                                                     | 361                                        | 38800                                                          | 95                                                            |
| NOV   |                                                        |                                            |                                                                |                                                               |
| 07... | --                                                     | 212                                        | 12600                                                          | 98                                                            |
| DEC   |                                                        |                                            |                                                                |                                                               |
| 05... | 22000                                                  | 145                                        | 11600                                                          | 98                                                            |
| JAN   |                                                        |                                            |                                                                |                                                               |
| 09... | --                                                     | 118                                        | --                                                             | 96                                                            |
| FEB   |                                                        |                                            |                                                                |                                                               |
| 06... | --                                                     | 306                                        | 26600                                                          | 100                                                           |
| MAR   |                                                        |                                            |                                                                |                                                               |
| 13... | 3300                                                   | 399                                        | 77300                                                          | 98                                                            |
| APR   |                                                        |                                            |                                                                |                                                               |
| 24... | --                                                     | 86                                         | --                                                             | 97                                                            |
| MAY   |                                                        |                                            |                                                                |                                                               |
| 08... | 13000                                                  | 108                                        | --                                                             | 96                                                            |
| JUN   |                                                        |                                            |                                                                |                                                               |
| 04... | 8500                                                   | 145                                        | 36100                                                          | 100                                                           |
| JUL   |                                                        |                                            |                                                                |                                                               |
| 02... | 4800                                                   | 178                                        | --                                                             | 71                                                            |
| AUG   |                                                        |                                            |                                                                |                                                               |
| 13... | --                                                     | 85                                         | 3860                                                           | 96                                                            |
| SEP   |                                                        |                                            |                                                                |                                                               |
| 10... | --                                                     | 127                                        | 5860                                                           | 90                                                            |

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 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   | 876 | 519 | 324 | 508 | 561 | 361 | 305 | 492 | 269 | 281 | 450 | 881 |
| 2   | 806 | 504 | 338 | 422 | 566 | 400 | 303 | 483 | 265 | 308 | 450 | 882 |
| 3   | 723 | 508 | 352 | 331 | 564 | 360 | 313 | 541 | 265 | 300 | 450 | 687 |
| 4   | 731 | 435 | 337 | 448 | 484 | 360 | 313 | 540 | 292 | 300 | 450 | 665 |
| 5   | 913 | 434 | 351 | 334 | 558 | 286 | 459 | 540 | 302 | 301 | 450 | 699 |
| 6   | 912 | 384 | 427 | 392 | 426 | 302 | 459 | 540 | 301 | 301 | 545 | 699 |
| 7   | 958 | 376 | 475 | 440 | 422 | 251 | 526 | 495 | 301 | 301 | 538 | 699 |
| 8   | 471 | 481 | 364 | 421 | 437 | 251 | 527 | 439 | 231 | 312 | 602 | 700 |
| 9   | 388 | 542 | --  | 489 | 451 | 270 | 474 | --- | 227 | 328 | 602 | 676 |
| 10  | 355 | 531 | 473 | 487 | 468 | 279 | 485 | --- | 227 | 328 | 603 | 678 |
| 11  | 342 | 463 | 501 | 489 | 431 | 316 | 428 | --- | 372 | 328 | 603 | 704 |
| 12  | 318 | 469 | 422 | 554 | 467 | 389 | 434 | 396 | 369 | 327 | 757 | 706 |
| 13  | 309 | 484 | 446 | 618 | 421 | 276 | 408 | 401 | 370 | 330 | 740 | 705 |
| 14  | 319 | 506 | 455 | 563 | 430 | 272 | 455 | 452 | 370 | 326 | 937 | 797 |
| 15  | 336 | 525 | 406 | 573 | 431 | 286 | 396 | 452 | 388 | 326 | 938 | 797 |
| 16  | 348 | 540 | 545 | 608 | 421 | 359 | 384 | 451 | 372 | 326 | 939 | 797 |
| 17  | 355 | 568 | 447 | 602 | 433 | 224 | 364 | 534 | 369 | 326 | 938 | 797 |
| 18  | 354 | 480 | 364 | 604 | 463 | 220 | 339 | 534 | 368 | 261 | 844 | 797 |
| 19  | 344 | 446 | 352 | 677 | 463 | 232 | 338 | 379 | 368 | 262 | 842 | 963 |
| 20  | 331 | 406 | 285 | 630 | 483 | 402 | 339 | 379 | 415 | 261 | 842 | 962 |
| 21  | 372 | 403 | 267 | 538 | 430 | 297 | 369 | 299 | 411 | 262 | 842 | 963 |
| 22  | 359 | 468 | 253 | 539 | 504 | 342 | 376 | 298 | 412 | 280 | 843 | 963 |
| 23  | 363 | 470 | 257 | 628 | 457 | 296 | 375 | 298 | 387 | 278 | 608 | 964 |
| 24  | 392 | 470 | 223 | 590 | 367 | 307 | --- | 297 | 382 | 278 | 607 | 964 |
| 25  | 396 | 445 | 245 | 657 | 366 | 310 | 466 | 298 | 383 | 277 | 607 | 964 |
| 26  | 436 | 444 | 276 | 742 | 365 | 297 | 473 | 299 | 333 | 397 | 607 | 964 |
| 27  | 421 | 394 | 247 | 639 | 375 | 344 | 474 | 297 | 336 | 396 | 947 | 964 |
| 28  | 387 | 360 | 262 | 632 | 405 | 343 | 491 | 297 | 331 | 397 | 948 | 964 |
| 29  | 372 | 316 | 300 | 666 | --- | 341 | 477 | 296 | 284 | 451 | 948 | 821 |
| 30  | 379 | 302 | 360 | 758 | --- | 340 | 455 | 247 | 282 | 451 | 948 | 822 |
| 31  | 457 | --- | 356 | 683 | --- | 341 | --- | 247 | --- | 451 | 884 | --- |
| MAX | 958 | 568 |     | 758 | 566 | 402 | 527 | 541 | 415 | 451 | 948 | 964 |
| MIN | 304 | 302 | 223 | 331 | 365 | 220 | 303 | 247 | 227 | 261 | 450 | 565 |

## RED RIVER BASIN

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310801091430900 RED RIVER NEAR SIMMESPORT, LA--Continued

TEMPERATURE, WATER (DEG. C); WATER YIELD (CFS) FROM 1940 TO SEPTEMBER 1991  
GRADE-DAILY

| DAY | NOV  | NOV  | DEC | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG | SEP  |
|-----|------|------|-----|------|------|------|------|------|------|------|-----|------|
| 1   | 22.0 | 18.0 |     | 12.0 | 9.0  | 15.0 | 15.0 | 24.0 | 25.0 | 27.0 |     | ---  |
| 2   | 21.0 | 16.0 |     | 12.0 | 11.0 | 14.0 | 18.0 | 23.0 | 29.0 | 29.0 |     | ---  |
| 3   | 18.0 | 15.0 |     | 11.0 | 10.0 | 13.0 | 15.0 | 24.0 | 27.0 | 30.0 |     | ---  |
| 4   | 15.0 | 20.0 |     | 12.0 | 10.0 | 15.0 | 16.0 | 23.0 | 27.0 | 31.0 |     | ---  |
| 5   | 17.0 | 17.0 |     | 8.0  | 9.0  | 12.0 | 18.0 | 21.0 | 28.0 | 32.0 |     | ---  |
| 6   | 18.0 | 17.0 |     | 11.0 | 9.0  | 14.0 | 16.0 | 26.0 | 29.0 | 34.0 |     | ---  |
| 7   | 15.0 | 17.0 |     | 11.0 | 10.0 | 12.0 | 15.0 | 22.0 | 24.0 | 31.0 |     | ---  |
| 8   | 16.0 | 14.0 |     | 10.0 | 10.0 | 14.0 | 14.0 | 20.0 | 27.0 | 29.0 |     | ---  |
| 9   | 15.0 | 20.0 |     | 11.0 | 11.0 | 13.0 | 16.0 | 22.0 | 27.0 | 29.0 |     | ---  |
| 10  | 22.0 | 19.0 |     | 11.0 | 12.0 | 14.0 | 14.0 | 21.0 | 29.0 | 27.0 |     | ---  |
| 11  | 15.0 | 17.0 |     | 10.0 | 9.0  | 15.0 | 15.0 | 24.0 | 26.0 | 31.0 |     | 31.0 |
| 12  | 16.0 | 18.0 |     | 10.0 | 9.0  | 14.0 | 18.0 | 26.0 | 29.0 | 33.0 |     | 33.0 |
| 13  | 17.0 | 19.0 |     | 11.0 | 7.0  | 14.0 | 18.0 | 25.0 | 27.0 | 27.0 |     | 34.0 |
| 14  | 16.0 | 20.0 |     | 10.0 | 9.0  | 15.0 | 20.0 | 22.0 | 28.0 | 30.0 |     | 29.0 |
| 15  | 15.0 | 17.0 |     | 10.0 | 13.0 | 16.0 | 21.0 | 24.0 | 29.0 | 33.0 |     | 31.0 |
| 16  | 15.0 | 17.0 |     | 9.0  | 12.0 | 11.0 | 19.0 | 26.0 | 28.0 | 29.0 |     | 33.0 |
| 17  | 15.0 | 15.0 |     | 9.0  | 10.0 | 14.0 | 21.0 | 21.0 | 31.0 | 31.0 |     | 32.0 |
| 18  | 15.0 | 15.0 |     | 11.0 | 11.0 | 13.0 | 20.0 | 24.0 | 27.0 | 30.0 |     | 31.0 |
| 19  | 15.0 | 15.0 |     | 10.0 | 9.0  | 11.0 | 19.0 | 23.0 | 30.0 | 30.0 |     | 29.0 |
| 20  | 14.0 | 14.0 |     | 8.0  | 12.0 | 12.0 | 22.0 | 25.0 | 27.0 | 33.0 |     | 30.0 |
| 21  | 23.0 | 15.0 |     | 9.0  | 13.0 | 15.0 | 21.0 | 24.0 | 31.0 | 31.0 |     | 31.0 |
| 22  | 18.0 | 14.0 |     | 8.0  | 11.0 | 12.0 | 19.0 | 23.0 | 29.0 | 33.0 |     | 33.0 |
| 23  | 18.0 | 15.0 |     | 10.0 | 12.0 | 13.0 | 21.0 | 22.0 | 28.0 | 30.0 |     | 29.0 |
| 24  | 19.0 | 16.0 |     | 10.0 | 11.0 | 15.0 | ---  | 26.0 | 30.0 | 31.0 |     | 30.0 |
| 25  | 13.0 | 17.0 |     | 11.0 | 12.0 | 16.0 | 23.0 | 22.0 | 31.0 | 34.0 |     | 31.0 |
| 26  | 13.0 | 16.0 |     | 13.0 | 14.0 | 15.0 | 22.0 | 23.0 | 29.0 | 31.0 |     | 29.0 |
| 27  | 20.0 | 12.0 |     | 10.0 | 13.0 | 15.0 | 24.0 | 27.0 | 27.0 | 34.0 |     | 32.0 |
| 28  | 17.0 | 12.0 |     | 11.0 | 11.0 | 14.0 | 22.0 | 26.0 | 31.0 | ---  |     | 27.0 |
| 29  | 17.0 | 13.0 |     | 11.0 | ---  | 11.0 | 23.0 | 26.0 | 28.0 | 30.0 |     | 29.0 |
| 30  | 15.0 | 12.0 |     | 13.0 | ---  | 13.0 | 24.0 | 25.0 | 30.0 | 33.0 |     | 29.0 |
| 31  | 16.0 | ---  |     | 12.0 | ---  | 14.0 | ---  | 25.0 | ---  | 31.0 |     | ---  |
| MAX | 22.0 | 20.0 |     | 13.0 | 14.0 | 16.0 | 24.0 | 27.0 | 31.0 | 34.0 |     | 34.0 |
| MIN | 14.0 | 12.0 |     | 8.0  | 7.0  | 11.0 | 14.0 | 20.0 | 24.0 | 27.0 |     | 27.0 |

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO JULY 1981

| DATE<br>TIME        | DEC 5,80<br>1100 | MAR 13,81<br>1100 | MAY 8,81<br>1200 | JUN 4,81<br>1000 | JUL 2,81<br>1100 |
|---------------------|------------------|-------------------|------------------|------------------|------------------|
| TOTAL CELLS/ML      | 22000            | 3300              | 13000            | 8500             | 4800             |
| DIVERSITY: DIVISION | 1.5              | 1.6               | 1.3              | 1.3              | 1.6              |
| ...CLASS            | 1.5              | 1.6               | 1.3              | 1.3              | 1.6              |
| ...ORDER            | 1.7              | 2.0               | 1.6              | 2.1              | 1.9              |
| ...FAMILY           | 1.7              | 2.2               | 2.0              | 2.5              | 2.8              |
| ...GENUS            | 2.9              | 2.9               | 3.2              | 3.1              | 3.5              |

| ORGANISM                  | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT |
|---------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| CHLOROPHYTA (GREEN ALGAE) |              |              |              |              |              |              |              |              |              |              |
| ...CHLOROPHYCEAE          |              |              |              |              |              |              |              |              |              |              |
| ...CHLOROCOCCALES         |              |              |              |              |              |              |              |              |              |              |
| ...COELASTRACEAE          |              |              |              |              |              |              |              |              |              |              |
| ...COELASTRUM             | --           | -            | --           | -            | --           | -            | --           | -            | 700          | 14           |
| ...MICRACTINIACEAE        |              |              |              |              |              |              |              |              |              |              |
| ...MICRACTINIUM           | --           | -            | --           | -            | --           | -            | 100          | 1            | --           | -            |
| ...OOCYSTACEAE            |              |              |              |              |              |              |              |              |              |              |
| ...ANKISTRODESUS          | 800          | 4            | 100          | 3            | 190          | 1            | 60           | 1            | 88           | 2            |
| ...CHODATFLLA             | *            | 0            | --           | -            | 250          | 2            | --           | -            | --           | -            |
| ...DICTYOSPHAERIUM        | 510          | 2            | --           | -            | --           | -            | 120          | 1            | --           | -            |
| ...FRANCEIA               | *            | 0            | --           | -            | --           | -            | --           | -            | --           | -            |
| ...GLOEOACTINIUM          | --           | -            | --           | -            | 1100         | 9            | --           | -            | 53           | 1            |
| ...KIRCHNERIELLA          | 220          | 1            | 34           | 1            | *            | 0            | *            | 0            | 180          | 4            |
| ...OOCYSTIS               | 730          | 3            | 69           | 2            | 1200         | 9            | 280          | 3            | 560          | 12           |
| ...SELENASTRUM            | --           | -            | --           | -            | --           | -            | *            | 0            | --           | -            |
| ...SCENEDESMACEAE         |              |              |              |              |              |              |              |              |              |              |
| ...ACTINASTRUM            | --           | -            | --           | -            | --           | -            | 100          | 1            | 140          | 3            |
| ...CRUCIGENIA             | --           | -            | --           | -            | 250          | 2            | 240          | 3            | 140          | 3            |
| ...SCENEDESMUS            | --           | -            | --           | -            | 1400         | 11           | 450          | 5            | 210          | 4            |
| ...TETRASTRUM             | --           | -            | 69           | 2            | --           | -            | 60           | 1            | --           | -            |

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

\* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

## RED RIVER BASIN

310801091430900 RED RIVER NEAR SIMMESPORT, LA--Continued

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO JULY 1981

| DATE<br>TIME                  | DEC 5,80<br>1100          | MAR 13,81<br>1100         | MAY 8,81<br>1200          | JUN 4,81<br>1000          | JUL 2,81<br>1100          |
|-------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| ORGANISM                      | CELLS<br>/ML PER-<br>CENT | CELLS<br>/ML PER-<br>CENT | CELLS<br>/ML PER-<br>CENT | CELLS<br>/ML PER-<br>CENT | CELLS<br>/ML PER-<br>CENT |
| ..VOLVOCALES                  |                           |                           |                           |                           |                           |
| ...CHLAMYDOMONADACEAE         |                           |                           |                           |                           |                           |
| ....CARTERIA                  | --                        | --                        | 250 2                     | --                        | --                        |
| ...CHLAMYDOMONAS              | 220 1                     | 150 5                     | 250 2                     | 60 1                      | 140 3                     |
| ...ZYGNEMATALES               |                           |                           |                           |                           |                           |
| ...DESMIDIACEAE               |                           |                           |                           |                           |                           |
| ...FUASTRUM                   | --                        | --                        | * 0                       | --                        | --                        |
| ...STAUSTRUM                  | --                        | --                        | --                        | * 0                       | --                        |
| CHRYSTOPHYTA                  |                           |                           |                           |                           |                           |
| ..RACILLARIOPHYCEAE           |                           |                           |                           |                           |                           |
| ...CENTRALES                  |                           |                           |                           |                           |                           |
| ...COSCINODISCEAE             |                           |                           |                           |                           |                           |
| ....COSCINODISCUS             | --                        | --                        | 120 1                     | * 0                       | 35 1                      |
| ...CYCLOTELLA                 | 3300# 15                  | 430 13                    | 1500 12                   | 300 4                     | 740# 15                   |
| ...MELOSIRA                   | 6900# 32                  | 1200# 36                  | 4200# 33                  | 670 8                     | 530 11                    |
| ...SKELETONEMA                | --                        | 69 2                      | --                        | --                        | --                        |
| ...STEPHANODISCUS             | 150 1                     | 17 1                      | 810 6                     | * 0                       | --                        |
| ...PENNIALES                  |                           |                           |                           |                           |                           |
| ...DIATOMACEAE                |                           |                           |                           |                           |                           |
| ....DIATOMA                   | --                        | --                        | --                        | --                        | 70 1                      |
| ...FRAGILARIACEAE             |                           |                           |                           |                           |                           |
| ....ASTERIONELLA              | --                        | 17 1                      | --                        | --                        | --                        |
| ...SYNEDRA                    | 370 2                     | --                        | --                        | 60 1                      | * 0                       |
| ...NAVICULACEAE               |                           |                           |                           |                           |                           |
| ....DIPLOFIS                  | --                        | --                        | --                        | * 0                       | --                        |
| ...NAVICULA                   | --                        | 17 1                      | --                        | --                        | --                        |
| ...NITZSCHACEAE               |                           |                           |                           |                           |                           |
| ....NITZSCHIA                 | 220 1                     | 260 8                     | 120 1                     | 60 1                      | 120 3                     |
| CRYPTOPHYTA (CRYPTOMONADS)    |                           |                           |                           |                           |                           |
| ..CRYPTOPHYCEAE               |                           |                           |                           |                           |                           |
| ...CRYPTOMONADALES            |                           |                           |                           |                           |                           |
| ...CRYPTOMONADACEAE           |                           |                           |                           |                           |                           |
| ....CRYPTOMONAS               | --                        | 17 1                      | --                        | --                        | --                        |
| CYANOPHYTA (BLUE-GREEN ALGAE) |                           |                           |                           |                           |                           |
| ..CYANOPHYCEAE                |                           |                           |                           |                           |                           |
| ...CHROOCOCCALES              |                           |                           |                           |                           |                           |
| ...CHROOCOCCACEAE             |                           |                           |                           |                           |                           |
| ....AGMENELLUM                | 4700# 22                  | --                        | --                        | 510 6                     | --                        |
| ...ANACYSTIS                  | 2100 10                   | 670# 20                   | 870 7                     | 2900# 34                  | --                        |
| ...GOMPHOSPHERIA              | 1100 5                    | --                        | --                        | --                        | --                        |
| ...HORMOGONALES               |                           |                           |                           |                           |                           |
| ...NOSTOCACEAE                |                           |                           |                           |                           |                           |
| ....ANABAENOPSIS              | --                        | --                        | --                        | --                        | 180 4                     |
| ...APHANTZOMENON              | --                        | --                        | --                        | 310 4                     | --                        |
| ...OSCILLATORIACEAE           |                           |                           |                           |                           |                           |
| ....OSCILLATORIA              | --                        | --                        | --                        | 1900# 23                  | 880# 18                   |
| EUGLENOPHYTA (EUGLENOIDS)     |                           |                           |                           |                           |                           |
| ..EUGLENOPHYCEAE              |                           |                           |                           |                           |                           |
| ...EUGLENALES                 |                           |                           |                           |                           |                           |
| ...EUGLENACEAE                |                           |                           |                           |                           |                           |
| ....EUGLENA                   | * 0                       | 170 5                     | --                        | --                        | * 0                       |
| ...PHACUS                     | --                        | --                        | --                        | * 0                       | --                        |
| ...TRACHELOMONAS              | --                        | 17 1                      | --                        | 45 1                      | 53 1                      |
| PYRRHOPHYTA (FIRE ALGAE)      |                           |                           |                           |                           |                           |
| ..DINOPHYCEAE                 |                           |                           |                           |                           |                           |
| ...GYMNODINIALES              |                           |                           |                           |                           |                           |
| ...GYMNODINIACEAE             |                           |                           |                           |                           |                           |
| ....GYMNODINIUM               | * 0                       | --                        | * 0                       | --                        | --                        |
| ...PERIDINIALES               |                           |                           |                           |                           |                           |
| ...PERIDINIACEAE              |                           |                           |                           |                           |                           |
| ....PERIDINIUM                | --                        | --                        | * 0                       | * 0                       | --                        |

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

\* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%



LOWER MISSISSIPPI RIVER BASIN

03

MISSISSIPPI RIVER MAIN STEM

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA  
(National stream-quality accounting network station)

LOCATION.--Lat 30°45'30", long 91°23'45", in lot 31, T.3 S., R.11 E., Pointe Coupee-West Feliciana Parish line, Hydrologic Unit 08070100, at State Highway 10 Ferry Crossing, 2.0 mi (3.2 km) southwest of St. Francisville, and at mile 266.0 (428.0 km).

DRAINAGE AREA.--1,125,300 mi<sup>2</sup> (2,914,500 km<sup>2</sup>), contributing.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1954 to September 1972, October 1974 to current year.  
WATER TEMPERATURES: August 1954 to September 1972, October 1974 to current year.  
SULFATE: October 1974 to September 1978.  
CHLORIDE: October 1974 to current year.  
DISSOLVED SOLIDS: October 1978 to current year.

REMARKS.--See records of daily discharge for Mississippi River at Tarbert Landing, MS (station 07295100). Corps of Engineers station 01139.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 683 micromhos Oct. 16, 1955; minimum daily, 173 micromhos Apr. 15, 1955.  
WATER TEMPERATURES: Maximum daily, 31.0°C on several days during July, Aug. 1955, Aug. 1956, July 1962, July 1965, Aug. 1966, July 1972, July 14, 1978, July 17, 23, 1980, July 24, 1981; minimum daily, 1.0°C Jan. 29, 30, 1961.  
SULFATE: Maximum daily, 90 mg/L Oct. 14, 1957; minimum daily, 21 mg/L May 20, 1978.  
CHLORIDE: Maximum daily, 63 mg/L July 5, 1977; minimum daily, 9.0 mg/L Dec. 29, 1978.  
DISSOLVED SOLIDS: Maximum, 321 mg/L Jan. 21-31, 1981; minimum, 150 mg/L Dec. 21-31, 1978.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 526 micromhos Jan. 21, 23; minimum daily, 284 micromhos July 7.  
WATER TEMPERATURES: Maximum daily, 31.0°C July 24; minimum daily, 4.5°C Jan. 18-25.  
CHLORIDE: Maximum daily, 34 mg/L Feb. 18, 19; minimum daily, 11 mg/L July 1.  
DISSOLVED SOLIDS: Maximum, 321 mg/L Jan. 21-31; minimum, 172 mg/L June 11-20.

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

| DATE  | TIME | SPECIFIC CONDUCTANCE (UMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (NTU) | SETTLABLE MATTER (ML/L/HR) | OXYGEN DEMAND, DIS-SOLVED (MG/L) | OXYGEN DEMAND, BIO-CHEMICAL (HIGH 5 DAY) (MG/L) | COLIFORM, TOTAL, IMMEDIATE (COLS. PER 100 ML) |      |
|-------|------|------------------------------|------------|---------------------|-------------------------------|-----------------|----------------------------|----------------------------------|-------------------------------------------------|-----------------------------------------------|------|
| OCT   |      |                              |            |                     |                               |                 |                            |                                  |                                                 |                                               |      |
| 17... | 1300 | 425                          | 7.1        | 21.0                | 10                            | 2.5             | <1.0                       | 8.3                              | 30                                              | .1                                            | 730  |
| NOV   |      |                              |            |                     |                               |                 |                            |                                  |                                                 |                                               |      |
| 13... | 1200 | 474                          | 7.3        | 15.5                | 10                            | 55              | <1.0                       | 9.2                              | 26                                              | 2.0                                           | 1000 |
| DEC   |      |                              |            |                     |                               |                 |                            |                                  |                                                 |                                               |      |
| 01... | 1300 | 445                          | 7.3        | 9.5                 | 10                            | 36              | <1.0                       | 10.8                             | 20                                              | 1.4                                           | 380  |
| JAN   |      |                              |            |                     |                               |                 |                            |                                  |                                                 |                                               |      |
| 12... | 1230 | 512                          | 7.5        | 5.0                 | 5                             | 26              | <1.0                       | 12.2                             | 22                                              | 2.1                                           | --   |
| FEB   |      |                              |            |                     |                               |                 |                            |                                  |                                                 |                                               |      |
| 03... | 1200 | 495                          | 7.6        | 8.0                 | 5                             | 32              | <1.0                       | 12.2                             | 12                                              | 3.7                                           | K120 |
| MAR   |      |                              |            |                     |                               |                 |                            |                                  |                                                 |                                               |      |
| 13... | 1030 | 339                          | 7.4        | 8.5                 | 15                            | 180             | <1.0                       | 9.5                              | 32                                              | 2.7                                           | 1600 |
| APR   |      |                              |            |                     |                               |                 |                            |                                  |                                                 |                                               |      |
| 20... | 1130 | 388                          | 7.4        | 21.0                | 10                            | 110             | <1.0                       | 8.5                              | 50                                              | 2.4                                           | K140 |
| MAY   |      |                              |            |                     |                               |                 |                            |                                  |                                                 |                                               |      |
| 04... | 1330 | 380                          | 7.5        | 20.5                | 5                             | 68              | <1.0                       | 7.6                              | 48                                              | .8                                            | 2100 |
| JUN   |      |                              |            |                     |                               |                 |                            |                                  |                                                 |                                               |      |
| 01... | 1245 | 344                          | 7.1        | 20.5                | 10                            | 190             | <1.0                       | 6.4                              | 53                                              | .2                                            | 640  |
| JUL   |      |                              |            |                     |                               |                 |                            |                                  |                                                 |                                               |      |
| 08... | 1215 | 326                          | 7.2        | 27.0                | 15                            | 200             | <1.0                       | 6.5                              | 43                                              | 5.7                                           | K700 |
| AUG   |      |                              |            |                     |                               |                 |                            |                                  |                                                 |                                               |      |
| 06... | 1015 | 360                          | 7.1        | 28.5                | 10                            | 180             | <1.0                       | 6.3                              | 38                                              | 6.2                                           | K700 |
| SEP   |      |                              |            |                     |                               |                 |                            |                                  |                                                 |                                               |      |
| 03... | 1215 | 440                          | 7.4        | 28.5                | 5                             | 43              | <1.0                       | 6.6                              | 34                                              | 1.0                                           | 480  |

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

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

## LOWER MISSISSIPPI RIVER BASIN

## MISSISSIPPI RIVER MAIN STEM

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA--Continued

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

| DATE      | COLI-<br>FORM,<br>FFCAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCUCCI<br>FFCAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>AS<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINEITY<br>FIFLD<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) |
|-----------|----------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|
| OCT 17... | K35                                                            | K5                                                                 | 170                                                          | 38                                                           | 42                                           | 15                                                   | 21                                           | 3.4                                                 | 129                                                | 58                                            | 21                                                  |
| NOV 13... | K160                                                           | <10                                                                | 170                                                          | 40                                                           | 43                                           | 15                                                   | 26                                           | 3.9                                                 | 129                                                | 73                                            | 22                                                  |
| DEC 01... | K80                                                            | 120                                                                | 160                                                          | 45                                                           | 41                                           | 14                                                   | 26                                           | 3.1                                                 | 115                                                | 72                                            | 20                                                  |
| JAN 12... | K70                                                            | K25                                                                | 200                                                          | 60                                                           | 51                                           | 18                                                   | 23                                           | 3.4                                                 | 142                                                | 72                                            | 26                                                  |
| FEB 03... | K10                                                            | K80                                                                | 200                                                          | 51                                                           | 53                                           | 17                                                   | 25                                           | 3.1                                                 | 151                                                | 63                                            | 24                                                  |
| MAR 13... | --                                                             | K90                                                                | 120                                                          | 53                                                           | 33                                           | 10                                                   | 17                                           | 2.7                                                 | 71                                                 | 51                                            | 21                                                  |
| APR 20... | K20                                                            | 180                                                                | 140                                                          | 53                                                           | 40                                           | 9.7                                                  | 23                                           | 2.8                                                 | 87                                                 | 69                                            | 19                                                  |
| MAY 04... | K100                                                           | 1100                                                               | 150                                                          | 60                                                           | 42                                           | 12                                                   | 16                                           | 2.7                                                 | 94                                                 | 63                                            | 18                                                  |
| JUN 01... | --                                                             | K170                                                               | 130                                                          | 50                                                           | 35                                           | 11                                                   | 12                                           | 3.0                                                 | 83                                                 | 51                                            | 16                                                  |
| JUL 08... | K140                                                           | 3200                                                               | 130                                                          | 42                                                           | 36                                           | 10                                                   | 13                                           | 3.4                                                 | 89                                                 | 46                                            | 15                                                  |
| AUG 06... | K170                                                           | 540                                                                | 130                                                          | 29                                                           | 34                                           | 11                                                   | 20                                           | 3.8                                                 | 100                                                | 47                                            | 20                                                  |
| SEP 03... | K40                                                            | K60                                                                | 170                                                          | 41                                                           | 44                                           | 14                                                   | 20                                           | 3.7                                                 | 127                                                | 48                                            | 25                                                  |

| DATE      | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>RESIDUE<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) | NITRO-<br>GEN,<br>NITRATE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS N) |
|-----------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|
| OCT 17... | .3                                                 | 6.8                                               | 258                                                                | 246                                                            | 49                                                                  | 1.0                                                  | .00                                                  | 1.0                                                                    | 1.0                                                                    | --                                                                     | .04                                                                    |
| NOV 13... | .2                                                 | 4.2                                               | 269                                                                | 265                                                            | 72                                                                  | .85                                                  | .01                                                  | .86                                                                    | .77                                                                    | .05                                                                    | .03                                                                    |
| DEC 01... | .3                                                 | 5.1                                               | 263                                                                | 251                                                            | 32                                                                  | .91                                                  | .01                                                  | .92                                                                    | .93                                                                    | .13                                                                    | .03                                                                    |
| JAN 12... | .2                                                 | 7.2                                               | 304                                                                | 287                                                            | 63                                                                  | 1.6                                                  | .02                                                  | 1.6                                                                    | 1.5                                                                    | .22                                                                    | .21                                                                    |
| FEB 03... | .3                                                 | 6.1                                               | 286                                                                | 284                                                            | 71                                                                  | 1.1                                                  | .01                                                  | 1.1                                                                    | 1.1                                                                    | .06                                                                    | .05                                                                    |
| MAR 13... | .2                                                 | 5.5                                               | 200                                                                | 185                                                            | 262                                                                 | 1.9                                                  | .06                                                  | 2.0                                                                    | 2.0                                                                    | .13                                                                    | .16                                                                    |
| APR 20... | .2                                                 | 5.5                                               | 257                                                                | 222                                                            | 307                                                                 | 1.1                                                  | .02                                                  | 1.1                                                                    | 1.1                                                                    | .06                                                                    | .04                                                                    |
| MAY 04... | .1                                                 | 5.8                                               | 226                                                                | 218                                                            | 268                                                                 | 2.1                                                  | .02                                                  | 2.1                                                                    | 2.2                                                                    | .06                                                                    | .08                                                                    |
| JUN 01... | .2                                                 | 5.6                                               | 193                                                                | 186                                                            | 388                                                                 | 2.2                                                  | .01                                                  | 2.2                                                                    | 2.2                                                                    | .15                                                                    | .11                                                                    |
| JUL 08... | .2                                                 | 7.0                                               | 197                                                                | 186                                                            | 510                                                                 | 2.1                                                  | .02                                                  | 2.1                                                                    | 2.2                                                                    | .17                                                                    | .17                                                                    |
| AUG 06... | .2                                                 | 7.2                                               | 211                                                                | 205                                                            | 430                                                                 | 1.2                                                  | .00                                                  | 1.2                                                                    | 1.2                                                                    | .21                                                                    | .22                                                                    |
| SEP 03... | .2                                                 | 7.6                                               | 262                                                                | 240                                                            | 80                                                                  | 1.7                                                  | .01                                                  | 1.7                                                                    | 1.4                                                                    | .10                                                                    | .10                                                                    |

&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).

## MISSISSIPPI RIVER MAIN STEM

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA--Continued

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

| DATE  | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIIUM,<br>TOTAL<br>RECOV-<br>FRABLE<br>(UG/L<br>AS BA) | BARIIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>TOTAL<br>RECOV-<br>FRABLE<br>(UG/L<br>AS BE) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>TOTAL<br>RECOV-<br>FRABLE<br>(UG/L<br>AS CD) |
|-------|---------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------|----------------------------------------------|----------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|
| OCT   |                                                                     |                                                                     |                                                      |                                                      |                                     |                                              |                                                          |                                               |                                                                 |                                                      |                                                         |
| 17... | 1.0                                                                 | .42                                                                 | .31                                                  | .29                                                  | 2                                   | 2                                            | --                                                       | 60                                            | 0                                                               | <1                                                   | 0                                                       |
| NOV   |                                                                     |                                                                     |                                                      |                                                      |                                     |                                              |                                                          |                                               |                                                                 |                                                      |                                                         |
| 13... | 1.1                                                                 | .46                                                                 | .24                                                  | .09                                                  | 2                                   | 1                                            | --                                                       | --                                            | 0                                                               | <1                                                   | 2                                                       |
| DEC   |                                                                     |                                                                     |                                                      |                                                      |                                     |                                              |                                                          |                                               |                                                                 |                                                      |                                                         |
| 01... | 1.6                                                                 | .78                                                                 | .28                                                  | .08                                                  | 1                                   | --                                           | --                                                       | --                                            | 20                                                              | <1                                                   | 2                                                       |
| JAN   |                                                                     |                                                                     |                                                      |                                                      |                                     |                                              |                                                          |                                               |                                                                 |                                                      |                                                         |
| 12... | 1.2                                                                 | 1.2                                                                 | .21                                                  | .04                                                  | 2                                   | 1                                            | 100                                                      | 80                                            | 0                                                               | <1                                                   | 0                                                       |
| FEB   |                                                                     |                                                                     |                                                      |                                                      |                                     |                                              |                                                          |                                               |                                                                 |                                                      |                                                         |
| 03... | 1.4                                                                 | 1.0                                                                 | .28                                                  | .04                                                  | 22                                  | 1                                            | --                                                       | --                                            | 0                                                               | <1                                                   | 1                                                       |
| MAR   |                                                                     |                                                                     |                                                      |                                                      |                                     |                                              |                                                          |                                               |                                                                 |                                                      |                                                         |
| 13... | 1.8                                                                 | 1.1                                                                 | .14                                                  | .08                                                  | 2                                   | 1                                            | --                                                       | --                                            | 0                                                               | 0                                                    | 2                                                       |
| APR   |                                                                     |                                                                     |                                                      |                                                      |                                     |                                              |                                                          |                                               |                                                                 |                                                      |                                                         |
| 20... | 1.0                                                                 | .74                                                                 | --                                                   | .52                                                  | 2                                   | 1                                            | 200                                                      | 50                                            | 0                                                               | <1                                                   | 0                                                       |
| MAY   |                                                                     |                                                                     |                                                      |                                                      |                                     |                                              |                                                          |                                               |                                                                 |                                                      |                                                         |
| 04... | 1.4                                                                 | 1.1                                                                 | .31                                                  | .09                                                  | 3                                   | 1                                            | --                                                       | --                                            | 10                                                              | <1                                                   | 1                                                       |
| JUN   |                                                                     |                                                                     |                                                      |                                                      |                                     |                                              |                                                          |                                               |                                                                 |                                                      |                                                         |
| 01... | 2.0                                                                 | 1.3                                                                 | .60                                                  | .15                                                  | 6                                   | 1                                            | --                                                       | --                                            | 0                                                               | 0                                                    | 3                                                       |
| JUL   |                                                                     |                                                                     |                                                      |                                                      |                                     |                                              |                                                          |                                               |                                                                 |                                                      |                                                         |
| 08... | 1.7                                                                 | 1.0                                                                 | .42                                                  | .10                                                  | 6                                   | 2                                            | 200                                                      | 100                                           | 0                                                               | <1                                                   | 1                                                       |
| AUG   |                                                                     |                                                                     |                                                      |                                                      |                                     |                                              |                                                          |                                               |                                                                 |                                                      |                                                         |
| 06... | 1.6                                                                 | .95                                                                 | .43                                                  | .00                                                  | 4                                   | 1                                            | --                                                       | --                                            | 0                                                               | <1                                                   | 4                                                       |
| SEP   |                                                                     |                                                                     |                                                      |                                                      |                                     |                                              |                                                          |                                               |                                                                 |                                                      |                                                         |
| 03... | 1.5                                                                 | 1.4                                                                 | .29                                                  | .12                                                  | 3                                   | 2                                            | --                                                       | --                                            | 0                                                               | <1                                                   | 3                                                       |

| DATE  | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHROMIUM,<br>TOTAL<br>RECOV-<br>FRABLE<br>(UG/L<br>AS CR) | CHROMIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | CHROMIUM,<br>HEXA-<br>VALENT,<br>DIS-<br>(UG/L<br>AS CR) | CORALIT,<br>TOTAL<br>RECOV-<br>FRABLE<br>(UG/L<br>AS CO) | CORALIT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>TOTAL<br>RECOV-<br>FRABLE<br>(UG/L<br>AS CU) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>TOTAL<br>RECOV-<br>FRABLE<br>(UG/L<br>AS FF) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FF) | LEAD,<br>TOTAL<br>RECOV-<br>FRABLE<br>(UG/L<br>AS PB) |
|-------|----------------------------------------------|-----------------------------------------------------------|------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|-------------------------------------------------------|
| OCT   |                                              |                                                           |                                                |                                                          |                                                          |                                               |                                                         |                                              |                                                       |                                            |                                                       |
| 17... | <1                                           | 10                                                        | 10                                             | 0                                                        | 0                                                        | <3                                            | 17                                                      | 6                                            | 1400                                                  | 10                                         | 6                                                     |
| NOV   |                                              |                                                           |                                                |                                                          |                                                          |                                               |                                                         |                                              |                                                       |                                            |                                                       |
| 13... | <1                                           | 0                                                         | --                                             | 0                                                        | --                                                       | --                                            | 19                                                      | 8                                            | --                                                    | 10                                         | 7                                                     |
| DEC   |                                              |                                                           |                                                |                                                          |                                                          |                                               |                                                         |                                              |                                                       |                                            |                                                       |
| 01... | <1                                           | 0                                                         | --                                             | 0                                                        | --                                                       | --                                            | 36                                                      | 4                                            | --                                                    | 20                                         | 9                                                     |
| JAN   |                                              |                                                           |                                                |                                                          |                                                          |                                               |                                                         |                                              |                                                       |                                            |                                                       |
| 12... | <1                                           | 10                                                        | 0                                              | 0                                                        | 2                                                        | <3                                            | 15                                                      | 5                                            | 2300                                                  | 10                                         | 7                                                     |
| FEB   |                                              |                                                           |                                                |                                                          |                                                          |                                               |                                                         |                                              |                                                       |                                            |                                                       |
| 03... | <1                                           | 10                                                        | --                                             | 0                                                        | --                                                       | --                                            | 12                                                      | 3                                            | --                                                    | 10                                         | 9                                                     |
| MAR   |                                              |                                                           |                                                |                                                          |                                                          |                                               |                                                         |                                              |                                                       |                                            |                                                       |
| 13... | <1                                           | 20                                                        | --                                             | 0                                                        | --                                                       | --                                            | 24                                                      | 7                                            | --                                                    | 30                                         | 16                                                    |
| APR   |                                              |                                                           |                                                |                                                          |                                                          |                                               |                                                         |                                              |                                                       |                                            |                                                       |
| 20... | <1                                           | 10                                                        | 10                                             | 0                                                        | 0                                                        | <3                                            | 8                                                       | 3                                            | 2100                                                  | 290                                        | 0                                                     |
| MAY   |                                              |                                                           |                                                |                                                          |                                                          |                                               |                                                         |                                              |                                                       |                                            |                                                       |
| 04... | <1                                           | 10                                                        | --                                             | 0                                                        | --                                                       | --                                            | 22                                                      | 4                                            | --                                                    | 20                                         | 12                                                    |
| JUN   |                                              |                                                           |                                                |                                                          |                                                          |                                               |                                                         |                                              |                                                       |                                            |                                                       |
| 01... | 1                                            | 20                                                        | --                                             | 0                                                        | --                                                       | --                                            | 28                                                      | 7                                            | --                                                    | 40                                         | 26                                                    |
| JUL   |                                              |                                                           |                                                |                                                          |                                                          |                                               |                                                         |                                              |                                                       |                                            |                                                       |
| 08... | <1                                           | 20                                                        | 0                                              | 0                                                        | 6                                                        | <3                                            | 18                                                      | 4                                            | 12000                                                 | 20                                         | 10                                                    |
| AUG   |                                              |                                                           |                                                |                                                          |                                                          |                                               |                                                         |                                              |                                                       |                                            |                                                       |
| 06... | <1                                           | 10                                                        | --                                             | 0                                                        | --                                                       | --                                            | 30                                                      | 5                                            | --                                                    | 17                                         | 14                                                    |
| SEP   |                                              |                                                           |                                                |                                                          |                                                          |                                               |                                                         |                                              |                                                       |                                            |                                                       |
| 03... | <1                                           | 10                                                        | --                                             | 0                                                        | --                                                       | --                                            | 29                                                      | 13                                           | --                                                    | <10                                        | 190                                                   |

&lt; Actual value is known to be less than the value shown.

## LOWER MISSISSIPPI RIVER BASIN

## MISSISSIPPI RIVER MAIN STEM

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA--Continued

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

| DATE  | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS SE) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AG) |
|-------|--------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|
| OCT   |                                            |                                                                 |                                                      |                                                         |                                              |                                                         |                                              |                                                         |                                              |                                                         |
| 17... | 0                                          | 140                                                             | <1                                                   | .1                                                      | .2                                           | 6                                                       | 0                                            | 0                                                       | 0                                            | 0                                                       |
| NOV   |                                            |                                                                 |                                                      |                                                         |                                              |                                                         |                                              |                                                         |                                              |                                                         |
| 13... | 3                                          | --                                                              | --                                                   | .0                                                      | .0                                           | 11                                                      | 3                                            | 1                                                       | 0                                            | --                                                      |
| DEC   |                                            |                                                                 |                                                      |                                                         |                                              |                                                         |                                              |                                                         |                                              |                                                         |
| 01... | 2                                          | --                                                              | --                                                   | .1                                                      | .0                                           | 12                                                      | 1                                            | 2                                                       | 1                                            | --                                                      |
| JAN   |                                            |                                                                 |                                                      |                                                         |                                              |                                                         |                                              |                                                         |                                              |                                                         |
| 12... | 0                                          | 170                                                             | 40                                                   | .1                                                      | .0                                           | 7                                                       | 3                                            | 0                                                       | 0                                            | 0                                                       |
| FEB   |                                            |                                                                 |                                                      |                                                         |                                              |                                                         |                                              |                                                         |                                              |                                                         |
| 03... | 0                                          | --                                                              | --                                                   | .1                                                      | .0                                           | 0                                                       | 6                                            | 1                                                       | 0                                            | --                                                      |
| MAR   |                                            |                                                                 |                                                      |                                                         |                                              |                                                         |                                              |                                                         |                                              |                                                         |
| 13... | 0                                          | --                                                              | --                                                   | .1                                                      | .0                                           | 16                                                      | 5                                            | 0                                                       | 0                                            | --                                                      |
| APR   |                                            |                                                                 |                                                      |                                                         |                                              |                                                         |                                              |                                                         |                                              |                                                         |
| 20... | 0                                          | 120                                                             | 40                                                   | .1                                                      | .0                                           | 4                                                       | 2                                            | 0                                                       | 0                                            | 0                                                       |
| MAY   |                                            |                                                                 |                                                      |                                                         |                                              |                                                         |                                              |                                                         |                                              |                                                         |
| 04... | 1                                          | --                                                              | --                                                   | .2                                                      | .1                                           | 11                                                      | 2                                            | 0                                                       | 0                                            | --                                                      |
| JUN   |                                            |                                                                 |                                                      |                                                         |                                              |                                                         |                                              |                                                         |                                              |                                                         |
| 01... | 6                                          | --                                                              | --                                                   | .1                                                      | .2                                           | 17                                                      | 2                                            | 0                                                       | 0                                            | --                                                      |
| JUL   |                                            |                                                                 |                                                      |                                                         |                                              |                                                         |                                              |                                                         |                                              |                                                         |
| 08... | 1                                          | 490                                                             | 2                                                    | .1                                                      | .0                                           | 16                                                      | 2                                            | 0                                                       | 0                                            | 0                                                       |
| AUG   |                                            |                                                                 |                                                      |                                                         |                                              |                                                         |                                              |                                                         |                                              |                                                         |
| 06... | 1                                          | --                                                              | --                                                   | .1                                                      | .0                                           | 16                                                      | 3                                            | 1                                                       | 1                                            | --                                                      |
| SEP   |                                            |                                                                 |                                                      |                                                         |                                              |                                                         |                                              |                                                         |                                              |                                                         |
| 03... | 0                                          | --                                                              | --                                                   | .1                                                      | .0                                           | 8                                                       | 2                                            | 1                                                       | 0                                            | --                                                      |

| DATE  | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | VANAD-<br>IUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>SUS-<br>PENDED<br>TOTAL<br>(MG/L<br>AS C) | CYANIDE<br>TOTAL<br>(MG/L<br>AS CN) | PHENOLS<br>(UG/L) | OIL AND<br>GREASE,<br>TOTAL<br>RECOV-<br>METRIC<br>(MG/L) |
|-------|----------------------------------------------|----------------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------|-------------------|-----------------------------------------------------------|
| OCT   |                                              |                                                    |                                                       |                                            |                                               |                                                        |                                                                 |                                     |                   |                                                           |
| 17... | 0                                            | 3.0                                                | 70                                                    | 4                                          | --                                            | 11                                                     | 1.4                                                             | .00                                 | 0                 | 0                                                         |
| NOV   |                                              |                                                    |                                                       |                                            |                                               |                                                        |                                                                 |                                     |                   |                                                           |
| 13... | --                                           | 1.0                                                | 40                                                    | 10                                         | 8.4                                           | --                                                     | --                                                              | .00                                 | 37                | 0                                                         |
| DEC   |                                              |                                                    |                                                       |                                            |                                               |                                                        |                                                                 |                                     |                   |                                                           |
| 01... | --                                           | 6.0                                                | 30                                                    | 7                                          | 6.9                                           | --                                                     | --                                                              | .00                                 | 2                 | 0                                                         |
| JAN   |                                              |                                                    |                                                       |                                            |                                               |                                                        |                                                                 |                                     |                   |                                                           |
| 12... | 0                                            | 6.0                                                | 20                                                    | 10                                         | --                                            | 7.3                                                    | 1.3                                                             | .00                                 | 1                 | 0                                                         |
| FEB   |                                              |                                                    |                                                       |                                            |                                               |                                                        |                                                                 |                                     |                   |                                                           |
| 03... | --                                           | .0                                                 | 40                                                    | 20                                         | 9.1                                           | --                                                     | --                                                              | .00                                 | 7                 | 0                                                         |
| MAR   |                                              |                                                    |                                                       |                                            |                                               |                                                        |                                                                 |                                     |                   |                                                           |
| 13... | --                                           | .0                                                 | 100                                                   | 10                                         | 16                                            | --                                                     | --                                                              | .00                                 | 3                 | 0                                                         |
| APR   |                                              |                                                    |                                                       |                                            |                                               |                                                        |                                                                 |                                     |                   |                                                           |
| 20... | 0                                            | 1.0                                                | 40                                                    | 20                                         | --                                            | 4.4                                                    | 1.2                                                             | .00                                 | 0                 | 0                                                         |
| MAY   |                                              |                                                    |                                                       |                                            |                                               |                                                        |                                                                 |                                     |                   |                                                           |
| 04... | --                                           | 2.0                                                | 110                                                   | 30                                         | 10                                            | --                                                     | --                                                              | .00                                 | 0                 | 0                                                         |
| JUN   |                                              |                                                    |                                                       |                                            |                                               |                                                        |                                                                 |                                     |                   |                                                           |
| 01... | --                                           | 2.0                                                | 90                                                    | 10                                         | 16                                            | --                                                     | --                                                              | .00                                 | 2                 | 0                                                         |
| JUL   |                                              |                                                    |                                                       |                                            |                                               |                                                        |                                                                 |                                     |                   |                                                           |
| 08... | 0                                            | 4.0                                                | 80                                                    | 9                                          | --                                            | 5.5                                                    | 1.5                                                             | .00                                 | 0                 | 0                                                         |
| AUG   |                                              |                                                    |                                                       |                                            |                                               |                                                        |                                                                 |                                     |                   |                                                           |
| 06... | --                                           | .0                                                 | 50                                                    | 10                                         | 15                                            | --                                                     | --                                                              | .00                                 | 0                 | 0                                                         |
| SEP   |                                              |                                                    |                                                       |                                            |                                               |                                                        |                                                                 |                                     |                   |                                                           |
| 03... | --                                           | 2.0                                                | 70                                                    | 10                                         | 7.5                                           | --                                                     | --                                                              | >.01                                | 0                 | 0                                                         |

&lt; Actual value is known to be less than the value shown.

&gt; Actual value is known to be greater than the value shown.

LOWER MISSISSIPPI RIVER BASIN

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MISSISSIPPI RIVER MAIN STEM

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA--Continued

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

| DATE         | PCR,<br>TOTAL<br>(UG/L) | NAPH-<br>THA-<br>LFNES,<br>POLY-<br>CHLOR,<br>TOTAL<br>(UG/L) | ALDRIN,<br>TOTAL<br>(UG/L) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L) | DDD,<br>TOTAL<br>(UG/L) | DDE,<br>TOTAL<br>(UG/L) | DDT,<br>TOTAL<br>(UG/L) | DI-<br>AZINON,<br>TOTAL<br>(UG/L) | DI-<br>ELDRIN,<br>TOTAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) | ENDRIN,<br>TOTAL<br>(UG/L) |
|--------------|-------------------------|---------------------------------------------------------------|----------------------------|------------------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------------|----------------------------|
| OCT<br>17... | .0                      | .0                                                            | .000                       | .0                                 | .000                    | .000                    | .000                    | .01                               | .003                              | .000                                | .000                       |
| NOV<br>13... | .0                      | .0                                                            | .000                       | .0                                 | .000                    | .000                    | .000                    | .04                               | .002                              | .000                                | .000                       |
| 13...        | ND                      | --                                                            | ND                         | ND                                 | ND                      | ND                      | ND                      | ND                                | ND                                | --                                  | ND                         |
| DEC<br>01... | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .04                               | <.001                             | <.001                               | <.001                      |
| JAN<br>12... | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .02                               | .001                              | <.001                               | <.001                      |
| FEB<br>03... | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .02                               | <.001                             | <.001                               | <.001                      |
| MAR<br>13... | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .02                               | <.001                             | <.001                               | <.001                      |
| APR<br>20... | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .02                               | <.001                             | <.001                               | <.001                      |
| MAY<br>04... | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .01                               | .004                              | <.001                               | <.001                      |
| JUN<br>01... | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | <.01                              | .006                              | <.001                               | <.001                      |
| JUL<br>08... | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | .003                    | .01                               | .009                              | <.001                               | <.001                      |
| AUG<br>06... | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .09                               | .008                              | <.001                               | <.001                      |
| SEP<br>03... | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .03                               | .007                              | <.001                               | <.001                      |

| DATE         | ETHION,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR<br>FOXIDE<br>TOTAL<br>(UG/L) | LINDANE<br>TOTAL<br>(UG/L) | MALA-<br>THION,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L) | MIREX,<br>TOTAL<br>(UG/L) | PARA-<br>THION,<br>TOTAL<br>(UG/L) |
|--------------|----------------------------|-------------------------------------|----------------------------------------------|----------------------------|------------------------------------|--------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------|------------------------------------|
| OCT<br>17... | .00                        | .000                                | .000                                         | .000                       | .00                                | .00                                        | .00                                          | .00                                         | .00                       | .00                                |
| NOV<br>13... | .00                        | .000                                | .000                                         | .000                       | .00                                | .00                                        | .00                                          | .00                                         | .00                       | .00                                |
| 13...        | ND                         | ND                                  | ND                                           | ND                         | ND                                 | ND                                         | ND                                           | ND                                          | --                        | ND                                 |
| DEC<br>01... | <.01                       | <.001                               | <.001                                        | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        | <.01                      | <.01                               |
| JAN<br>12... | <.01                       | <.001                               | <.001                                        | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        | <.01                      | <.01                               |
| FEB<br>03... | <.01                       | <.001                               | <.001                                        | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        | <.01                      | <.01                               |
| MAR<br>13... | <.01                       | <.001                               | <.001                                        | <.001                      | .02                                | <.01                                       | <.01                                         | <.01                                        | <.01                      | <.01                               |
| APR<br>20... | <.01                       | <.001                               | <.001                                        | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        | <.01                      | <.01                               |
| MAY<br>04... | <.01                       | <.001                               | <.001                                        | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        | <.01                      | <.01                               |
| JUN<br>01... | <.01                       | <.001                               | <.001                                        | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        | <.01                      | <.01                               |
| JUL<br>08... | <.01                       | <.001                               | .003                                         | <.001                      | .01                                | <.01                                       | <.01                                         | <.01                                        | <.01                      | <.01                               |
| AUG<br>06... | <.01                       | <.001                               | <.001                                        | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        | <.01                      | <.01                               |
| SEP<br>03... | <.01                       | <.001                               | <.001                                        | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        | <.01                      | <.01                               |

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

ND Material specifically analyzed for but not detected.



## LOWER MISSISSIPPI RIVER BASIN

## MISSISSIPPI RIVER MAIN STEM

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA--Continued

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

| DATE  | PER-<br>THANE<br>TOTAL<br>(UG/L) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOTAL<br>TRI-<br>THION<br>(UG/L) | 2,4-D,<br>TOTAL<br>(UG/L) | 2, 4-DP<br>TOTAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) | PHYTO-<br>PLANK-<br>TON,<br>TOTAL<br>(CELLS<br>PER ML) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SED.<br>SUSP.<br>SIFVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|-------|----------------------------------|------------------------------------|----------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|--------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| OCT   |                                  |                                    |                                  |                           |                            |                            |                            |                                                        |                                            |                                                               |
| 17... | .00                              | .0                                 | .00                              | .00                       | .00                        | .00                        | .00                        | 13000                                                  | 154                                        | 88                                                            |
| NOV   |                                  |                                    |                                  |                           |                            |                            |                            |                                                        |                                            |                                                               |
| 13... | .00                              | .0                                 | .00                              | .03                       | .00                        | .00                        | .00                        | 12000                                                  | 210                                        | 91                                                            |
| 13... | --                               | ND                                 | ND                               | --                        | --                         | --                         | --                         | --                                                     | --                                         | --                                                            |
| DEC   |                                  |                                    |                                  |                           |                            |                            |                            |                                                        |                                            |                                                               |
| 01... | <.01                             | <.1                                | <.01                             | .02                       | .00                        | .01                        | .00                        | --                                                     | 209                                        | 85                                                            |
| JAN   |                                  |                                    |                                  |                           |                            |                            |                            |                                                        |                                            |                                                               |
| 12... | <.01                             | <.1                                | <.01                             | .07                       | .00                        | .01                        | .00                        | --                                                     | 139                                        | 93                                                            |
| FEB   |                                  |                                    |                                  |                           |                            |                            |                            |                                                        |                                            |                                                               |
| 03... | <.01                             | <.1                                | <.01                             | .04                       | <.01                       | <.01                       | <.01                       | --                                                     | 99                                         | 94                                                            |
| MAR   |                                  |                                    |                                  |                           |                            |                            |                            |                                                        |                                            |                                                               |
| 13... | <.01                             | <.1                                | <.01                             | .03                       | <.01                       | .01                        | <.01                       | 3600                                                   | 328                                        | 89                                                            |
| APR   |                                  |                                    |                                  |                           |                            |                            |                            |                                                        |                                            |                                                               |
| 20... | <.01                             | <.1                                | <.01                             | .03                       | <.01                       | .01                        | <.01                       | --                                                     | 111                                        | 92                                                            |
| MAY   |                                  |                                    |                                  |                           |                            |                            |                            |                                                        |                                            |                                                               |
| 04... | <.01                             | <.1                                | <.01                             | .01                       | <.01                       | <.01                       | <.01                       | 2000                                                   | 4100                                       | 84                                                            |
| JUN   |                                  |                                    |                                  |                           |                            |                            |                            |                                                        |                                            |                                                               |
| 01... | <.01                             | <.1                                | <.01                             | .04                       | <.01                       | .01                        | <.01                       | 3100                                                   | 5500                                       | 83                                                            |
| JUL   |                                  |                                    |                                  |                           |                            |                            |                            |                                                        |                                            |                                                               |
| 08... | <.01                             | <.1                                | <.01                             | <.01                      | <.01                       | .01                        | <.01                       | 1200                                                   | --                                         | --                                                            |
| AUG   |                                  |                                    |                                  |                           |                            |                            |                            |                                                        |                                            |                                                               |
| 06... | <.01                             | <.1                                | <.01                             | <.01                      | <.01                       | .01                        | <.01                       | --                                                     | 488                                        | 86                                                            |
| SEP   |                                  |                                    |                                  |                           |                            |                            |                            |                                                        |                                            |                                                               |
| 03... | <.01                             | <.1                                | <.01                             | <.01                      | <.01                       | .01                        | <.01                       | --                                                     | --                                         | --                                                            |

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 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   | 448 | 447 | 422 | 444 | 498 | 399 | 376 | 396 | 320 | 343 | 394 | 422 |
| 2   | 446 | 447 | 424 | 446 | 497 | 394 | 375 | 384 | 321 | 343 | 366 | --- |
| 3   | 441 | 468 | 423 | 452 | 493 | 395 | 375 | 381 | 325 | 325 | 366 | 456 |
| 4   | 421 | 470 | 435 | 463 | 494 | 377 | 370 | 379 | 327 | 324 | 368 | 457 |
| 5   | 421 | 469 | 432 | 475 | 469 | 379 | 369 | 375 | 323 | 317 | 369 | 457 |
| 6   | 422 | 463 | 453 | 506 | 470 | 377 | 362 | 375 | 323 | 312 | 361 | 457 |
| 7   | 422 | 466 | 457 | 508 | 469 | 391 | 352 | 376 | 307 | 284 | 349 | 449 |
| 8   | 417 | 475 | 444 | 507 | 456 | 403 | 351 | 364 | 327 | 325 | 351 | 449 |
| 9   | 418 | 463 | 445 | 510 | 448 | 401 | 369 | 365 | 322 | 332 | 352 | 449 |
| 10  | 424 | 461 | 458 | 509 | 456 | 400 | 369 | 368 | 328 | 335 | 332 | 470 |
| 11  | 436 | 458 | 458 | 508 | 459 | 384 | 360 | 373 | 313 | 334 | 331 | 462 |
| 12  | 439 | 474 | 477 | 522 | 458 | 384 | 361 | 379 | 312 | 334 | 332 | 467 |
| 13  | 434 | 477 | 474 | 523 | 409 | 343 | 355 | 391 | 312 | 378 | 331 | 468 |
| 14  | 433 | 470 | 494 | 517 | 409 | 343 | 349 | 398 | 306 | 380 | 336 | 464 |
| 15  | 435 | 470 | 499 | 509 | 409 | 336 | 345 | 407 | 303 | 381 | 328 | 463 |
| 16  | 435 | 483 | 488 | 510 | 412 | 337 | 360 | 406 | 306 | 377 | 362 | 440 |
| 17  | 431 | 483 | 489 | 510 | 411 | 344 | 397 | 406 | 302 | 368 | 363 | 441 |
| 18  | 432 | 480 | 470 | 511 | 426 | 347 | 397 | 406 | 302 | 366 | 363 | 441 |
| 19  | 431 | 469 | 469 | 518 | 425 | 356 | 397 | 408 | 300 | 361 | 434 | 440 |
| 20  | 430 | 478 | 471 | 515 | 431 | 356 | 392 | 419 | 307 | 351 | 434 | 443 |
| 21  | 420 | 484 | 474 | 526 | 431 | 356 | 395 | 411 | 309 | 349 | 433 | 456 |
| 22  | 423 | 466 | 486 | 524 | 388 | 370 | 399 | 426 | 309 | 353 | 420 | 457 |
| 23  | 424 | 466 | 474 | 526 | 388 | 370 | 403 | 437 | 310 | 353 | 422 | 455 |
| 24  | 432 | 460 | 444 | 523 | 388 | 370 | 411 | 416 | 317 | 353 | 422 | 456 |
| 25  | 431 | 461 | 445 | 522 | 388 | 370 | 417 | 402 | 316 | 371 | 422 | 465 |
| 26  | 446 | 439 | 445 | 521 | 393 | 376 | 421 | 401 | 315 | 370 | 422 | 465 |
| 27  | 463 | 439 | 443 | 521 | 395 | 385 | 417 | 413 | 317 | 375 | 421 | 481 |
| 28  | 461 | 433 | 426 | 518 | 396 | 393 | 417 | 402 | 333 | 391 | 425 | 480 |
| 29  | 443 | 432 | 422 | 514 | --- | 397 | 398 | 371 | 341 | 391 | 425 | 480 |
| 30  | 443 | 423 | 424 | 511 | --- | 394 | 397 | 335 | 342 | 391 | 426 | 482 |
| 31  | 446 | --- | 428 | 497 | --- | 395 | --- | 329 | --- | 395 | 426 | --- |
| MAX | 463 | 484 | 499 | 526 | 498 | 403 | 421 | 437 | 342 | 395 | 434 | 482 |
| MIN | 417 | 423 | 422 | 444 | 388 | 336 | 345 | 329 | 300 | 284 | 328 | 422 |

&lt; Actual value is known to be less than the value shown.

ND Material specifically analyzed for but not detected.

## MISSISSIPPI RIVER MAIN STEM

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA--Continued

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 | 16.0 | ---  | 6.0 | 7.5 | 8.0  | 13.5 | 20.0 | 21.0 | 28.0 | 29.5 | 27.5 |
| 2   | 24.0 | ---  | 10.0 | 6.0 | 8.0 | 8.5  | 14.0 | 19.5 | 22.0 | 28.0 | 29.0 | ---  |
| 3   | 23.0 | 16.0 | 10.0 | 6.0 | 8.0 | 9.0  | 15.0 | 20.0 | 21.0 | 28.0 | 28.5 | 27.0 |
| 4   | 23.0 | 16.0 | 10.0 | 6.5 | 8.0 | 9.0  | 16.5 | 20.0 | 21.0 | 28.0 | 28.5 | 27.0 |
| 5   | 22.0 | 16.0 | 10.0 | 6.5 | 8.0 | 9.5  | 16.5 | 20.0 | 23.0 | 28.0 | 28.5 | 27.0 |
| 6   | 21.0 | 16.0 | 10.0 | 6.5 | 7.0 | 9.5  | 17.0 | 20.0 | 23.0 | 27.0 | 28.0 | 27.0 |
| 7   | 21.0 | 16.0 | 10.5 | 6.5 | 6.5 | 9.5  | 17.0 | 20.0 | 23.0 | 28.0 | 28.0 | 27.0 |
| 8   | 21.0 | 16.0 | 10.5 | 6.5 | 6.5 | 9.5  | 17.0 | 20.0 | 24.0 | 27.0 | 28.0 | 27.0 |
| 9   | 21.0 | 16.0 | 10.5 | 7.0 | 6.5 | 9.5  | 17.0 | 20.0 | 25.0 | 27.0 | 28.0 | 27.0 |
| 10  | 21.0 | 16.0 | 10.5 | 6.5 | 5.5 | 9.0  | 17.0 | 20.0 | 24.5 | 27.5 | 28.0 | 26.5 |
| 11  | 21.0 | 16.0 | 10.5 | 7.0 | 5.5 | 9.5  | 17.5 | 20.0 | 24.5 | 28.0 | 28.0 | 27.0 |
| 12  | 21.0 | 16.0 | 10.0 | 6.0 | 5.5 | 9.5  | 18.0 | 20.0 | 25.0 | 28.0 | 28.5 | 27.0 |
| 13  | 21.0 | 16.0 | 10.0 | 6.0 | 5.5 | 9.5  | 18.0 | 20.0 | 25.0 | 28.5 | 28.5 | 27.0 |
| 14  | 21.0 | 16.0 | 10.0 | 6.0 | 5.5 | 9.5  | 18.5 | 20.0 | 26.0 | 29.0 | 29.0 | 26.5 |
| 15  | 21.5 | 16.0 | 10.0 | 6.0 | 5.5 | 10.0 | 18.5 | 20.0 | 26.0 | 29.0 | 29.0 | 26.5 |
| 16  | 20.5 | 16.0 | 10.0 | 5.0 | 5.0 | 10.5 | 19.0 | 20.0 | 26.0 | 29.5 | 29.5 | 26.5 |
| 17  | 21.0 | 15.0 | 10.0 | 5.0 | 5.0 | 10.5 | 19.0 | 20.0 | 26.5 | 29.5 | 29.5 | 26.5 |
| 18  | 20.5 | 14.0 | 10.0 | 4.5 | 5.5 | 11.0 | 19.0 | 20.0 | 27.0 | 30.0 | 29.5 | 25.0 |
| 19  | 20.0 | 14.0 | 9.5  | 4.5 | 6.5 | 11.0 | ---  | 24.0 | 28.0 | 30.0 | 29.0 | 26.5 |
| 20  | 19.5 | 13.0 | 9.0  | 4.5 | 6.5 | 11.0 | 20.0 | 19.0 | 27.0 | 30.0 | 28.5 | 25.0 |
| 21  | 20.0 | 13.0 | 8.0  | 4.5 | 6.5 | 10.5 | 20.5 | 20.0 | 27.5 | 30.0 | 28.0 | 24.0 |
| 22  | 20.0 | 13.0 | 8.0  | 4.5 | 6.5 | 10.5 | 20.0 | 22.0 | 27.5 | 30.0 | 28.0 | 24.0 |
| 23  | 20.0 | 13.0 | 7.5  | 4.5 | 7.0 | 11.0 | 19.5 | 20.0 | 27.5 | 30.5 | 28.0 | 24.0 |
| 24  | 19.5 | 13.0 | 7.5  | 4.5 | 7.0 | 11.5 | 19.5 | 20.0 | 27.0 | 31.0 | 28.0 | 24.0 |
| 25  | 19.0 | 12.5 | 7.0  | 4.5 | 7.5 | 11.5 | 19.5 | 19.0 | 27.0 | 30.5 | 28.0 | 24.0 |
| 26  | 19.0 | 11.5 | 7.0  | 5.0 | 8.0 | 11.5 | 19.5 | 19.0 | 28.0 | 30.5 | 27.0 | 24.0 |
| 27  | 19.0 | 10.5 | 7.0  | 5.5 | 8.0 | 11.5 | 19.5 | 22.0 | 28.0 | 30.5 | 27.0 | 24.0 |
| 28  | 19.0 | 10.5 | 6.5  | 6.0 | 8.0 | 12.5 | 19.5 | 23.0 | 27.0 | 30.5 | 27.0 | 24.0 |
| 29  | 18.0 | 10.5 | 6.0  | 7.0 | --- | 13.0 | 20.0 | 20.0 | 28.0 | 30.0 | 27.5 | 24.0 |
| 30  | 17.0 | 10.5 | 5.5  | 7.0 | --- | 13.5 | 20.0 | 25.0 | 28.0 | 30.0 | 27.5 | 24.0 |
| 31  | 16.0 | ---  | 5.5  | 7.0 | --- | 13.5 | ---  | 24.0 | ---  | 30.0 | 27.5 | ---  |
| MAX | 24.0 | 16.0 | 10.5 | 7.0 | 8.0 | 13.5 | 20.5 | 25.0 | 28.0 | 31.0 | 29.5 | 27.5 |
| MIN | 16.0 | 10.5 | 5.5  | 4.5 | 5.0 | 8.0  | 13.5 | 19.0 | 21.0 | 27.0 | 27.0 | 24.0 |

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   | 23  | 25  | --- | --- | 25  | 28  | 22  | 20  | 16  | 11  | 20  | 22  |
| 2   | 24  | 18  | 23  | 25  | 25  | 27  | 24  | 19  | 20  | 22  | 20  | --- |
| 3   | 25  | 28  | 20  | 26  | --- | 26  | 24  | 19  | 15  | 16  | 20  | 26  |
| 4   | 25  | 17  | 22  | 26  | 26  | 25  | 25  | 21  | 20  | 16  | 20  | 26  |
| 5   | 27  | 26  | 26  | 27  | 24  | 26  | 22  | 21  | 16  | 14  | 22  | 26  |
| 6   | 24  | 20  | 24  | 24  | 22  | 25  | 22  | 20  | 14  | 20  | 22  | 26  |
| 7   | 24  | 25  | 24  | 28  | 27  | 28  | 23  | 20  | 20  | --- | 24  | 24  |
| 8   | 22  | 20  | 24  | 26  | 24  | 28  | 23  | 18  | 19  | --- | 22  | 22  |
| 9   | 22  | 21  | 22  | 28  | 24  | 28  | 22  | 17  | 22  | 23  | 23  | 24  |
| 10  | 21  | 22  | 26  | 25  | 25  | 29  | 22  | 22  | 19  | 17  | 18  | 29  |
| 11  | 23  | 23  | 28  | 26  | 27  | 26  | 22  | 18  | 18  | 17  | 20  | 26  |
| 12  | 20  | 22  | 28  | 27  | 27  | 26  | 23  | 20  | 17  | 18  | 20  | 24  |
| 13  | 21  | 24  | 28  | 23  | 26  | 24  | 25  | 20  | 20  | 20  | 20  | 24  |
| 14  | 21  | 23  | 30  | 24  | 25  | 25  | 21  | 18  | 15  | 21  | 22  | 22  |
| 15  | 20  | 23  | 30  | 26  | 26  | 21  | 21  | 23  | 16  | 24  | 16  | 24  |
| 16  | 22  | 24  | 30  | 26  | 30  | 24  | 22  | 20  | 16  | 20  | 22  | 25  |
| 17  | 20  | 21  | 30  | 28  | 30  | 22  | 24  | 26  | 16  | 20  | 22  | 25  |
| 18  | 25  | 24  | 30  | 26  | 34  | 24  | 22  | 20  | 16  | 20  | 26  | 22  |
| 19  | 20  | 26  | 25  | 26  | 34  | 21  | 23  | 22  | 16  | 20  | 26  | 24  |
| 20  | 20  | 25  | 26  | 26  | 32  | 22  | 20  | 23  | 20  | 20  | 28  | 27  |
| 21  | 16  | 25  | 29  | 26  | 32  | 22  | 19  | 22  | 17  | 20  | 27  | 28  |
| 22  | 20  | 24  | 29  | 24  | 26  | 22  | 19  | 23  | 18  | 15  | 24  | 26  |
| 23  | 20  | 26  | 30  | 26  | 26  | 22  | 23  | 22  | 19  | 22  | 23  | 27  |
| 24  | 20  | 29  | 24  | 26  | 28  | 25  | 20  | 22  | 17  | 20  | 25  | 24  |
| 25  | 20  | 23  | 26  | 28  | 26  | 24  | 21  | 20  | 16  | 21  | 24  | 24  |
| 26  | 20  | 24  | 25  | 27  | 26  | 22  | 22  | 23  | 20  | 22  | 24  | 24  |
| 27  | 22  | 25  | 26  | 26  | 28  | 24  | 22  | 20  | 20  | 18  | 24  | 26  |
| 28  | 23  | 26  | 26  | 26  | 26  | 23  | 22  | 20  | 20  | 20  | 24  | 24  |
| 29  | 20  | 28  | 28  | 25  | --- | 26  | 19  | 15  | 17  | 21  | 24  | 25  |
| 30  | 19  | 22  | 26  | 26  | --- | 25  | 20  | 16  | 20  | 19  | 25  | 26  |
| 31  | 24  | --- | 25  | 25  | --- | 24  | --- | 16  | --- | 20  | 24  | --- |
| MAX | 27  | 29  | 30  | 28  | 34  | 29  | 25  | 26  | 22  | 24  | 28  | 29  |
| MIN | 16  | 17  | 20  | 23  | 22  | 21  | 19  | 15  | 14  | 11  | 16  | 22  |

## LOWER MISSISSIPPI RIVER BASIN

## MISSISSIPPI RIVER MAIN STEM

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA--Continued

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

| DATE  | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) |     | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) |  | DATE  | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) |     | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) |  |
|-------|--------------------------------------------------------------------|-----|-----------------------------------------------------|--|-------|--------------------------------------------------------------------|-----|-----------------------------------------------------|--|
|       |                                                                    |     |                                                     |  |       |                                                                    |     |                                                     |  |
| OCT   |                                                                    |     |                                                     |  | APR   |                                                                    |     |                                                     |  |
| 01-10 | 264                                                                | .36 |                                                     |  | 01-10 | 206                                                                | .28 |                                                     |  |
| 11-20 | 266                                                                | .36 |                                                     |  | 11-20 | 200                                                                | .27 |                                                     |  |
| 21-31 | 277                                                                | .38 |                                                     |  | 21-30 | 235                                                                | .32 |                                                     |  |
| NOV   |                                                                    |     |                                                     |  | MAY   |                                                                    |     |                                                     |  |
| 01-10 | 295                                                                | .40 |                                                     |  | 01-10 | 228                                                                | .31 |                                                     |  |
| 11-20 | 295                                                                | .40 |                                                     |  | 11-20 | 230                                                                | .31 |                                                     |  |
| 21-30 | 279                                                                | .38 |                                                     |  | 21-31 | 238                                                                | .32 |                                                     |  |
| DEC   |                                                                    |     |                                                     |  | JUN   |                                                                    |     |                                                     |  |
| 01-10 | 274                                                                | .37 |                                                     |  | 01-10 | 188                                                                | .26 |                                                     |  |
| 11-20 | 295                                                                | .40 |                                                     |  | 11-20 | 172                                                                | .23 |                                                     |  |
| 21-31 | 277                                                                | .38 |                                                     |  | 21-30 | 192                                                                | .26 |                                                     |  |
| JAN   |                                                                    |     |                                                     |  | JUL   |                                                                    |     |                                                     |  |
| 01-10 | 295                                                                | .40 |                                                     |  | 01-10 | 183                                                                | .25 |                                                     |  |
| 11-20 | 318                                                                | .43 |                                                     |  | 11-20 | 211                                                                | .29 |                                                     |  |
| 21-31 | 321                                                                | .44 |                                                     |  | 21-31 | 228                                                                | .31 |                                                     |  |
| FEB   |                                                                    |     |                                                     |  | AUG   |                                                                    |     |                                                     |  |
| 01-10 | 291                                                                | .40 |                                                     |  | 01-10 | 223                                                                | .30 |                                                     |  |
| 11-20 | 258                                                                | .35 |                                                     |  | 11-20 | 223                                                                | .30 |                                                     |  |
| 21-28 | 247                                                                | .34 |                                                     |  | 21-31 | 265                                                                | .36 |                                                     |  |
| MAR   |                                                                    |     |                                                     |  | SEP   |                                                                    |     |                                                     |  |
| 01-10 | 227                                                                | .31 |                                                     |  | 01-10 | 260                                                                | .35 |                                                     |  |
| 11-20 | 225                                                                | .31 |                                                     |  | 11-20 | 267                                                                | .36 |                                                     |  |
| 21-31 | 218                                                                | .30 |                                                     |  | 21-30 | 270                                                                | .37 |                                                     |  |

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO JULY 1981

| DATE<br>TIME        | OCT 17,80<br>1300 | NOV 13,80<br>1200 | MAR 13,81<br>1030 | MAY 4,81<br>1330 | JUN 1,81<br>1245 | JUL 8,81<br>1215 |
|---------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|
| TOTAL CELLS/ML      | 13000             | 12000             | 3600              | 2000             | 3100             | 1200             |
| DIVERSITY: DIVISION | 1.6               | 1.3               | 1.5               | 0.9              | 1.5              | 1.4              |
| ...CLASS            | 1.6               | 1.3               | 1.5               | 0.9              | 1.5              | 1.4              |
| ...ORDER            | 2.0               | 1.5               | 2.2               | 1.7              | 2.1              | 2.1              |
| ...FAMILY           | 2.2               | 1.6               | 2.6               | 2.1              | 2.6              | 2.6              |
| ...GENUS            | 2.7               | 2.6               | 3.4               | 3.0              | 3.4              | 3.2              |

| ORGANISM                  | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT |
|---------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| CHLOROPHYTA (GREEN ALGAE) |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHLOROPHYCEAE          |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHLOROCOCCALES         |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHARACIACEAE           |              |              |              |              |              |              |              |              |              |              |              |              |
| ...SCHROEDERIA            | --           | -            | --           | -            | --           | -            | --           | -            | * 0          | --           | -            | --           |
| ...MICRACTINIACEAE        |              |              |              |              |              |              |              |              |              |              |              |              |
| ...MICRACTINIUM           | --           | -            | --           | -            | 80           | 2            | 14           | 1            | --           | -            | --           | -            |
| ...OOCYSTACEAE            |              |              |              |              |              |              |              |              |              |              |              |              |
| ...ANKYSTRODESUS          | --           | -            | --           | -            | 48           | 1            | 28           | 1            | 62           | 2            | 14           | 1            |
| ...DICTYOSPHAERIUM        | 120          | 1            | --           | -            | 48           | 1            | --           | -            | * 0          | --           | -            | --           |
| ...KIRCHNERIELLA          | --           | -            | --           | -            | --           | -            | 14           | 1            | 31           | 1            | --           | -            |
| ...OOCYSTIS               | 480          | 4            | 250          | 2            | --           | -            | --           | -            | --           | -            | --           | -            |
| ...TETRAEDRON             | * 0          | --           | --           | -            | --           | -            | --           | -            | --           | -            | --           | -            |
| ...SCENEDESMACEAE         |              |              |              |              |              |              |              |              |              |              |              |              |
| ...ACTINASTRUM            | --           | -            | --           | -            | --           | -            | --           | -            | 310          | 10           | --           | -            |
| ...CRUCIGENIA             | --           | -            | 610          | 5            | --           | -            | --           | -            | --           | -            | --           | -            |
| ...SCENEDESMUS            | 1900         | 15           | 1600         | 13           | 210          | 6            | 200          | 10           | 310          | 10           | 110          | 9            |
| ...TETRASTRUM             | 650          | 5            | 610          | 5            | --           | -            | --           | -            | 62           | 2            | --           | -            |
| ...TETRASPORALES          |              |              |              |              |              |              |              |              |              |              |              |              |
| ...COCCOMYXACEAE          |              |              |              |              |              |              |              |              |              |              |              |              |
| ...ELAKATOTHRIX           | --           | -            | --           | -            | --           | -            | --           | -            | 62           | 2            | --           | -            |
| ...VOLVOCALES             |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHLAMYDOMONADACEAE     |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHLAMYDOMONAS          | * 0          | --           | 250          | 2            | 240          | 7            | 28           | 1            | * 0          | --           | 14           | 1            |
| ...ZYGNEMATALES           |              |              |              |              |              |              |              |              |              |              |              |              |
| ...DESMIDIACEAE           |              |              |              |              |              |              |              |              |              |              |              |              |
| ...COSMARIUM              | --           | -            | --           | -            | --           | -            | --           | -            | --           | -            | 14           | 1            |
| ...EUASTRUM               | * 0          | --           | --           | -            | --           | -            | --           | -            | --           | -            | --           | -            |

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

\* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

## MISSISSIPPI RIVER MAIN STEM

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA--Continued

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO JULY 1981

| DATE<br>TIME                  | OCT 17,80<br>1300 |              | NOV 13,80<br>1200 |              | MAR 13,81<br>1030 |              | MAY 4,81<br>1330 |              | JUN 1,81<br>1245 |              | JUL 8,81<br>1215 |              |
|-------------------------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|
| ORGANISM                      | CELLS<br>/ML      | PER-<br>CENT | CELLS<br>/ML      | PER-<br>CENT | CELLS<br>/ML      | PER-<br>CENT | CELLS<br>/ML     | PER-<br>CENT | CELLS<br>/ML     | PER-<br>CENT | CELLS<br>/ML     | PER-<br>CENT |
| CHRYSTOPHYTA                  |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ..BACILLARIOPHYCEAE           |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ..CENTRALES                   |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ...COSCINODISCACEAE           |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ....COSCINODISCUS             | --                | -            | --                | -            | *                 | 0            | --               | -            | 47               | 1            | --               | -            |
| ....CYCLOTELLA                | 1100              | 8            | 1100              | 9            | 410               | 12           | 480#             | 23           | 620#             | 20           | 280#             | 23           |
| ....MELOSTRA                  | 4300#             | 34           | 5300#             | 42           | 750#              | 21           | 550#             | 27           | 480#             | 15           | 240#             | 20           |
| ....STEPHANODISCUS            | --                | -            | 1000              | 8            | 370               | 10           | 70               | 3            | --               | -            | --               | -            |
| ..PENNALES                    |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ...ACHNANTHACEAE              |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ....ACHNANTHUS                | --                | -            | --                | -            | --                | -            | --               | -            | *                | 0            | 28               | 2            |
| ....COCCONEIS                 | --                | -            | --                | -            | --                | -            | --               | -            | *                | 0            | --               | -            |
| ....RHOICOSPHEA               | --                | -            | --                | -            | *                 | 0            | --               | -            | --               | -            | --               | -            |
| ....CYMRELLACEAE              |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ....CYMRELLA                  | --                | -            | --                | -            | --                | -            | --               | -            | *                | 0            | --               | -            |
| ....DIATOMACEAE               |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ....DIATOMA                   | --                | -            | --                | -            | 32                | 1            | 14               | 1            | --               | -            | --               | -            |
| ...FRAGILARIACEAE             |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ....ASTRIONELLA               | --                | -            | --                | -            | 80                | 2            | 98               | 5            | --               | -            | --               | -            |
| ....FRAGILARIA                | --                | -            | --                | -            | --                | -            | 290              | 14           | --               | -            | 110              | 9            |
| ....SYNEDRA                   | --                | -            | --                | -            | 32                | 1            | --               | -            | 47               | 1            | 28               | 2            |
| ...GOMPHONEMACEAE             |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ....GOMPHONEMA                | --                | -            | --                | -            | 32                | 1            | --               | -            | 62               | 2            | --               | -            |
| ...NAVICULACEAE               |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ....GYROSIGMA                 | --                | -            | --                | -            | --                | -            | --               | -            | *                | 0            | --               | -            |
| ....NAVICULA                  | --                | -            | 100               | 1            | 48                | 1            | 14               | 1            | 78               | 2            | 14               | 1            |
| ...NITZSCHACEAE               |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ....NANTZSCHIA                | --                | -            | --                | -            | --                | -            | 14               | 1            | --               | -            | 14               | 1            |
| ....NITZSCHIA                 | 81                | 1            | --                | -            | 130               | 4            | 130              | 6            | 78               | 2            | 70               | 6            |
| ...SURIPELLACEAE              |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ....SURIPELLA                 | --                | -            | --                | -            | 32                | 1            | --               | -            | 94               | 3            | 14               | 1            |
| CRYPTOPHYTA (CRYPTOMONADS)    |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ..CRYPTOPHYCEAE               |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ...CRYPTOMONADALES            |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ....CRYPTOMONADACEAE          |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| .....CRYPTOMONAS              | *                 | 0            | --                | -            | *                 | 0            | --               | -            | --               | -            | --               | -            |
| CYANOPHYTA (BLUE-GREEN ALGAE) |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ..CYANOPHYCEAE                |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ...CHROOCOCCALES              |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ....CHROOCOCCACEAE            |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| .....AGMENELLUM               | --                | -            | 1600              | 13           | --                | -            | --               | -            | --               | -            | --               | -            |
| ....ANACYSTIS                 | 2200#             | 17           | *                 | 0            | 64                | 2            | --               | -            | --               | -            | --               | -            |
| ...HORMOGONALES               |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ....OSCILLATORIACEAE          |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ....OSCILLATORIA              | 1800              | 14           | --                | -            | 910#              | 25           | --               | -            | 640#             | 20           | 220#             | 18           |
| ...RIVULARIACEAE              |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ....RAPHIDIOPSIS              | --                | -            | --                | -            | --                | -            | 70               | 3            | --               | -            | --               | -            |
| EUGLENOPHYTA (EUGLENOIDS)     |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ..EUGLENOPHYCEAE              |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ...EUGLENALES                 |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| ....EUGLENACEAE               |                   |              |                   |              |                   |              |                  |              |                  |              |                  |              |
| .....EUGLENA                  | --                | -            | --                | -            | *                 | 0            | --               | -            | --               | -            | 28               | 2            |
| ....TRACHELOMONAS             | --                | -            | --                | -            | *                 | 0            | 28               | 1            | *                | 0            | 14               | 1            |

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

\* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

## MISSISSIPPI RIVER DELTA

07373430 THOMPSON CREEK NEAR NORWOOD, LA

LOCATION.--Lat 30°58'12", long 91°11'31", in SW1/4, sec.70, T.1 S., R.1 W., East Feliciana-West Feliciana Parish line, Hydrologic Unit 08070201, at bridge on dirt road, 3.0 mi (4.8 km) upstream from Lost Creek, and 5.0 mi (8.0 km) west of Norwood.

DRAINAGE AREA.--41 mi<sup>2</sup> (106 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--January 1981 to July 1981.

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

| DATE      | TIME | SPECIFIC CONDUCTANCE (UMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-CORALT UNITS) | TURBIDITY (NTU) | OXYGEN, DIS-SOLVED (MG/L) | OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L) | COLIFORM, FECA, 0.7 UM-MF (COLS./100 ML) | STREPTOCOCCI, FECA, KF AGAR (COLS. PER 100 ML) | HARDNESS (MG/L AS CaCO3) |
|-----------|------|------------------------------|------------|---------------------|-------------------------------|-----------------|---------------------------|-------------------------------------------|------------------------------------------|------------------------------------------------|--------------------------|
| JAN 12... | 1300 | 63                           | 6.1        | 7.0                 | 5                             | 6.0             | 12.2                      | 1.4                                       | K20                                      | K75                                            | 16                       |
| MAR 11... | 0945 | 62                           | 6.0        | 14.5                | 15                            | 8.0             | 11.0                      | .7                                        | 420                                      | K55                                            | 13                       |
| MAY 06... | 1245 | 45                           | 6.2        | 21.0                | 60                            | 35              | --                        | 1.8                                       | 4000                                     | 6200                                           | 10                       |
| JUL 22... | 1100 | 77                           | 6.5        | 29.5                | 5                             | 2.0             | 7.8                       | .8                                        | K45                                      | 640                                            | 17                       |

| DATE      | HARDNESS, NONCARBONATE (MG/L AS CaCO3) | CALCIUM DIS-SOLVED (MG/L AS Ca) | MAGNESIUM, DIS-SOLVED (MG/L AS Mg) | SODIUM, DIS-SOLVED (MG/L AS Na) | POTASSIUM, DIS-SOLVED (MG/L AS K) | ALKALINITY FIELD AS CaCO3 | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLORIDE, DIS-SOLVED (MG/L AS Cl) | FLUORIDE, DIS-SOLVED (MG/L AS F) | SILICA, DIS-SOLVED (MG/L AS SiO2) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) |
|-----------|----------------------------------------|---------------------------------|------------------------------------|---------------------------------|-----------------------------------|---------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|-------------------------------------------------|
| JAN 12... | 3                                      | 3.4                             | 1.7                                | 6.5                             | 1.6                               | 13                        | 7.3                              | 8.0                               | .1                               | 20                                | 60                                              |
| MAR 11... | 2                                      | 3.0                             | 1.3                                | 6.4                             | 1.7                               | 11                        | 6.6                              | 7.0                               | .1                               | 19                                | 55                                              |
| MAY 06... | 0                                      | 3.1                             | .5                                 | 4.4                             | 3.0                               | 10                        | 3.8                              | 5.6                               | .1                               | 12                                | 36                                              |
| JUL 22... | 0                                      | 4.2                             | 1.7                                | 7.4                             | 2.2                               | 22                        | 2.6                              | 8.4                               | .1                               | 26                                | 70                                              |

| DATE      | SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC, DIS-SOLVED (UG/L AS AS) | ARSENIC, IN TOTAL MATERIAL (UG/G AS AS) | CADMIUM, DIS-SOLVED (UG/L AS Cd) | CADMIUM, FM BOT-TOM MATERIAL (UG/G AS Cd) | CHROMIUM, RECOV. FM BOT-TOM MATERIAL (UG/G) | CHROMIUM, HEXAVALENT, DIS. (UG/L AS Cr) |
|-----------|------------------------------------------------|-------------------------------------|-------------------------------------|-----------------------------------------------|-------------------------------|----------------------------------|-----------------------------------------|----------------------------------|-------------------------------------------|---------------------------------------------|-----------------------------------------|
| JAN 12... | 57                                             | .11                                 | --                                  | 1.6                                           | .10                           | 0                                | 4                                       | 3                                | 0                                         | 1                                           | 0                                       |
| MAR 11... | 52                                             | .08                                 | .04                                 | .38                                           | .04                           | --                               | --                                      | --                               | --                                        | --                                          | --                                      |
| MAY 06... | 38                                             | .19                                 | --                                  | 1.2                                           | .12                           | --                               | --                                      | --                               | --                                        | --                                          | --                                      |
| JUL 22... | 66                                             | .10                                 | --                                  | .42                                           | .05                           | --                               | --                                      | --                               | --                                        | --                                          | --                                      |

|              | COPPER,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | IRON,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | LEAD,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS PB) | MANGA-<br>NESE,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | ZINC,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS ZN) |   |
|--------------|----------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------|---|
| DATE         |                                                                      |                                            |                                                                    |                                            |                                                                    |                                                                              |                                                                     |                                                         |                                            |                                                                    |   |
| JAN<br>12... | 4                                                                    | 1                                          | 120                                                                | 190                                        | 0                                                                  | 0                                                                            | 70                                                                  | 50                                                      | .1                                         | 20                                                                 | 1 |

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

07373430 THOMPSON CREEK NEAR NORWOOD, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DATE         | CARRON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)                        | CYANIDE<br>TOTAL<br>(MG/L<br>AS CN)                                 | PHENOLS<br>(UG/L)                                                 | PCR,<br>TOTAL<br>(UG/L)                                                     | PCR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)            | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L)                 | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)                      | ALDRIN,<br>TOTAL<br>(UG/L)                                                     | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L)                                 | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|
| JAN<br>12... | 2.0                                                                  | .00                                                                 | 0                                                                 | <.1                                                                         | <1                                                                  | <.1                                                                           | <1                                                                            | <.01                                                                           | <.1                                                         | <.1                                                                | <1                                                                  |
| DATE         | DDD,<br>TOTAL<br>(UG/L)                                              | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)            | DDE,<br>TOTAL<br>(UG/L)                                           | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)                    | DDT,<br>TOTAL<br>(UG/L)                                             | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)                      | DI-<br>AZINON,<br>TOTAL<br>(UG/L)                                             | DI-<br>AZINON,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)             | DI-<br>ELDRIN,<br>TOTAL<br>(UG/L)                           | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L)                                 |
| JAN<br>12... | <.01                                                                 | <.1                                                                 | <.01                                                              | <.1                                                                         | <.01                                                                | <.1                                                                           | <.01                                                                          | .0                                                                             | <.01                                                        | <.1                                                                | <.01                                                                |
| DATE         | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)          | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)        | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)                 | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)          | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | LINDANE<br>TOTAL<br>(UG/L)                                  | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)        |                                                                     |
| JAN<br>12... | <.1                                                                  | <.01                                                                | <.1                                                               | <.01                                                                        | .0                                                                  | <.01                                                                          | <.1                                                                           | <.01                                                                           | <.1                                                         | <.01                                                               | <.1                                                                 |
| DATE         | MALA-<br>THION,<br>TOTAL<br>(UG/L)                                   | MALA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L)                        | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L)                        | METHYL<br>PARA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L)                                   | METHYL<br>TRI-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)   | MIREX,<br>TOTAL<br>(UG/L)                                   | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)         | PARA-<br>THION,<br>TOTAL<br>(UG/L)                                  |
| JAN<br>12... | <.01                                                                 | .0                                                                  | <.01                                                              | <.1                                                                         | <.01                                                                | .0                                                                            | <.01                                                                          | .0                                                                             | <.01                                                        | <.1                                                                | <.01                                                                |
| DATE         | PARA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)  | PER-<br>THANE<br>TOTAL<br>(UG/L)                                    | PER-<br>THANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L)                                          | TOXA-<br>PHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | TRI-<br>THION,<br>TOTAL<br>(UG/L)                                             | TRI-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)            | 2,4-D,<br>TOTAL<br>(UG/L)                                                      | 2,4-DP<br>TOTAL<br>(UG/L)                                   | 2,4,5-T<br>TOTAL<br>(UG/L)                                         | SILVEX,<br>TOTAL<br>(UG/L)                                          |
| JAN<br>12... | .0                                                                   | <.01                                                                | <.1                                                               | <.1                                                                         | <1                                                                  | <.01                                                                          | .0                                                                            | <.01                                                                           | <.01                                                        | <.01                                                               | .00                                                                 |

&lt; Actual value is known to be less than the value shown.



## LOWER MISSISSIPPI RIVER BASIN

07373965 SOUTH CANAL NEAR BAKER, LA

LOCATION.--Lat 30°37'00", long 91°08'56", in NW1/4NE1/4 lot 60, T. 5 S., R. 1 E., St. Helena meridian, East Baton Rouge Parish, Hydrologic unit 08070202, near center of span on downstream side of bridge on McHugh Road, 1.2 mi (1.9 km) downstream from White Bayou east diversion channel, 1.4 mi (2.3 km) upstream from Cypress Bayou, and 2.3 mi (3.7 km) northeast of Baker.

PERIOD OF RECORD.--August 1972 to current year. Daily gage-height record, from January 1965 to July 1972, published as Baker (south) Canal near Baker by Corps of Engineers, New Orleans district.

GAGE.--Water-stage recorder. Datum of gage is 60.00 ft (18.288 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good above 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) and poor below. Flow is uncontrolled diversion from White Bayou basin into the Mississippi River by way of Baker Canal since 1957. Records of water temperatures for water year 1981 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--9 years, 72.9 ft<sup>3</sup>/s (2.065 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,920 ft<sup>3</sup>/s (54.4 m<sup>3</sup>/s) Apr. 13, 1980, maximum gage height, 19.42 ft (5.919 m) Apr. 22, 1977; no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,550 ft<sup>3</sup>/s (43.9 m<sup>3</sup>/s) July 3, gage height, 16.02 ft (4.883 m); minimum daily, 0.13 ft<sup>3</sup>/s (0.004 m<sup>3</sup>/s).

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY         | OCT    | NOV      | DEC     | JAN   | FEB     | MAR    | APR   | MAY     | JUN    | JUL     | AUG    | SEP    |
|-------------|--------|----------|---------|-------|---------|--------|-------|---------|--------|---------|--------|--------|
| 1           | 5.3    | .24      | 6.0     | .30   | 7.5     | 1.6    | 11    | .69     | 2.2    | 3.5     | .37    | 70     |
| 2           | 9.3    | .30      | 3.7     | .30   | 24      | 1.4    | 4.5   | .69     | 63     | 634     | .24    | 9.8    |
| 3           | 5.2    | .30      | 3.0     | .69   | 19      | 1.2    | 2.0   | .60     | 18     | 1260    | .24    | 5.8    |
| 4           | 3.3    | .44      | 1.8     | .60   | 10      | 40     | 1.4   | .69     | 8.2    | 263     | .13    | 4.1    |
| 5           | 2.5    | .37      | 1.5     | .37   | 37      | 200    | .78   | 795     | 7.4    | 32      | 3.7    | 4.1    |
| 6           | 1.2    | .30      | 1.3     | .69   | 700     | 45     | .52   | 875     | 24     | 233     | 9.0    | 3.7    |
| 7           | .52    | .30      | .96     | 10    | 300     | 16     | .40   | 141     | 15     | 60      | 3.2    | 2.5    |
| 8           | .52    | .37      | .90     | 4.5   | 50      | 9.3    | .42   | 21      | 9.0    | 21      | 2.5    | 2.1    |
| 9           | .52    | .37      | 190     | 4.3   | 25      | 4.7    | .43   | 15      | 5.8    | 16      | 3.3    | 1.7    |
| 10          | .60    | .37      | 700     | 2.2   | 180     | 4.4    | .45   | 230     | 5.8    | 11      | .78    | 1.4    |
| 11          | .60    | .60      | 200     | .78   | 170     | 3.7    | .41   | 61      | 20     | 44      | .30    | 1.2    |
| 12          | .44    | .69      | 30      | .37   | 45      | 1.7    | .38   | 18      | 56     | 45      | 1.9    | 1.2    |
| 13          | .37    | .78      | 16      | .30   | 20      | 1.4    | .35   | 11      | 15     | 9.3     | 1.7    | 1.3    |
| 14          | .52    | 1.3      | 11      | .37   | 12      | .98    | .42   | 8.2     | 7.0    | 5.2     | 21     | 9.2    |
| 15          | .52    | 11       | 7.3     | .30   | 30      | .78    | .51   | 6.8     | 5.4    | 3.2     | 6.7    | 251    |
| 16          | .52    | 3.3      | 4.5     | .30   | 60      | .69    | .60   | 5.8     | 3.7    | 2.5     | 3.2    | 510    |
| 17          | .69    | 5.6      | 2.5     | .24   | 50      | .69    | .88   | 5.4     | 2.4    | 2.0     | 1.8    | 33     |
| 18          | 94     | 4.1      | 1.6     | .24   | 35      | .44    | .78   | 4.5     | 1.6    | 1.7     | 1.2    | 6.5    |
| 19          | 138    | 1.8      | .98     | .24   | 20      | .30    | .78   | 4.3     | 1.1    | 1.4     | 1.6    | 3.0    |
| 20          | 10     | 1.1      | .69     | 1.3   | 11      | .37    | .69   | 4.5     | 1.2    | 1.3     | .30    | 1.8    |
| 21          | 6.1    | .69      | .52     | 6.5   | .70     | .92    | .69   | 4.5     | .78    | 1.2     | .13    | 1.4    |
| 22          | 3.2    | 4.6      | .44     | 3.0   | 18      | 51     | .69   | 4.1     | .44    | 1.1     | .13    | 1.1    |
| 23          | 3.3    | 230      | .37     | 1.1   | 25      | 27     | .88   | 4.3     | 2.3    | 1.1     | .30    | .78    |
| 24          | .78    | 100      | .37     | .60   | 14      | 11     | 2.0   | 5.2     | 8.6    | .60     | .30    | .69    |
| 25          | .60    | 19       | .37     | .44   | 7.0     | 5.0    | .69   | 45      | 7.0    | .69     | .30    | .60    |
| 26          | .60    | 440      | .37     | .60   | 4.0     | 2.0    | .60   | 31      | 164    | .69     | .30    | .52    |
| 27          | 1.0    | 470      | .30     | 1.2   | 2.8     | .88    | .52   | 9.0     | 33     | .52     | .44    | .52    |
| 28          | 12     | 54       | .30     | 1.2   | 2.0     | .37    | .69   | 9.0     | 11     | 2.7     | 1.5    | .52    |
| 29          | 2.4    | 19       | .30     | 1.2   | ---     | .52    | .60   | 5.4     | 7.5    | 3.3     | 2.0    | .78    |
| 30          | .98    | 10       | .30     | 1.2   | ---     | 10     | .60   | 3.5     | 5.0    | 2.4     | 41     | .98    |
| 31          | .37    | ---      | .30     | .98   | ---     | 19     | ---   | 2.7     | ---    | 1.7     | 330    | ---    |
| TOTAL       | 306.95 | 1380.92  | 1187.67 | 46.41 | 1879.00 | 462.34 | 35.66 | 2332.87 | 511.42 | 2665.10 | 439.56 | 931.29 |
| MEAN        | 9.90   | 46.0     | 38.3    | 1.50  | 67.1    | 14.9   | 1.19  | 75.3    | 17.0   | 86.0    | 14.2   | 31.0   |
| MAX         | 138    | 470      | 700     | 10    | 700     | 200    | 11    | 875     | 164    | 1260    | 330    | 510    |
| MIN         | .37    | .24      | .30     | .24   | .70     | .30    | .35   | .60     | .44    | .52     | .13    | .52    |
| CAL YR 1980 | TOTAL  | 36557.99 | MEAN    | 99.9  | MAX     | 1820   | MIN   | .24     |        |         |        |        |
| WTR YR 1981 | TOTAL  | 12179.19 | MEAN    | 33.4  | MAX     | 1260   | MIN   | .13     |        |         |        |        |

07373965 SOUTH CANAL NEAR BAKER, LA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY   | JUN  | JUL   | AUG  | SEP  |
|------|------|------|------|------|------|------|------|-------|------|-------|------|------|
| 1    | 3.22 | 2.92 | ---  | 3.07 | 3.41 | ---  | 3.58 | 3.12  | 3.24 | 3.32  | 3.04 | 4.80 |
| 2    | 3.34 | 2.93 | ---  | 3.07 | 4.02 | ---  | 3.38 | 3.12  | 4.59 | 6.34  | 3.02 | 3.76 |
| 3    | 3.17 | 2.93 | ---  | 3.12 | 3.88 | ---  | 3.23 | 3.11  | 3.87 | 14.47 | 3.02 | 3.60 |
| 4    | 3.08 | 2.95 | ---  | 3.11 | 3.58 | ---  | 3.19 | 3.12  | 3.53 | 6.63  | 3.00 | 3.52 |
| 5    | 3.03 | 2.94 | ---  | 3.08 | 3.92 | ---  | 3.13 | 10.88 | 3.49 | 4.35  | 3.21 | 3.52 |
| 6    | 2.93 | 2.93 | ---  | 3.12 | ---  | ---  | 3.10 | 11.71 | 4.04 | 6.56  | 3.52 | 3.50 |
| 7    | 2.86 | 2.93 | ---  | 3.61 | ---  | ---  | ---  | 5.47  | 3.78 | 4.81  | 3.27 | 3.43 |
| 8    | 2.86 | 2.94 | ---  | 3.35 | ---  | ---  | ---  | 3.97  | 3.56 | 4.07  | 3.23 | 3.40 |
| 9    | 2.86 | 2.94 | ---  | 3.34 | ---  | ---  | ---  | 3.78  | 3.43 | 3.91  | 3.28 | 3.37 |
| 10   | 2.87 | 2.94 | ---  | 3.22 | ---  | ---  | ---  | 6.40  | 3.43 | 3.76  | 3.09 | 3.35 |
| 11   | 2.87 | 2.97 | ---  | 3.10 | ---  | ---  | ---  | 4.69  | 3.82 | 4.31  | 3.03 | 3.33 |
| 12   | 2.85 | 2.98 | ---  | 3.05 | ---  | 3.28 | ---  | 3.87  | 4.71 | 4.50  | 3.13 | 3.33 |
| 13   | 2.84 | 2.99 | 3.80 | 3.04 | ---  | 3.26 | ---  | 3.64  | 3.76 | 3.69  | 3.17 | 3.34 |
| 14   | 2.86 | 3.02 | 3.64 | 3.05 | ---  | 3.22 | ---  | 3.53  | 3.48 | 3.52  | 3.79 | 3.65 |
| 15   | 2.86 | 3.50 | 3.50 | 3.04 | ---  | 3.20 | ---  | 3.47  | 3.41 | 3.42  | 3.44 | 6.29 |
| 16   | 2.86 | 3.18 | 3.38 | 3.04 | ---  | 3.19 | 3.11 | 3.43  | 3.33 | 3.38  | 3.27 | 8.89 |
| 17   | 2.81 | 3.27 | 3.27 | 3.03 | ---  | 3.19 | 3.14 | 3.41  | 3.25 | 3.34  | 3.18 | 4.54 |
| 18   | 4.18 | 3.22 | 3.20 | 3.03 | ---  | 3.16 | 3.13 | 3.37  | 3.19 | 3.32  | 3.13 | 3.82 |
| 19   | 5.34 | 3.08 | 3.15 | 3.03 | ---  | 3.14 | 3.13 | 3.36  | 3.15 | 3.30  | 3.16 | 3.65 |
| 20   | 3.48 | 3.02 | 3.12 | 3.15 | ---  | 3.15 | 3.12 | 3.37  | 3.16 | 3.29  | 3.03 | 3.57 |
| 21   | 3.31 | 2.98 | 3.10 | 3.44 | ---  | 3.17 | 3.12 | 3.37  | 3.12 | 3.28  | 3.00 | 3.54 |
| 22   | 3.17 | 3.12 | 3.09 | 3.27 | ---  | 4.72 | 3.12 | 3.35  | 3.08 | 3.27  | 3.00 | 3.51 |
| 23   | 3.18 | ---  | 3.08 | 3.13 | ---  | 4.20 | 3.14 | 3.36  | 3.18 | 3.27  | 3.03 | 3.48 |
| 24   | 2.99 | ---  | 3.08 | 3.08 | ---  | 3.72 | 3.23 | 3.40  | 3.54 | 3.22  | 3.03 | 3.47 |
| 25   | 2.97 | ---  | 3.08 | 3.06 | ---  | 3.47 | 3.12 | 4.17  | 3.48 | 3.23  | 3.17 | 3.46 |
| 26   | 2.97 | ---  | 3.08 | 3.08 | ---  | 3.30 | 3.11 | 4.17  | 5.87 | 3.23  | 3.26 | 3.45 |
| 27   | 2.97 | ---  | 3.07 | 3.14 | ---  | 3.21 | 3.10 | 3.56  | 4.20 | 3.23  | 3.28 | 3.45 |
| 28   | 3.52 | ---  | 3.07 | 3.14 | ---  | 3.15 | 3.12 | 3.56  | 3.62 | 3.24  | 3.36 | 3.45 |
| 29   | 3.12 | ---  | 3.07 | 3.14 | ---  | 3.17 | 3.11 | 3.41  | 3.50 | 3.28  | 3.42 | 3.48 |
| 30   | 3.01 | ---  | 3.07 | 3.14 | ---  | 3.68 | 3.11 | 3.32  | 3.39 | 3.22  | 4.31 | 3.50 |
| 31   | 2.94 | ---  | 3.07 | 3.12 | ---  | 3.98 | ---  | 3.27  | ---  | 3.17  | 7.39 | ---  |
| MEAN | 3.14 | ---  | ---  | 3.14 | ---  | ---  | ---  | 4.19  | 3.64 | 4.19  | 3.36 | 3.85 |
| MAX  | 5.34 | ---  | ---  | 3.61 | ---  | 4.72 | 3.58 | 11.71 | 5.87 | 14.47 | 7.39 | 8.89 |
| MIN  | 2.81 | 2.92 | 3.07 | 3.03 | ---  | ---  | ---  | 3.11  | 3.08 | 3.17  | 3.00 | 3.33 |

## LOWER MISSISSIPPI RIVER BASIN

## MISSISSIPPI RIVER MAIN STEM

07374120 MISSISSIPPI RIVER AT PLAQUEMINE, LA (CE 01170)

LOCATION.--Lat 30°17'00", long 91°13'21", T.9 S., R.12 E., Louisiana meridian, Iberville Parish, Hydrologic Unit 08070100, at west bank ferry landing at Plaquemine, and at mile 208.0 (334.7 km).

DRAINAGE AREA.--Not determined.

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

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

| DATE      | TIME | SPECIFIC CONDUCTANCE (UMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (NTU) | SETTLABLE MATTER (ML/L/HR) | OXYGEN, DIS-SOLVED (MG/L) | OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) | OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L) | COLIFORM, TOTAL, IMMEDIATE (COLS. PER 100 ML) |
|-----------|------|------------------------------|------------|---------------------|-------------------------------|-----------------|----------------------------|---------------------------|---------------------------------------------|-------------------------------------------|-----------------------------------------------|
| OCT 17... | 1000 | 404                          | 7.3        | 21.0                | 5                             | 2.0             | <1.0                       | 8.3                       | 30                                          | 1.9                                       | 15000                                         |
| NOV 05... | 0900 | 463                          | 6.9        | 16.0                | 10                            | 50              | <1.0                       | 9.0                       | 14                                          | --                                        | 6300                                          |
| DEC 02... | 1320 | 454                          | 7.2        | 10.0                | 10                            | 40              | <1.0                       | 10.7                      | 28                                          | 2.5                                       | 16000                                         |
| JAN 13... | 1030 | 488                          | 7.6        | 5.0                 | 5                             | 20              | <1.0                       | 12.2                      | 22                                          | 3.8                                       | 5900                                          |
| FEB 06... | 1115 | 511                          | 7.6        | 7.5                 | 5                             | 30              | <1.0                       | 11.5                      | 11                                          | 4.8                                       | 14000                                         |
| MAR 12... | 1230 | 378                          | 7.4        | 9.0                 | 15                            | 75              | <1.0                       | 9.2                       | 30                                          | 3.0                                       | 3200                                          |
| APR 15... | 0930 | 420                          | 7.3        | 21.0                | 10                            | 20              | <1.0                       | 8.2                       | 54                                          | 3.0                                       | K5300                                         |
| MAY 15... | 1200 | 387                          | 7.2        | 20.5                | 5                             | 150             | <1.0                       | 7.4                       | 42                                          | 1.4                                       | 7600                                          |
| JUN 02... | 1015 | 345                          | 7.1        | 21.0                | 5                             | 90              | <1.0                       | 6.3                       | 33                                          | 1.7                                       | 2600                                          |
| JUL 09... | 1240 | 343                          | 6.7        | 27.5                | 20                            | 150             | <1.0                       | 6.1                       | 53                                          | .2                                        | 5300                                          |
| AUG 05... | 1145 | 370                          | 7.2        | 29.0                | 5                             | 150             | <1.0                       | 6.2                       | 72                                          | 2.3                                       | 6800                                          |
| SEP 02... | 1130 | 427                          | 7.4        | 29.0                | 10                            | 55              | <1.0                       | 6.9                       | 52                                          | .3                                        | 10000                                         |

| DATE      | COLIFORM, FFCAL, 0.7 UM-MF (COLS./100 ML) | HARDNESS, (MG/L AS CaCO3) | HARDNESS, NONCARBONATE (MG/L AS CaCO3) | CALCIUM DIS-SOLVED (MG/L AS Ca) | MAGNESIUM, DIS-SOLVED (MG/L AS Mg) | ALKALINITY, FIELD (MG/L AS CaCO3) | SULFATE, DIS-SOLVED (MG/L AS SO4) | CHLORIDE, DIS-SOLVED (MG/L AS CL) | SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) | NITROGEN, NITRATE TOTAL (MG/L AS N) | NITROGEN, NITRITE TOTAL (MG/L AS N) |
|-----------|-------------------------------------------|---------------------------|----------------------------------------|---------------------------------|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------|-------------------------------------|
| OCT 17... | K2400                                     | 160                       | 29                                     | 41                              | 14                                 | 131                               | 60                                | 24                                | 36                                              | 1.0                                 | .00                                 |
| NOV 05... | 2000                                      | 160                       | 43                                     | 42                              | 15                                 | 122                               | 68                                | 23                                | 106                                             | .79                                 | .01                                 |
| DEC 02... | 1100                                      | 160                       | 41                                     | 41                              | 14                                 | 119                               | 70                                | 25                                | 115                                             | .93                                 | .02                                 |
| JAN 13... | 2200                                      | 200                       | 50                                     | 52                              | 16                                 | 146                               | 71                                | 18                                | 48                                              | 1.6                                 | .02                                 |
| FEB 06... | 720                                       | 190                       | 44                                     | 49                              | 16                                 | 144                               | 64                                | 31                                | 61                                              | .98                                 | .02                                 |
| MAR 12... | 720                                       | 140                       | 55                                     | 37                              | 11                                 | 83                                | 55                                | 25                                | 298                                             | 1.7                                 | .06                                 |
| APR 21... | >800                                      | 140                       | 55                                     | 37                              | 12                                 | 87                                | 70                                | 27                                | 47                                              | 1.1                                 | .01                                 |
| MAY 05... | K1300                                     | 150                       | 63                                     | 41                              | 12                                 | 89                                | 63                                | 19                                | 284                                             | 2.1                                 | .01                                 |
| JUN 02... | --                                        | 130                       | 41                                     | 34                              | 11                                 | 89                                | 51                                | 17                                | 602                                             | 2.9                                 | .01                                 |
| JUL 09... | 720                                       | 140                       | 45                                     | 37                              | 11                                 | 93                                | 51                                | 17                                | 356                                             | 2.0                                 | .08                                 |
| AUG 05... | 780                                       | 140                       | 35                                     | 36                              | 11                                 | 100                               | 50                                | 17                                | 362                                             | 1.3                                 | .00                                 |
| SEP 02... | K1900                                     | 160                       | 31                                     | 43                              | 13                                 | 130                               | 48                                | 27                                | 71                                              | 1.9                                 | .04                                 |

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

> Actual value is known to be greater than the value shown.

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

LOWER MISSISSIPPI RIVER BASIN

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MISSISSIPPI RIVER MAIN STEM

07374120 MISSISSIPPI RIVER AT PLAQUEMINE, LA (CE 01170)--Continued

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

| DATE  | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN+AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BERYL-<br>LIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BE) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) |
|-------|------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|
| OCT   |                                                      |                                                                   |                                             |                                     |                                              |                                                                 |                                                      |                                                         |                                              |                                                                |
| 17... | 1.0                                                  | .00                                                               | .31                                         | 2                                   | 2                                            | 0                                                               | <1                                                   | 1                                                       | <1                                           | 0                                                              |
| NOV   |                                                      |                                                                   |                                             |                                     |                                              |                                                                 |                                                      |                                                         |                                              |                                                                |
| 05... | .80                                                  | 1.0                                                               | .34                                         | 3                                   | 2                                            | 0                                                               | <1                                                   | 4                                                       | <1                                           | 0                                                              |
| DEC   |                                                      |                                                                   |                                             |                                     |                                              |                                                                 |                                                      |                                                         |                                              |                                                                |
| 02... | .95                                                  | .86                                                               | .20                                         | 2                                   | 1                                            | 0                                                               | <1                                                   | 4                                                       | <1                                           | 0                                                              |
| JAN   |                                                      |                                                                   |                                             |                                     |                                              |                                                                 |                                                      |                                                         |                                              |                                                                |
| 13... | 1.6                                                  | .95                                                               | .14                                         | 2                                   | 1                                            | 0                                                               | <1                                                   | 0                                                       | <1                                           | 0                                                              |
| FEB   |                                                      |                                                                   |                                             |                                     |                                              |                                                                 |                                                      |                                                         |                                              |                                                                |
| 06... | 1.0                                                  | 1.0                                                               | .21                                         | 2                                   | 1                                            | 0                                                               | <1                                                   | 1                                                       | <1                                           | 0                                                              |
| MAR   |                                                      |                                                                   |                                             |                                     |                                              |                                                                 |                                                      |                                                         |                                              |                                                                |
| 12... | 1.8                                                  | 1.3                                                               | .37                                         | 3                                   | 1                                            | 0                                                               | <1                                                   | 1                                                       | <1                                           | 20                                                             |
| APR   |                                                      |                                                                   |                                             |                                     |                                              |                                                                 |                                                      |                                                         |                                              |                                                                |
| 21... | 1.1                                                  | 1.0                                                               | .31                                         | 2                                   | 1                                            | 0                                                               | <1                                                   | 0                                                       | <1                                           | 10                                                             |
| MAY   |                                                      |                                                                   |                                             |                                     |                                              |                                                                 |                                                      |                                                         |                                              |                                                                |
| 05... | 2.1                                                  | .84                                                               | .11                                         | 10                                  | 1                                            | 0                                                               | <1                                                   | 1                                                       | <1                                           | 20                                                             |
| JUN   |                                                      |                                                                   |                                             |                                     |                                              |                                                                 |                                                      |                                                         |                                              |                                                                |
| 02... | 2.9                                                  | 1.5                                                               | .85                                         | 4                                   | 1                                            | 0                                                               | 0                                                    | 4                                                       | 1                                            | 10                                                             |
| JUL   |                                                      |                                                                   |                                             |                                     |                                              |                                                                 |                                                      |                                                         |                                              |                                                                |
| 09... | 2.1                                                  | 1.5                                                               | .39                                         | 9                                   | 2                                            | 0                                                               | 0                                                    | 7                                                       | 0                                            | 20                                                             |
| AUG   |                                                      |                                                                   |                                             |                                     |                                              |                                                                 |                                                      |                                                         |                                              |                                                                |
| 05... | 1.3                                                  | 1.4                                                               | .41                                         | 4                                   | 2                                            | 0                                                               | <1                                                   | 6                                                       | <1                                           | 20                                                             |
| SEP   |                                                      |                                                                   |                                             |                                     |                                              |                                                                 |                                                      |                                                         |                                              |                                                                |
| 02... | 1.9                                                  | .70                                                               | .28                                         | 3                                   | 3                                            | 0                                                               | <1                                                   | 4                                                       | <1                                           | 10                                                             |

| DATE  | CHRO-<br>MIUM,<br>HEXA-<br>VALENT,<br>DIS.<br>(UG/L<br>AS CR) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) |
|-------|---------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|
| OCT   |                                                               |                                                         |                                              |                                            |                                                       |                                            |                                                         |                                              |                                                         |                                              |
| 17... | 0                                                             | 18                                                      | 6                                            | <10                                        | 7                                                     | 2                                          | .1                                                      | .0                                           | 7                                                       | 1                                            |
| NOV   |                                                               |                                                         |                                              |                                            |                                                       |                                            |                                                         |                                              |                                                         |                                              |
| 05... | 0                                                             | 18                                                      | 6                                            | 10                                         | 9                                                     | 3                                          | .1                                                      | .0                                           | 8                                                       | 2                                            |
| DEC   |                                                               |                                                         |                                              |                                            |                                                       |                                            |                                                         |                                              |                                                         |                                              |
| 02... | 0                                                             | 20                                                      | 12                                           | 10                                         | 18                                                    | 5                                          | .1                                                      | .1                                           | 7                                                       | 6                                            |
| JAN   |                                                               |                                                         |                                              |                                            |                                                       |                                            |                                                         |                                              |                                                         |                                              |
| 13... | 0                                                             | 11                                                      | 3                                            | 20                                         | 8                                                     | 0                                          | .1                                                      | .0                                           | 5                                                       | 4                                            |
| FEB   |                                                               |                                                         |                                              |                                            |                                                       |                                            |                                                         |                                              |                                                         |                                              |
| 06... | 1                                                             | 8                                                       | 5                                            | 10                                         | 11                                                    | 0                                          | .8                                                      | .9                                           | 0                                                       | 0                                            |
| MAR   |                                                               |                                                         |                                              |                                            |                                                       |                                            |                                                         |                                              |                                                         |                                              |
| 12... | 0                                                             | 24                                                      | 5                                            | 60                                         | 12                                                    | 4                                          | .2                                                      | .1                                           | 15                                                      | 12                                           |
| APR   |                                                               |                                                         |                                              |                                            |                                                       |                                            |                                                         |                                              |                                                         |                                              |
| 21... | 1                                                             | 8                                                       | 4                                            | 20                                         | 3                                                     | 0                                          | .1                                                      | .0                                           | 3                                                       | 3                                            |
| MAY   |                                                               |                                                         |                                              |                                            |                                                       |                                            |                                                         |                                              |                                                         |                                              |
| 05... | 0                                                             | 24                                                      | 6                                            | 40                                         | 13                                                    | 2                                          | .2                                                      | .1                                           | 16                                                      | 5                                            |
| JUN   |                                                               |                                                         |                                              |                                            |                                                       |                                            |                                                         |                                              |                                                         |                                              |
| 02... | 0                                                             | 38                                                      | 31                                           | 160                                        | 23                                                    | 0                                          | .2                                                      | .0                                           | 19                                                      | 8                                            |
| JUL   |                                                               |                                                         |                                              |                                            |                                                       |                                            |                                                         |                                              |                                                         |                                              |
| 09... | 0                                                             | 41                                                      | 10                                           | 20                                         | 15                                                    | 0                                          | .2                                                      | .0                                           | 17                                                      | 4                                            |
| AUG   |                                                               |                                                         |                                              |                                            |                                                       |                                            |                                                         |                                              |                                                         |                                              |
| 05... | 0                                                             | 35                                                      | 49                                           | <10                                        | 12                                                    | 4                                          | .3                                                      | .0                                           | 14                                                      | 2                                            |
| SEP   |                                                               |                                                         |                                              |                                            |                                                       |                                            |                                                         |                                              |                                                         |                                              |
| 02... | 0                                                             | 20                                                      | 7                                            | <10                                        | 7                                                     | 1                                          | .2                                                      | .1                                           | 7                                                       | 1                                            |

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

## LOWER MISSISSIPPI RIVER BASIN

## MISSISSIPPI RIVER MAIN STEM

07374120 MISSISSIPPI RIVER AT PLAQUEMINE, LA (CE 01170)--Continued

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

| DATE         | SELF-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE) | SELF-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | CARRON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CYANIDE<br>TOTAL<br>(MG/L<br>AS CN) | PHENOLS<br>(UG/L) | OIL AND<br>GREASE,<br>TOTAL<br>RECOV.<br>GRAVI-<br>METRIC<br>(MG/L) |
|--------------|--------------------------------------------|-----------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------|-------------------------------------|-------------------|---------------------------------------------------------------------|
| OCT<br>17... | 0                                          | 0                                                   | .0                                                 | 30                                                    | 5                                          | 7.4                                           | .00                                 | 1                 | 0                                                                   |
| NOV<br>05... | 1                                          | 0                                                   | 5.0                                                | 30                                                    | <3                                         | 12                                            | .00                                 | 5                 | 0                                                                   |
| DEC<br>02... | 0                                          | 0                                                   | 1.0                                                | 80                                                    | 8                                          | 7.6                                           | .00                                 | 1                 | 0                                                                   |
| JAN<br>13... | 0                                          | 0                                                   | 1.0                                                | 20                                                    | 20                                         | 13                                            | .00                                 | 3                 | 0                                                                   |
| FEB<br>06... | 1                                          | 1                                                   | 2.0                                                | 10                                                    | 4                                          | 10                                            | .00                                 | 2                 | 0                                                                   |
| MAR<br>12... | 0                                          | 0                                                   | 1.0                                                | 80                                                    | 6                                          | 11                                            | .00                                 | 2                 | 0                                                                   |
| APR<br>21... | 0                                          | 0                                                   | 1.0                                                | 20                                                    | 10                                         | 5.7                                           | .00                                 | 1                 | 0                                                                   |
| MAY<br>05... | 0                                          | 0                                                   | .0                                                 | 60                                                    | 6                                          | 9.9                                           | .00                                 | 1                 | 0                                                                   |
| JUN<br>02... | 0                                          | 0                                                   | 2.0                                                | 100                                                   | 10                                         | 9.0                                           | .00                                 | 3                 | 0                                                                   |
| JUL<br>09... | 0                                          | 1                                                   | 3.0                                                | 70                                                    | 20                                         | 4.7                                           | .00                                 | 3                 | 0                                                                   |
| AUG<br>05... | 1                                          | 0                                                   | 1.0                                                | 120                                                   | 20                                         | 8.7                                           | .00                                 | 0                 | 0                                                                   |
| SEP<br>02... | 1                                          | 0                                                   | 2.0                                                | 40                                                    | 6                                          | 4.4                                           | .00                                 | 1                 | 0                                                                   |

&lt; Actual value is known to be less than the value shown.

## LOWER MISSISSIPPI RIVER BASIN

## MISSISSIPPI RIVER MAIN STEM

07374220 MISSISSIPPI RIVER AT UNION, LA (CE 01222)

LOCATION.--Lat 30°05'52", long 90°54'45", T.11 S., R.15 E., St. James Parish, Hydrologic Unit 08070100, near center of span on downstream side of Sunshine Bridge on State Highway 3089, 0.7 mi (1.1 km) northwest of Union, and at mile 167.5 (269.5 km).

DRAINAGE AREA.--Not determined.

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

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

| DATE      | TIME | SPECIFIC CONDUCTANCE (UMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLAT-INUM-COBALT UNITS) | TURBIDITY (NTU) | SETTLABLE MATTER (ML/L/HR) | OXYGEN, DIS-SOLVED (MG/L) | OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) | OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L) | COLIFORM, TOTAL, IMMEDIATE (COLS. PER 100 ML) |
|-----------|------|------------------------------|------------|---------------------|--------------------------------|-----------------|----------------------------|---------------------------|---------------------------------------------|-------------------------------------------|-----------------------------------------------|
| OCT 16... | 1300 | 416                          | 6.8        | 21.5                | 5                              | 2.0             | <1.0                       | 7.9                       | 29                                          | .0                                        | 700                                           |
| NOV 05... | 1200 | 421                          | 7.2        | 17.0                | 15                             | 50              | <1.0                       | 8.6                       | 24                                          | 3.6                                       | 760                                           |
| DEC 03... | 1300 | 468                          | 7.2        | 10.0                | 15                             | 40              | <1.0                       | 10.5                      | 31                                          | 2.4                                       | 13000                                         |
| JAN 13... | 1200 | 510                          | 7.6        | 6.0                 | 5                              | 10              | <1.0                       | 12.2                      | 20                                          | 3.1                                       | 1600                                          |
| FEB 06... | 1030 | 531                          | 7.8        | 8.0                 | 5                              | 15              | <1.0                       | 11.2                      | 0                                           | 3.7                                       | 3500                                          |
| MAR 12... | 1000 | 393                          | 7.3        | 9.0                 | 10                             | 13              | <1.0                       | 9.0                       | 33                                          | 3.7                                       | 2700                                          |
| APR 21... | 1000 | 414                          | 7.2        | 20.0                | 5                              | 20              | <1.0                       | 8.1                       | 49                                          | 1.4                                       | 1900                                          |
| MAY 11... | 1330 | 391                          | 7.2        | 21.0                | 5                              | 65              | <1.0                       | 7.6                       | 32                                          | --                                        | --                                            |
| JUN 02... | 1230 | 353                          | 7.0        | 21.0                | 5                              | 160             | <1.0                       | 6.1                       | 41                                          | 1.9                                       | 1800                                          |
| JUL 09... | 1500 | 337                          | 6.8        | 27.5                | 10                             | 160             | <1.0                       | 6.1                       | 68                                          | .2                                        | 4700                                          |
| AUG 05... | 0930 | 374                          | 7.1        | 29.0                | 10                             | 150             | <1.0                       | 6.2                       | 45                                          | .2                                        | K2200                                         |
| SEP 02... | 1000 | 447                          | 7.7        | 29.0                | 5                              | 50              | <1.0                       | 6.8                       | 73                                          | --                                        | K3000                                         |

| DATE      | COLIFORM, FE CAL, 0.7 UM-MF (COLS./100 ML) | HARDNESS (MG/L AS CAC03) | HARDNESS, NONCARBONATE (MG/L AS CAC03) | CALCIUM DIS-SOLVED (MG/L AS CA) | MAGNESIUM, DIS-SOLVED (MG/L AS MG) | ALKALINITY FIELD (MG/L AS CAC03) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLORIDE, DIS-SOLVED (MG/L AS CL) | SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) | NITROGEN, NITRATE TOTAL (MG/L AS N) | NITROGEN, NITRITE TOTAL (MG/L AS N) |
|-----------|--------------------------------------------|--------------------------|----------------------------------------|---------------------------------|------------------------------------|----------------------------------|----------------------------------|-----------------------------------|--------------------------------------------------|-------------------------------------|-------------------------------------|
| OCT 16... | 560                                        | 160                      | 30                                     | 40                              | 14                                 | 127                              | 62                               | 27                                | 26                                               | 1.1                                 | .01                                 |
| NOV 05... | K20                                        | 150                      | 32                                     | 39                              | 13                                 | 119                              | 63                               | 21                                | 138                                              | .79                                 | .01                                 |
| DEC 03... | K2000                                      | 150                      | 36                                     | 39                              | 13                                 | 115                              | 69                               | 26                                | 105                                              | .92                                 | .02                                 |
| JAN 13... | K300                                       | 200                      | 55                                     | 53                              | 17                                 | 147                              | 72                               | 35                                | 25                                               | 1.7                                 | .03                                 |
| FEB 06... | K1400                                      | 200                      | 48                                     | 52                              | 17                                 | 152                              | 64                               | 31                                | 29                                               | 1.1                                 | .01                                 |
| MAR 12... | 400                                        | 140                      | 55                                     | 38                              | 12                                 | 89                               | 58                               | 28                                | 286                                              | 1.7                                 | .06                                 |
| APR 21... | 320                                        | 150                      | 65                                     | 40                              | 13                                 | 88                               | 71                               | 24                                | 35                                               | 1.2                                 | .01                                 |
| MAY 11... | 780                                        | 150                      | 53                                     | 39                              | 12                                 | 94                               | 63                               | 19                                | 238                                              | 1.5                                 | .01                                 |
| JUN 02... | --                                         | 120                      | 35                                     | 33                              | 10                                 | 89                               | 49                               | 15                                | 490                                              | 1.2                                 | .15                                 |
| JUL 09... | R40                                        | 140                      | 44                                     | 36                              | 11                                 | 91                               | 50                               | 17                                | 382                                              | 1.9                                 | .06                                 |
| AUG 05... | K1300                                      | 140                      | 41                                     | 37                              | 12                                 | 100                              | 49                               | 17                                | 344                                              | 1.3                                 | .00                                 |
| SEP 02... | 200                                        | 160                      | 31                                     | 43                              | 13                                 | 130                              | 50                               | 31                                | 139                                              | 1.9                                 | .03                                 |

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

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



## LOWER MISSISSIPPI RIVER BASIN

## MISSISSIPPI RIVER MAIN STEM

07374220 MISSISSIPPI RIVER AT UNION, LA (CE Q1222)--Continued

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

| DATE      | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN+AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BERYL-<br>LIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BE) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) |
|-----------|------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|
| OCT 16... | 1.1                                                  | 1.8                                                               | .31                                         | 2                                   | 2                                            | 0                                                               | <1                                                   | 0                                                       | 1                                            | 0                                                              |
| NOV 05... | .80                                                  | .99                                                               | .33                                         | 3                                   | 2                                            | 0                                                               | <1                                                   | 2                                                       | 1                                            | 10                                                             |
| DEC 03... | .94                                                  | .71                                                               | .32                                         | 2                                   | 1                                            | 0                                                               | <1                                                   | 8                                                       | 1                                            | 0                                                              |
| JAN 13... | 1.7                                                  | 1.1                                                               | .10                                         | 1                                   | 1                                            | 0                                                               | <1                                                   | 0                                                       | <1                                           | 0                                                              |
| FEB 06... | 1.1                                                  | 1.1                                                               | .21                                         | 2                                   | 1                                            | 0                                                               | <1                                                   | 1                                                       | <1                                           | 10                                                             |
| MAR 12... | 1.8                                                  | 1.7                                                               | .37                                         | 3                                   | 1                                            | 0                                                               | <1                                                   | 7                                                       | <1                                           | 30                                                             |
| APR 21... | 1.2                                                  | .93                                                               | .11                                         | 1                                   | 1                                            | 0                                                               | <1                                                   | 0                                                       | <1                                           | 20                                                             |
| MAY 11... | 1.5                                                  | .82                                                               | .16                                         | 2                                   | 1                                            | 0                                                               | <1                                                   | 0                                                       | 1                                            | 10                                                             |
| JUN 02... | 1.3                                                  | 1.3                                                               | .52                                         | 2                                   | 1                                            | 0                                                               | 0                                                    | 6                                                       | 1                                            | 10                                                             |
| JUL 09... | 2.0                                                  | 1.5                                                               | .24                                         | 8                                   | 2                                            | 0                                                               | 0                                                    | 5                                                       | 0                                            | 20                                                             |
| AUG 05... | 1.3                                                  | 1.1                                                               | .27                                         | 4                                   | 2                                            | 0                                                               | --                                                   | 9                                                       | --                                           | 10                                                             |
| SEP 02... | 1.9                                                  | .78                                                               | .30                                         | 3                                   | 2                                            | 0                                                               | <1                                                   | 7                                                       | <1                                           | 10                                                             |

| DATE      | CHRO-<br>MIUM,<br>HEXA-<br>VALENT,<br>DIS-<br>(UG/L<br>AS CR) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) |
|-----------|---------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|
| OCT 16... | 0                                                             | 7                                                       | 5                                            | 10                                         | 4                                                     | 0                                          | .1                                                      | .0                                           | 4                                                       | 1                                            |
| NOV 05... | 0                                                             | 21                                                      | 7                                            | 10                                         | 10                                                    | 2                                          | .1                                                      | .0                                           | 10                                                      | 6                                            |
| DEC 03... | 0                                                             | 27                                                      | 7                                            | 20                                         | 11                                                    | 1                                          | .1                                                      | .0                                           | 8                                                       | 6                                            |
| JAN 13... | --                                                            | 7                                                       | 3                                            | 10                                         | 6                                                     | 0                                          | .1                                                      | .5                                           | 2                                                       | 4                                            |
| FEB 06... | 0                                                             | 10                                                      | 4                                            | 10                                         | 8                                                     | 0                                          | 3.4                                                     | .1                                           | 0                                                       | 2                                            |
| MAR 12... | 0                                                             | 37                                                      | 4                                            | 40                                         | 14                                                    | 1                                          | .1                                                      | .2                                           | 16                                                      | 3                                            |
| APR 21... | 0                                                             | 11                                                      | 4                                            | 20                                         | 3                                                     | 0                                          | .1                                                      | .1                                           | 4                                                       | 3                                            |
| MAY 11... | 0                                                             | 10                                                      | 4                                            | 20                                         | 5                                                     | 3                                          | .1                                                      | .0                                           | 5                                                       | 0                                            |
| JUN 02... | 0                                                             | 32                                                      | 12                                           | 50                                         | 20                                                    | 0                                          | .2                                                      | .1                                           | 16                                                      | 6                                            |
| JUL 09... | 0                                                             | 26                                                      | 8                                            | 30                                         | 16                                                    | 0                                          | .4                                                      | .0                                           | 12                                                      | 2                                            |
| AUG 05... | 0                                                             | 32                                                      | 7                                            | --                                         | 9                                                     | 2                                          | 1.2                                                     | .0                                           | 12                                                      | 2                                            |
| SEP 02... | 0                                                             | 20                                                      | 8                                            | <10                                        | 6                                                     | 1                                          | .4                                                      | .6                                           | 5                                                       | 1                                            |

&lt; Actual value is known to be less than the value shown.

LOWER MISSISSIPPI RIVER BASIN

81

MISSISSIPPI RIVER MAIN STEM

07374220 MISSISSIPPI RIVER AT UNION, LA (CE 01222)--Continued

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

| DATE  | SILF-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CYANIDE<br>TOTAL<br>(MG/L<br>AS CN) | PHENOLS<br>(UG/L) | OIL AND<br>GREASE,<br>TOTAL<br>RECOV.<br>GRAVI-<br>METRIC<br>(MG/L) |
|-------|--------------------------------------------|-----------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------|-------------------------------------|-------------------|---------------------------------------------------------------------|
| OCT   |                                            |                                                     |                                                    |                                                       |                                            |                                               |                                     |                   |                                                                     |
| 16... | 0                                          | 0                                                   | 1.0                                                | 20                                                    | 5                                          | 8.7                                           | .00                                 | 0                 | 0                                                                   |
| NOV   |                                            |                                                     |                                                    |                                                       |                                            |                                               |                                     |                   |                                                                     |
| 05... | 0                                          | 0                                                   | 5.0                                                | 40                                                    | 5                                          | 14                                            | .00                                 | 0                 | 0                                                                   |
| DEC   |                                            |                                                     |                                                    |                                                       |                                            |                                               |                                     |                   |                                                                     |
| 03... | 0                                          | 0                                                   | 1.0                                                | 210                                                   | 10                                         | 7.6                                           | .00                                 | 4                 | 0                                                                   |
| JAN   |                                            |                                                     |                                                    |                                                       |                                            |                                               |                                     |                   |                                                                     |
| 13... | 0                                          | 0                                                   | 2.0                                                | 20                                                    | 8                                          | 7.4                                           | .00                                 | 1                 | 0                                                                   |
| FEB   |                                            |                                                     |                                                    |                                                       |                                            |                                               |                                     |                   |                                                                     |
| 06... | 1                                          | 0                                                   | .0                                                 | 20                                                    | 6                                          | 12                                            | .00                                 | 0                 | 0                                                                   |
| MAR   |                                            |                                                     |                                                    |                                                       |                                            |                                               |                                     |                   |                                                                     |
| 12... | 0                                          | 0                                                   | 1.0                                                | 80                                                    | 4                                          | 12                                            | .00                                 | 0                 | 0                                                                   |
| APR   |                                            |                                                     |                                                    |                                                       |                                            |                                               |                                     |                   |                                                                     |
| 21... | 0                                          | 0                                                   | 1.0                                                | 20                                                    | 20                                         | 5.9                                           | .00                                 | 0                 | 0                                                                   |
| MAY   |                                            |                                                     |                                                    |                                                       |                                            |                                               |                                     |                   |                                                                     |
| 11... | 0                                          | 0                                                   | 1.0                                                | 30                                                    | 20                                         | 8.3                                           | .00                                 | 0                 | 0                                                                   |
| JUN   |                                            |                                                     |                                                    |                                                       |                                            |                                               |                                     |                   |                                                                     |
| 02... | 0                                          | 0                                                   | 2.0                                                | 70                                                    | 20                                         | 9.9                                           | .00                                 | 1                 | 0                                                                   |
| JUL   |                                            |                                                     |                                                    |                                                       |                                            |                                               |                                     |                   |                                                                     |
| 09... | 0                                          | 0                                                   | 3.0                                                | 100                                                   | 20                                         | 8.7                                           | .00                                 | 0                 | 0                                                                   |
| AUG   |                                            |                                                     |                                                    |                                                       |                                            |                                               |                                     |                   |                                                                     |
| 05... | 1                                          | 0                                                   | 1.0                                                | 110                                                   | --                                         | 12                                            | .00                                 | 0                 | 0                                                                   |
| SEP   |                                            |                                                     |                                                    |                                                       |                                            |                                               |                                     |                   |                                                                     |
| 02... | 1                                          | 0                                                   | 2.0                                                | 40                                                    | 8                                          | 3.9                                           | .00                                 | 2                 | 0                                                                   |

## LOWER MISSISSIPPI RIVER BASIN

## MISSISSIPPI RIVER MAIN STEM

07374400 MISSISSIPPI RIVER AT LULING, LA (CE 01290)  
(Formerly published as 07374400 Mississippi River at Luling Ferry, LA (CE 01290))

LOCATION.--Lat 29°56'19", long 90°21'49", T.13 S., R.21 E., St. Charles Parish, Hydrologic Unit 08090100, at Luling-Destrehan ferry crossing, 17 mi (27.4 km) west of New Orleans, and at mile 120.6 (194.0 km).

DRAINAGE AREA.--1,125,800 mi<sup>2</sup> (2,915,800 km<sup>2</sup>), arbitrarily determined.

PERIOD OF RECORD.--Water years 1958 to current year.

## PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1957 to September 1972, October 1974 to September 1975, October 1976 to current year.

WATER TEMPERATURES: October 1957 to September 1972, October 1977 to current year.

CHLORIDE: October 1974 to September 1975, October 1976 to current year.

SULFATE: October 1974 to September 1975, October 1976 to September 1978.

DISSOLVED SOLIDS: October 1978 to current year.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 636 micromhos Oct. 12, 1959; minimum daily, 219 micromhos Mar. 27, 28, 30, 1964.

WATER TEMPERATURES: Maximum daily, 32.5°C July 10, 16, 17, 1980; minimum daily, 3.0°C Jan. 12, 1962.

CHLORIDE: Maximum daily, 69 mg/L June 24, 1977; minimum daily, 11 mg/L Mar. 22, 1975.

SULFATE: Maximum daily, 89 mg/L Oct. 10, 1977; minimum daily, 20 mg/L Feb. 8, Apr. 26, 1978.

DISSOLVED SOLIDS: Maximum, 339 mg/L Nov. 21-30, 1978; minimum, 152 mg/L Dec. 21-31, 1978.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 588 micromhos Feb. 1; minimum daily, 331 micromhos June 8.

WATER TEMPERATURES: Maximum daily, 31.5°C July 17, 22, 26, Aug. 3; minimum daily, 5.0°C Jan. 6, 13.

CHLORIDE: Maximum daily, 41 mg/L Feb. 6, 8; minimum daily, 16 mg/L June 7.

DISSOLVED SOLIDS: Maximum, 321 mg/L Nov. 11-20; minimum, 201 mg/L June 11-20.

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

| DATE      | TIME | SPECIFIC CONDUCTANCE (UMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (NTU) | SETTLABLE MATTER (ML/L/HR) | OXYGEN, DIS-SOLVED (MG/L) | OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) | OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L) | COLOR, TOTAL, IMMEDIATE (COLS. PER 100 ML) |
|-----------|------|------------------------------|------------|---------------------|-------------------------------|-----------------|----------------------------|---------------------------|---------------------------------------------|-------------------------------------------|--------------------------------------------|
| OCT 16... | 1130 | 473                          | 7.1        | 21.5                | 5                             | 2.0             | <1.0                       | 7.6                       | 24                                          | .0                                        | 770                                        |
| NOV 05... | 1430 | 496                          | 7.4        | 17.5                | 10                            | 25              | <1.0                       | 9.0                       | 13                                          | 2.1                                       | 4200                                       |
| DEC 04... | 1500 | 469                          | 7.4        | 10.5                | 15                            | 40              | <1.0                       | 10.1                      | 28                                          | 1.3                                       | 1300                                       |
| JAN 13... | 1430 | 534                          | 7.6        | 6.5                 | 5                             | 10              | <1.0                       | 11.6                      | 19                                          | 3.3                                       | --                                         |
| FEB 04... | 1200 | 575                          | 7.5        | 6.5                 | 5                             | 15              | <1.0                       | 11.9                      | 6                                           | 2.7                                       | 1600                                       |
| MAR 11... | 1400 | 423                          | 7.1        | 9.5                 | 10                            | 130             | <1.0                       | 8.6                       | 42                                          | 5.5                                       | 2800                                       |
| APR 20... | 1400 | 407                          | 7.2        | 22.5                | 10                            | 30              | <1.0                       | 8.1                       | 16                                          | 4.0                                       | 2100                                       |
| MAY 11... | 1055 | 393                          | 7.1        | 21.0                | 10                            | 70              | <1.0                       | 7.4                       | 29                                          | --                                        | --                                         |
| JUN 02... | 1530 | 362                          | 7.1        | 21.0                | 10                            | 200             | <1.0                       | 6.0                       | 18                                          | 1.1                                       | 1100                                       |
| JUL 10... | 1030 | 349                          | 6.8        | 27.5                | 5                             | 160             | <1.0                       | 6.0                       | 58                                          | --                                        | 3000                                       |
| AUG 04... | 1315 | 414                          | 7.3        | 30.0                | 10                            | 120             | <1.0                       | 6.2                       | 45                                          | --                                        | K1000                                      |
| SEP 01... | 1300 | 495                          | 7.7        | 29.0                | 5                             | 45              | <1.0                       | 6.7                       | 56                                          | .3                                        | K900                                       |

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

## MISSISSIPPI RIVER MAIN STEM

07374400 MISSISSIPPI RIVER AT LULING, LA (CE 01290)--Continued

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

| DATE      | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCT<br>FECAL,<br>KF AGAR<br>(COLS./<br>PFR<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | ALKA-<br>LINITY<br>FIELD<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) | NITRO-<br>GEN,<br>NITRATE<br>TOTAL<br>(MG/L<br>AS N) |
|-----------|----------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------|
| OCT 16... | K40                                                            | 240                                                                 | 170                                    | 42                                                     | 44                                           | 14                                                   | 125                                               | 67                                            | 30                                                  | 21                                                                  | 1.2                                                  |
| NOV 05... | K700                                                           | --                                                                  | 170                                    | 50                                                     | 44                                           | 15                                                   | 122                                               | 76                                            | 27                                                  | 5                                                                   | .81                                                  |
| DEC 04... | K220                                                           | --                                                                  | 150                                    | 38                                                     | 39                                           | 13                                                   | 113                                               | 72                                            | 29                                                  | 103                                                                 | .92                                                  |
| JAN 13... | 200                                                            | --                                                                  | 190                                    | 56                                                     | 51                                           | 16                                                   | 137                                               | 73                                            | 36                                                  | 12                                                                  | 1.7                                                  |
| FEB 04... | 210                                                            | --                                                                  | 210                                    | 62                                                     | 56                                           | 18                                                   | 152                                               | 72                                            | 42                                                  | 27                                                                  | 1.2                                                  |
| MAR 11... | K280                                                           | --                                                                  | 150                                    | 54                                                     | 40                                           | 12                                                   | 95                                                | 60                                            | 28                                                  | 374                                                                 | 1.5                                                  |
| APR 20... | K150                                                           | --                                                                  | 150                                    | 60                                                     | 40                                           | 12                                                   | 89                                                | 67                                            | 25                                                  | 82                                                                  | 1.2                                                  |
| MAY 11... | 780                                                            | --                                                                  | 150                                    | 57                                                     | 40                                           | 12                                                   | 92                                                | 62                                            | 27                                                  | 208                                                                 | 1.9                                                  |
| JUN 02... | --                                                             | --                                                                  | 140                                    | 45                                                     | 36                                           | 11                                                   | 90                                                | 53                                            | 17                                                  | 550                                                                 | 2.1                                                  |
| JUL 10... | 480                                                            | --                                                                  | 140                                    | 45                                                     | 37                                           | 11                                                   | 93                                                | 50                                            | 20                                                  | 334                                                                 | 1.9                                                  |
| AUG 04... | K180                                                           | --                                                                  | 150                                    | 44                                                     | 40                                           | 13                                                   | 109                                               | 56                                            | 19                                                  | 244                                                                 | 1.6                                                  |
| SEP 01... | 460                                                            | --                                                                  | 170                                    | 49                                                     | 45                                           | 14                                                   | 121                                               | 63                                            | 43                                                  | 52                                                                  | 1.7                                                  |

| DATE      | NITRO-<br>GEN,<br>NITRATE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN+AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BERYL-<br>LIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BE) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) |
|-----------|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|
| OCT 16... | .01                                                  | 1.2                                                  | 1.2                                                               | .41                                         | 2                                   | 2                                            | 0                                                               | <1                                                   | 1                                                       | 2                                            | 0                                                              |
| NOV 05... | .01                                                  | .82                                                  | 1.4                                                               | .30                                         | 2                                   | 2                                            | 0                                                               | <1                                                   | 2                                                       | <1                                           | 0                                                              |
| DEC 04... | .02                                                  | .94                                                  | .79                                                               | .13                                         | 2                                   | 1                                            | 0                                                               | <1                                                   | 5                                                       | <1                                           | 0                                                              |
| JAN 13... | .02                                                  | 1.7                                                  | 1.3                                                               | .19                                         | 1                                   | 1                                            | 0                                                               | <1                                                   | 0                                                       | <1                                           | 10                                                             |
| FEB 04... | .01                                                  | 1.2                                                  | .78                                                               | .26                                         | 1                                   | 1                                            | 0                                                               | <1                                                   | 6                                                       | 1                                            | 0                                                              |
| MAR 11... | .06                                                  | 1.6                                                  | 1.3                                                               | .06                                         | 3                                   | 1                                            | 0                                                               | <1                                                   | 5                                                       | <1                                           | 30                                                             |
| APR 20... | .02                                                  | 1.2                                                  | .88                                                               | .18                                         | 1                                   | 1                                            | 0                                                               | <1                                                   | 0                                                       | <1                                           | 10                                                             |
| MAY 11... | .01                                                  | 1.9                                                  | .97                                                               | .43                                         | 2                                   | 1                                            | 10                                                              | <1                                                   | 1                                                       | 2                                            | 10                                                             |
| JUN 02... | .03                                                  | 2.1                                                  | 1.1                                                               | .62                                         | 5                                   | 1                                            | 0                                                               | 0                                                    | 6                                                       | 1                                            | 20                                                             |
| JUL 10... | .03                                                  | 1.9                                                  | 1.2                                                               | .43                                         | 5                                   | 2                                            | 0                                                               | 0                                                    | 3                                                       | 1                                            | 10                                                             |
| AUG 04... | .00                                                  | 1.6                                                  | .65                                                               | .15                                         | 5                                   | 2                                            | 0                                                               | <1                                                   | 11                                                      | <1                                           | 20                                                             |
| SEP 01... | .03                                                  | 1.7                                                  | .82                                                               | .26                                         | 2                                   | 2                                            | 0                                                               | <1                                                   | 1                                                       | <1                                           | 0                                                              |

&lt; Actual value is known to be less than the value shown.

## LOWER MISSISSIPPI RIVER BASIN

## MISSISSIPPI RIVER MAIN STEM

07374400 MISSISSIPPI RIVER AT LULING, LA (CE 01290)--Continued

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

| DATE      | CHROMIUM,<br>HEXAVALENT,<br>DIS-<br>(UG/L<br>AS CR) | COPPER,<br>TOTAL<br>RECOVERABLE<br>(UG/L<br>AS CU) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOVERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MERCURY,<br>TOTAL<br>RECOVERABLE<br>(UG/L<br>AS HG) | MERCURY,<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOVERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SFLE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE) |
|-----------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------------|--------------------------------------------|-----------------------------------------------------|-----------------------------------------------|----------------------------------------------------|----------------------------------------------|--------------------------------------------|
| OCT 16... | 0                                                   | 16                                                 | 6                                            | <10                                        | 6                                                | 0                                          | .1                                                  | .1                                            | 5                                                  | 0                                            | 0                                          |
| NOV 05... | 0                                                   | 32                                                 | 7                                            | 10                                         | 7                                                | 3                                          | .2                                                  | .0                                            | 6                                                  | 7                                            | 0                                          |
| DEC 04... | 0                                                   | 17                                                 | 6                                            | 20                                         | 8                                                | 1                                          | .1                                                  | .0                                            | 8                                                  | 8                                            | 0                                          |
| JAN 13... | 10                                                  | 7                                                  | 3                                            | 10                                         | 3                                                | 0                                          | .1                                                  | .0                                            | 3                                                  | 4                                            | 0                                          |
| FEB 04... | 0                                                   | 190                                                | 6                                            | 20                                         | 8                                                | 0                                          | .3                                                  | .0                                            | 3                                                  | 1                                            | 0                                          |
| MAR 11... | 0                                                   | 46                                                 | 5                                            | 20                                         | 20                                               | 4                                          | .2                                                  | .0                                            | 20                                                 | 3                                            | 0                                          |
| APR 20... | 0                                                   | 11                                                 | 6                                            | 20                                         | 0                                                | 2                                          | .2                                                  | .0                                            | 5                                                  | 2                                            | 0                                          |
| MAY 11... | 0                                                   | 13                                                 | 5                                            | 20                                         | 7                                                | 2                                          | .4                                                  | .0                                            | 7                                                  | 1                                            | 0                                          |
| JUN 02... | 0                                                   | 36                                                 | 10                                           | 390                                        | 22                                               | 0                                          | .3                                                  | .0                                            | 20                                                 | 6                                            | 0                                          |
| JUL 10... | 0                                                   | 25                                                 | 7                                            | 20                                         | 9                                                | 1                                          | .2                                                  | .0                                            | 13                                                 | 2                                            | 0                                          |
| AUG 04... | 0                                                   | 26                                                 | 5                                            | <10                                        | 8                                                | 2                                          | .2                                                  | .0                                            | 9                                                  | 1                                            | 1                                          |
| SEP 01... | 0                                                   | 8                                                  | 8                                            | <10                                        | 5                                                | 2                                          | .4                                                  | .0                                            | 2                                                  | 4                                            | 0                                          |

| DATE      | SFLE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SF) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>TOTAL<br>RECOVERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | TRITIUM<br>IN<br>WATER<br>MOLECULES<br>(TU) | TRITIUM<br>WATER<br>MOLECULES<br>COUNT<br>ERROR<br>(TU) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CYANIDE<br>TOTAL<br>(MG/L<br>AS CN) | PHENOLS<br>(UG/L) | OIL AND<br>GREASE,<br>TOTAL<br>RECOVERABLE<br>GRAVIMETRIC<br>(MG/L) |
|-----------|-----------------------------------------------------|----------------------------------------------------|--------------------------------------------------|--------------------------------------------|---------------------------------------------|---------------------------------------------------------|-----------------------------------------------|-------------------------------------|-------------------|---------------------------------------------------------------------|
| OCT 16... | 0                                                   | .0                                                 | 70                                               | 10                                         | 41.9                                        | 1.7                                                     | 7.2                                           | .00                                 | 0                 | 0                                                                   |
| NOV 05... | 0                                                   | 4.0                                                | 20                                               | <3                                         | 42.4                                        | 1.7                                                     | 6.6                                           | .00                                 | 0                 | 0                                                                   |
| DEC 04... | 0                                                   | 1.0                                                | 20                                               | 7                                          | --                                          | --                                                      | 7.1                                           | .00                                 | 4                 | 0                                                                   |
| JAN 13... | 0                                                   | 2.0                                                | 20                                               | 10                                         | 36.8                                        | 1.5                                                     | 7.0                                           | .00                                 | 6                 | 0                                                                   |
| FEB 04... | 0                                                   | 4.0                                                | 30                                               | 6                                          | 41.8                                        | 1.6                                                     | 6.1                                           | .00                                 | 0                 | 0                                                                   |
| MAR 11... | 0                                                   | 1.0                                                | 90                                               | 9                                          | 44.9                                        | 1.7                                                     | 13                                            | .00                                 | 1                 | 0                                                                   |
| APR 20... | 0                                                   | 1.0                                                | 30                                               | 9                                          | 42.4                                        | 1.7                                                     | 4.4                                           | .00                                 | 0                 | 0                                                                   |
| MAY 11... | 0                                                   | 1.0                                                | 50                                               | 30                                         | 37.6                                        | 1.6                                                     | 9.7                                           | .00                                 | 2                 | 0                                                                   |
| JUN 02... | 0                                                   | 2.0                                                | 90                                               | 10                                         | 48.8                                        | 4.4                                                     | 11                                            | .00                                 | 5                 | 0                                                                   |
| JUL 10... | 0                                                   | 3.0                                                | 60                                               | 20                                         | --                                          | --                                                      | 9.8                                           | .00                                 | 0                 | 0                                                                   |
| AUG 04... | 0                                                   | 1.0                                                | 60                                               | 19                                         | --                                          | --                                                      | 2.5                                           | .00                                 | 2                 | 0                                                                   |
| SEP 01... | 0                                                   | 2.0                                                | 30                                               | 8                                          | --                                          | --                                                      | 3.7                                           | .00                                 | 2                 | 0                                                                   |

&lt; Actual value is known to be less than the value shown.

## MISSISSIPPI RIVER MAIN STEM

07374400 MISSISSIPPI RIVER AT LULING, LA (CE 01290)--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 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   | 460 | 486 | 470 | 463 | 548 | 424 | 433 | 418 | 360 | 333 | 432 | 495 |
| 2   | 466 | 471 | 469 | 463 | 545 | 424 | 433 | 420 | 359 | 334 | 432 | 495 |
| 3   | 489 | 488 | 463 | 462 | 547 | 425 | 433 | 421 | 358 | 334 | 432 | 496 |
| 4   | 486 | 499 | 463 | 463 | 548 | 425 | 433 | 421 | 371 | 334 | 372 | 495 |
| 5   | 490 | 496 | 464 | 463 | 548 | 426 | 434 | 422 | 332 | 334 | 340 | 496 |
| 6   | 465 | 482 | 463 | 464 | 557 | 400 | 434 | 423 | 360 | 334 | 371 | 496 |
| 7   | 466 | 482 | 463 | 493 | 548 | 404 | 404 | 423 | 334 | 334 | 371 | 495 |
| 8   | 465 | 470 | 462 | 462 | 545 | 404 | 403 | 410 | 331 | 334 | 372 | 498 |
| 9   | 461 | 447 | 473 | 492 | 548 | 406 | 403 | 413 | 375 | 334 | 373 | 495 |
| 10  | 461 | 486 | 463 | 516 | 526 | 406 | 396 | 413 | 370 | --- | 373 | 496 |
| 11  | 461 | 536 | 471 | 516 | 527 | 405 | 394 | 412 | 352 | 399 | 373 | 480 |
| 12  | 461 | 536 | 472 | 516 | 491 | 397 | 401 | 412 | 370 | 399 | 363 | 477 |
| 13  | 461 | 535 | 471 | 515 | 492 | 397 | 408 | 414 | 355 | 399 | 342 | 500 |
| 14  | 461 | 536 | 479 | 549 | 491 | 398 | 410 | 413 | 332 | 398 | 357 | 500 |
| 15  | 471 | 535 | 480 | 559 | 492 | 398 | 410 | 422 | 335 | 398 | --- | 501 |
| 16  | 472 | 536 | 507 | 558 | 491 | 370 | 410 | 423 | 332 | 377 | 355 | 500 |
| 17  | 472 | 536 | 506 | 559 | 491 | 369 | 410 | 423 | 332 | 378 | 363 | 500 |
| 18  | 473 | 536 | 517 | 558 | 436 | 362 | --- | 422 | 332 | 377 | 411 | 499 |
| 19  | 472 | 536 | 515 | 558 | 499 | 381 | --- | 423 | 337 | 377 | 411 | 474 |
| 20  | 471 | 522 | 516 | 559 | 491 | 380 | --- | 423 | 342 | 399 | 411 | 472 |
| 21  | 471 | 522 | 518 | 559 | 457 | 380 | 438 | 422 | 336 | 376 | 411 | 476 |
| 22  | 476 | 507 | 515 | 559 | 459 | 380 | 437 | 435 | 343 | 377 | 411 | 475 |
| 23  | 466 | 511 | 507 | 570 | 463 | 391 | 439 | 436 | 342 | 375 | 411 | 482 |
| 24  | 461 | 506 | 500 | 571 | 463 | 380 | 437 | 435 | 346 | 382 | 411 | 481 |
| 25  | 470 | 512 | 499 | 584 | 463 | 401 | 436 | 435 | 339 | 381 | 411 | 528 |
| 26  | 470 | 506 | 500 | 584 | 463 | 386 | 439 | 436 | 345 | 382 | 494 | 528 |
| 27  | 464 | 496 | 500 | 584 | 463 | 404 | 444 | 436 | 345 | 381 | 495 | 529 |
| 28  | 474 | 496 | 498 | 584 | 422 | 402 | 443 | 436 | 346 | 381 | 495 | 529 |
| 29  | 456 | 496 | 499 | 586 | --- | 433 | 443 | 435 | 345 | 381 | 495 | 529 |
| 30  | 484 | 482 | 477 | 587 | --- | 423 | 442 | --- | 344 | 432 | 495 | 528 |
| 31  | 485 | --- | 477 | 583 | --- | 424 | --- | --- | --- | 432 | 496 | --- |
| MAX | 490 | 536 | 518 | 587 | 588 | 433 | 444 | 436 | 375 | 432 | 496 | 529 |
| MIN | 451 | 470 | 462 | 462 | 422 | 362 | 394 | 410 | 331 | 333 | 340 | 472 |

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   | 26.0 | 19.5 | 11.5 | 8.0 | 9.0 | 7.0  | 14.5 | 21.0 | 23.0 | ---  | 30.0 | 28.5 |
| 2   | 27.0 | 19.0 | 11.0 | 7.0 | 6.5 | 7.5  | 15.0 | 21.5 | 23.5 | 27.0 | 30.5 | 30.0 |
| 3   | 25.0 | 17.5 | 11.0 | 7.0 | 6.5 | 7.5  | 15.0 | 21.5 | 22.5 | 28.5 | 31.5 | 28.5 |
| 4   | 24.0 | 17.5 | 11.5 | 7.5 | 6.0 | 8.0  | 14.5 | 21.0 | 23.5 | 27.0 | 29.5 | 29.5 |
| 5   | 24.5 | 18.5 | 12.0 | 5.5 | 7.5 | 10.0 | 15.0 | 20.5 | 23.0 | 27.5 | 30.0 | 29.5 |
| 6   | ---  | 18.0 | 11.5 | 5.0 | 7.0 | 10.0 | 15.5 | 21.0 | 22.5 | 28.5 | 29.0 | 29.5 |
| 7   | ---  | 18.0 | 12.5 | 6.0 | 8.0 | 10.5 | 16.0 | 21.0 | 23.0 | 28.0 | 29.5 | 29.5 |
| 8   | ---  | 16.5 | 12.5 | 6.0 | 7.5 | 11.5 | 16.5 | 21.0 | 24.0 | 28.0 | 28.5 | 28.5 |
| 9   | 21.5 | 18.0 | 11.5 | 5.5 | 8.5 | 10.5 | 16.0 | 21.0 | 24.5 | 27.5 | 29.5 | 28.0 |
| 10  | 20.5 | 18.0 | 11.0 | 7.0 | 8.0 | 11.0 | 18.5 | 21.5 | 25.0 | 28.5 | 29.0 | 29.5 |
| 11  | 20.0 | 16.5 | 11.5 | 6.5 | 8.5 | 10.5 | 19.0 | 20.5 | 25.0 | 29.0 | 28.5 | 27.0 |
| 12  | 21.0 | 16.0 | 11.5 | 6.0 | 6.5 | 13.5 | 18.0 | 21.5 | 25.5 | 28.5 | 29.0 | 27.5 |
| 13  | 21.0 | 17.0 | 11.0 | 5.0 | 7.5 | 15.0 | 20.0 | 21.0 | 26.0 | 30.0 | 28.5 | 26.0 |
| 14  | 19.0 | 15.0 | 11.0 | 7.5 | 7.5 | 15.0 | 19.5 | 21.5 | 27.0 | 29.5 | 29.0 | 27.0 |
| 15  | 21.0 | 14.5 | 11.0 | 5.5 | 7.0 | 15.5 | 20.0 | 22.0 | 26.5 | 29.5 | ---  | 26.5 |
| 16  | 20.5 | 15.0 | 10.0 | 6.5 | 7.0 | 10.0 | 21.0 | 22.0 | 26.5 | 29.5 | 30.0 | 26.5 |
| 17  | 19.5 | 13.0 | 10.0 | 6.0 | 6.5 | 10.0 | 20.5 | 21.5 | 26.5 | 31.5 | 29.5 | 26.5 |
| 18  | 20.5 | 13.5 | 9.5  | 5.5 | 6.0 | 12.0 | 20.0 | 22.5 | 27.0 | 30.5 | 29.5 | 25.5 |
| 19  | 19.5 | 14.0 | 10.0 | 6.5 | 6.0 | 12.0 | 20.5 | 21.0 | 27.5 | 30.0 | 30.0 | 26.0 |
| 20  | 19.5 | 15.5 | 9.0  | 6.0 | 6.5 | 12.5 | 21.5 | 20.5 | 28.0 | 30.5 | 30.0 | 26.5 |
| 21  | 20.0 | 15.0 | 9.5  | 6.0 | 6.5 | 12.0 | 20.0 | 20.0 | 27.5 | 30.5 | 28.5 | 27.0 |
| 22  | 21.5 | 14.0 | 10.5 | 6.5 | 6.0 | 11.5 | 20.0 | 20.0 | 28.0 | 31.5 | 29.5 | 27.5 |
| 23  | 21.5 | 14.5 | 12.0 | 6.0 | 6.5 | 11.5 | 21.0 | 23.5 | 29.5 | 31.0 | 29.0 | 26.5 |
| 24  | 20.0 | 13.5 | 7.0  | 6.0 | 7.0 | 12.0 | 21.0 | 22.0 | 28.5 | 30.0 | 29.5 | 26.5 |
| 25  | 20.0 | 12.5 | 7.5  | 6.0 | 7.5 | 12.0 | 20.5 | 21.5 | 29.0 | 30.5 | 28.5 | 25.5 |
| 26  | 20.0 | 13.0 | 8.0  | 5.5 | 7.5 | 12.0 | 21.5 | 21.5 | 27.0 | 31.5 | 29.0 | 25.5 |
| 27  | 20.5 | 12.0 | 8.0  | 6.0 | 8.5 | 12.5 | 21.5 | 22.5 | 27.5 | 31.0 | 29.5 | 26.0 |
| 28  | 20.0 | 12.0 | 7.0  | 6.5 | 9.0 | 12.0 | 20.5 | 22.5 | 29.0 | 30.5 | 29.0 | 26.5 |
| 29  | 20.0 | 11.5 | 6.5  | 7.5 | --- | 13.5 | 20.5 | 20.5 | 28.5 | 30.5 | 29.0 | 25.5 |
| 30  | 19.5 | 12.0 | 7.5  | 8.5 | --- | 14.0 | 20.5 | ---  | 28.5 | 30.5 | 29.5 | 26.0 |
| 31  | 19.0 | ---  | 7.5  | 8.5 | --- | 14.0 | ---  | ---  | ---  | 31.0 | 27.5 | ---  |
| MAX | 27.0 | 19.5 | 12.5 | 8.5 | 9.0 | 15.5 | 21.5 | 23.5 | 29.5 | 31.5 | 31.5 | 30.0 |
| MIN | 19.0 | 11.5 | 6.5  | 5.0 | 6.0 | 7.0  | 14.5 | 20.0 | 22.5 | 27.0 | 27.5 | 25.5 |



## LOWER MISSISSIPPI RIVER BASIN

## MISSISSIPPI RIVER MAIN STEM

07374400 MISSISSIPPI RIVER AT LULING, LA (CE 01290)--Continued

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

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1   | 29  | 34  | 34  | 36  | 38  | 34  | 30  | 28  | 18  | 20  | 28  | 35  |
| 2   | 34  | 27  | 32  | 34  | 40  | 35  | 30  | 30  | 21  | 20  | 28  | 36  |
| 3   | 33  | 34  | 33  | 34  | 38  | 34  | 32  | 26  | 17  | 20  | 28  | 29  |
| 4   | 30  | 30  | --- | 35  | 38  | 33  | 32  | 27  | 17  | 20  | 24  | 35  |
| 5   | 34  | --- | 34  | 35  | 40  | 34  | 32  | 26  | 22  | 22  | 24  | 34  |
| 6   | 26  | 25  | 28  | 36  | 41  | 30  | 30  | 26  | 20  | 19  | 25  | 36  |
| 7   | 32  | 36  | 32  | 38  | 40  | 34  | 30  | 29  | 16  | 20  | 24  | 35  |
| 8   | 28  | 25  | 35  | 32  | 41  | 30  | 32  | --- | 20  | 20  | 23  | 35  |
| 9   | 36  | 31  | 35  | 40  | 38  | 30  | 32  | 30  | 23  | 20  | 25  | 30  |
| 10  | 31  | 30  | 35  | 40  | 40  | 32  | 32  | --- | 24  | 24  | 24  | 34  |
| 11  | 33  | 35  | 30  | 40  | 36  | 31  | 30  | 24  | 22  | 30  | 25  | 30  |
| 12  | 30  | 35  | 34  | 36  | 34  | 32  | 31  | --- | 20  | 25  | 24  | 27  |
| 13  | 31  | 37  | 31  | 39  | 32  | 30  | 34  | 30  | 21  | 27  | 18  | 30  |
| 14  | 33  | 34  | 34  | --- | 34  | 30  | 30  | 26  | 19  | 26  | 22  | 30  |
| 15  | 34  | 34  | 35  | --- | 34  | 29  | 32  | 25  | 20  | 26  | --- | 30  |
| 16  | --- | 36  | 36  | --- | 32  | 30  | 31  | 29  | 20  | 26  | 23  | 32  |
| 17  | 36  | 34  | 38  | --- | 32  | 30  | 36  | 26  | 20  | 24  | 24  | 30  |
| 18  | 38  | 34  | 36  | --- | 33  | 32  | 24  | 26  | 20  | 26  | 31  | 29  |
| 19  | 32  | 34  | 40  | --- | 40  | 29  | 30  | 22  | 20  | 24  | 26  | 29  |
| 20  | 30  | 32  | 38  | --- | 31  | 28  | 26  | 32  | 20  | 25  | 28  | 26  |
| 21  | 26  | 34  | 37  | --- | 40  | 29  | 30  | 25  | 22  | 25  | 30  | 30  |
| 22  | 33  | 35  | 38  | --- | 40  | 30  | 30  | 28  | 20  | 25  | 30  | 28  |
| 23  | 33  | 34  | 35  | --- | 40  | 28  | 30  | 30  | 22  | 25  | 29  | 30  |
| 24  | 28  | 32  | 34  | --- | 40  | 27  | 30  | 25  | 22  | 26  | 28  | 32  |
| 25  | 30  | 35  | 36  | --- | 40  | 30  | 30  | 30  | 22  | 26  | 26  | 36  |
| 26  | 30  | 36  | 38  | --- | 40  | 29  | 29  | 29  | 18  | 24  | 34  | 34  |
| 27  | --- | 36  | 36  | --- | 38  | 32  | 30  | 27  | 21  | 26  | 31  | 36  |
| 28  | 30  | 36  | 36  | --- | 37  | 34  | 30  | 28  | 20  | 28  | 32  | 34  |
| 29  | 28  | 36  | 36  | --- | --- | 31  | 30  | 28  | 18  | 26  | 32  | 36  |
| 30  | 32  | 38  | 34  | --- | --- | 30  | 30  | --- | 19  | 27  | 32  | 35  |
| 31  | 30  | --- | 32  | --- | --- | 34  | --- | --- | --- | 32  | 33  | --- |
| MAX | 38  | 38  | 40  | --- | 41  | 35  | 36  | 32  | 24  | 32  | 34  | 36  |
| MIN | 26  | 25  | 28  | --- | 31  | 27  | 24  | 22  | 16  | 19  | 18  | 26  |

| DATE  | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) |
|-------|--------------------------------------------------------------------|-----------------------------------------------------|
| OCT   |                                                                    |                                                     |
| 01-10 | 283                                                                | .38                                                 |
| 11-20 | 287                                                                | .39                                                 |
| 21-31 | 278                                                                | .38                                                 |
| NOV   |                                                                    |                                                     |
| 01-10 | 299                                                                | .41                                                 |
| 11-20 | 321                                                                | .44                                                 |
| 21-30 | 295                                                                | .40                                                 |
| DEC   |                                                                    |                                                     |
| 01-10 | 283                                                                | .38                                                 |
| 11-20 | 301                                                                | .41                                                 |
| 21-31 | 301                                                                | .41                                                 |
| JAN   |                                                                    |                                                     |
| 01-10 | 277                                                                | .38                                                 |
| FEB   |                                                                    |                                                     |
| 01-10 | 319                                                                | .43                                                 |
| 11-20 | 288                                                                | .39                                                 |
| 21-28 | 267                                                                | .36                                                 |
| MAR   |                                                                    |                                                     |
| 01-10 | 242                                                                | .33                                                 |
| 11-20 | 236                                                                | .32                                                 |
| 21-31 | 241                                                                | .33                                                 |
| APR   |                                                                    |                                                     |
| 01-10 | 251                                                                | .34                                                 |
| 11-20 | 243                                                                | .33                                                 |
| 21-30 | 264                                                                | .36                                                 |

| DATE  | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) |
|-------|--------------------------------------------------------------------|-----------------------------------------------------|
| MAY   |                                                                    |                                                     |
| 01-10 | 245                                                                | .33                                                 |
| 11-20 | 259                                                                | .35                                                 |
| 21-31 | 250                                                                | .34                                                 |
| JUN   |                                                                    |                                                     |
| 01-10 | 205                                                                | .28                                                 |
| 11-20 | 201                                                                | .27                                                 |
| 21-30 | 202                                                                | .27                                                 |
| JUL   |                                                                    |                                                     |
| 01-10 | 211                                                                | .29                                                 |
| 11-20 | 250                                                                | .34                                                 |
| 21-31 | 243                                                                | .33                                                 |
| AUG   |                                                                    |                                                     |
| 01-10 | 249                                                                | .34                                                 |
| 11-20 | 233                                                                | .32                                                 |
| 21-31 | 257                                                                | .35                                                 |
| SEP   |                                                                    |                                                     |
| 01-10 | 272                                                                | .37                                                 |
| 11-20 | 265                                                                | .36                                                 |
| 21-30 | 297                                                                | .40                                                 |

## MISSISSIPPI RIVER DELTA

87

301002089441300 RIGOLETS NEAR LAKE PONTCHARTRAIN, NEAR SLIDELL, LA (CE 85700)

LOCATION.--Lat 30°10'02", long 89°44'13", T.10 S., R.15 E., Orleans Parish, Hydrologic Unit 08090203, at U.S. Highway 90, and 6.4 mi (10.3 km) southeast of Slidell.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April to May 1975.

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, 36.0°C Aug. 7, 8, 1981; minimum daily, 3.5°C Jan. 19, 1978.

CHLORIDE: Maximum daily, 14,000 mg/L Sept. 1, 1977; minimum daily, 150 mg/L May 30, 31, June 1-3, 1980.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 36.0°C Aug. 7, 8; minimum daily, 5.5°C Jan. 18.

CHLORIDE: Maximum daily, 12,000 mg/L Apr. 3; minimum daily, 2,000 mg/L Apr. 17.

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 | 17.0 | 13.0 | 10.0 | 13.0 | 19.5 | 21.0 | 24.5 | 28.0 | 28.5 | 30.5 | 28.0 |
| 2   | 25.0 | 17.0 | 13.0 | 10.0 | 13.0 | ---  | 20.0 | 24.5 | 28.0 | 28.5 | 31.0 | 28.0 |
| 3   | 25.0 | 17.0 | 13.0 | 10.0 | 13.0 | 17.0 | 19.0 | 24.5 | 28.0 | 28.0 | ---  | 28.0 |
| 4   | 27.0 | 17.0 | 13.0 | 10.0 | 8.0  | 17.0 | 15.5 | 24.5 | 28.0 | 28.0 | 30.5 | 28.0 |
| 5   | 27.0 | 17.0 | 13.0 | 10.0 | 8.0  | 17.0 | 15.0 | 24.5 | 28.0 | 29.0 | 30.0 | 28.0 |
| 6   | 27.0 | 17.0 | 13.0 | 10.0 | 8.0  | 17.0 | 14.0 | ---  | 28.0 | 28.5 | 30.0 | 28.5 |
| 7   | 27.0 | 17.0 | 13.0 | 10.0 | 8.0  | 17.0 | 14.0 | ---  | 28.0 | 29.0 | 36.0 | 28.5 |
| 8   | 25.0 | 17.0 | 13.0 | 9.0  | 11.0 | 16.0 | 14.0 | ---  | 28.0 | 29.0 | 36.0 | 28.5 |
| 9   | 25.0 | 17.0 | 13.0 | 10.0 | 12.0 | 15.0 | 23.0 | ---  | 28.0 | 30.0 | 30.0 | 29.0 |
| 10  | 25.0 | 17.0 | 16.0 | 9.0  | 12.0 | 15.0 | 23.0 | ---  | 28.0 | 30.5 | 30.0 | 27.0 |
| 11  | 25.0 | 17.0 | 13.0 | 9.0  | 9.0  | 15.0 | 22.0 | 21.0 | 28.0 | 30.0 | 29.0 | 27.0 |
| 12  | 25.0 | 17.0 | 13.0 | 7.0  | 8.0  | 14.0 | 23.0 | 21.0 | 28.0 | 29.5 | 32.0 | 27.0 |
| 13  | 27.0 | 19.0 | 13.0 | 6.0  | 10.5 | 16.0 | 23.0 | 23.0 | 30.0 | 30.0 | 29.0 | 27.0 |
| 14  | 27.0 | 19.0 | 13.0 | 8.0  | 10.5 | 16.0 | 23.0 | 23.0 | 29.0 | 27.5 | 32.0 | 27.0 |
| 15  | 20.0 | 19.0 | 13.0 | 8.5  | 10.0 | 16.0 | 24.0 | 23.0 | 29.0 | 30.5 | 29.0 | 27.0 |
| 16  | 20.0 | 19.0 | 14.0 | 7.0  | 10.0 | 16.0 | 24.0 | 23.0 | 30.0 | 30.5 | ---  | 27.0 |
| 17  | 20.0 | 19.0 | 14.0 | 6.5  | 12.0 | 16.0 | 24.0 | 24.0 | 30.0 | 30.5 | ---  | 26.0 |
| 18  | 20.0 | 15.0 | 12.0 | 5.5  | 12.0 | 14.5 | 24.0 | 24.0 | 30.0 | 30.0 | 28.5 | 27.0 |
| 19  | 20.0 | 15.0 | 13.0 | 6.5  | 12.0 | 15.0 | 25.0 | 25.0 | 30.0 | 30.0 | 28.5 | 26.0 |
| 20  | 20.0 | 15.0 | 13.0 | 7.0  | 12.0 | 15.5 | 26.0 | 23.0 | 30.0 | 30.0 | 28.5 | 23.0 |
| 21  | 20.0 | 15.0 | 13.0 | 7.0  | 12.0 | 15.0 | 25.0 | 22.0 | 30.0 | 30.0 | 28.5 | 23.0 |
| 22  | 20.0 | 15.0 | 11.0 | 7.0  | 12.0 | 14.5 | 25.0 | 23.0 | 30.0 | 30.5 | 28.5 | 23.0 |
| 23  | 20.0 | 15.0 | 11.0 | 8.0  | 13.0 | 13.0 | 24.0 | 23.0 | 30.0 | 31.0 | 28.5 | 23.0 |
| 24  | 20.0 | 15.0 | 13.0 | 9.0  | 14.0 | 14.0 | 24.0 | 24.0 | 30.0 | 30.5 | 28.5 | 25.0 |
| 25  | 20.0 | 15.0 | 13.0 | 9.5  | 15.0 | 14.5 | 23.0 | 26.0 | 30.5 | 31.0 | 27.0 | 24.0 |
| 26  | 20.0 | 15.0 | 13.0 | 10.0 | 15.5 | 14.5 | 23.0 | 26.0 | 30.0 | 31.0 | 27.0 | 24.0 |
| 27  | 20.0 | 15.0 | 13.0 | 11.0 | 15.5 | 15.0 | 23.0 | 26.0 | 29.0 | 31.5 | 28.0 | 25.0 |
| 28  | 20.0 | 15.0 | 13.0 | 11.0 | 15.5 | 19.0 | 24.0 | 27.0 | 29.0 | 31.5 | 28.0 | 25.0 |
| 29  | 20.0 | 15.0 | 13.0 | 10.0 | ---  | 19.5 | ---  | 27.0 | 29.0 | 31.0 | 28.0 | 25.0 |
| 30  | 20.0 | 15.0 | 13.0 | 11.0 | ---  | 19.5 | ---  | 27.0 | 28.0 | 30.0 | 28.0 | ---  |
| 31  | 20.0 | ---  | 13.0 | 12.0 | ---  | 20.5 | ---  | 27.0 | ---  | 30.0 | 28.0 | ---  |
| MAX | 27.0 | 19.0 | 16.0 | 12.0 | 15.5 | 20.5 | 26.0 | 27.0 | 30.5 | 31.5 | 36.0 | 29.0 |
| MIN | 20.0 | 15.0 | 11.0 | 5.5  | 8.0  | 13.0 | 14.0 | 21.0 | 28.0 | 27.5 | 27.0 | 23.0 |

301002089441300 RIGOLETS NEAR LAKE PONTCHARTRAIN, NEAR SLIDELL, LA (CE 85700)--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   | 3100 | 3400  | 2600 | 3400 | 8000 | 2900 | 5000  | 4100 | 3400 | 5400 | 4300 | 5600 |
| 2   | 3300 | 3200  | 2900 | 3600 | 8000 | ---  | 9100  | 3500 | 3500 | 3900 | 4300 | 4800 |
| 3   | 3200 | 2300  | 3400 | 3400 | 4900 | 6100 | 12000 | 4000 | 3200 | 3200 | ---  | 4700 |
| 4   | 3400 | 2900  | 2500 | 3800 | 4800 | 6100 | 2800  | 3400 | 3200 | 3500 | 4300 | 4800 |
| 5   | 3200 | 2900  | 2800 | 3400 | 5200 | 6000 | 3400  | 3300 | 3400 | 3400 | 4200 | 4800 |
| 6   | 3300 | 3200  | 2800 | 4200 | 8500 | 4000 | 3400  | ---  | 3600 | 3500 | 4200 | 4600 |
| 7   | 3500 | 3400  | 4700 | 5600 | 8700 | 3900 | 3500  | ---  | 3500 | 3600 | 3700 | 4800 |
| 8   | 3300 | 3100  | 4200 | 5900 | 8400 | 4100 | 2600  | ---  | 3400 | 3600 | 5300 | 4800 |
| 9   | 3200 | 3000  | 4600 | 5600 | 5300 | 4000 | 2800  | ---  | 3400 | 2400 | 5200 | 5200 |
| 10  | 3300 | 4400  | 3700 | 3500 | 8800 | 3500 | 2800  | ---  | 2500 | 2400 | 5300 | 5500 |
| 11  | 2900 | 4500  | 3600 | 5500 | 4900 | 3500 | 2900  | 3400 | 2500 | 3200 | 5200 | 5700 |
| 12  | 3700 | 5300  | 3200 | 3400 | 2600 | 3400 | 2200  | 3400 | 3400 | 3000 | 5600 | 5000 |
| 13  | 3500 | 5500  | 2400 | 3200 | 2700 | 2900 | 2200  | 3500 | 3300 | 3100 | 4900 | 5000 |
| 14  | 3800 | 7200  | 2300 | 3000 | 2700 | 2900 | 2300  | 3000 | 3200 | 3000 | 5000 | 4900 |
| 15  | 3600 | 10000 | 2300 | 4600 | 2300 | 3400 | 3000  | 3700 | 3200 | 2600 | 5000 | 5100 |
| 16  | 6700 | 9700  | 2900 | 4800 | 2500 | 3500 | 2900  | 3500 | 3100 | 2700 | ---  | 4700 |
| 17  | 6700 | 8000  | 2900 | 3500 | 2200 | 2400 | 2000  | 4600 | 3000 | 2700 | ---  | 5000 |
| 18  | 7100 | 8000  | 2300 | 3400 | 2100 | 2600 | 3200  | 4200 | 3000 | 2700 | 5400 | 3800 |
| 19  | 4200 | 6000  | 2700 | 5700 | 3100 | 2600 | 2100  | 4500 | 2900 | 2700 | 5500 | 3000 |
| 20  | 4200 | 4700  | 3500 | 4200 | 2600 | 2400 | 3200  | 4000 | 2900 | 2600 | 5500 | 4800 |
| 21  | 4000 | 4100  | 3400 | 4400 | 3100 | 2800 | 3200  | 3700 | 2900 | 2800 | 7800 | 4000 |
| 22  | 4100 | 4400  | 3600 | 4200 | 2900 | 2800 | 3300  | 3700 | 2900 | 2500 | 7800 | 4000 |
| 23  | 3900 | 6000  | 3700 | 5100 | 3200 | 2800 | 2800  | 4900 | 2800 | 2700 | 7900 | 5000 |
| 24  | 5000 | 6100  | 3800 | 4900 | 2600 | 2900 | 2900  | 5000 | 3000 | 4300 | 8000 | 5000 |
| 25  | 5000 | 6000  | 2700 | 5000 | 2900 | 2800 | 3000  | 5000 | 3000 | 4300 | 8000 | 4900 |
| 26  | 5000 | 5400  | 2700 | 5400 | 3700 | 2800 | 2700  | 4900 | 3100 | 4200 | 7800 | 5100 |
| 27  | 5100 | 2700  | 2700 | 7400 | 4000 | 5200 | 2600  | 3700 | 5100 | 4400 | 8500 | 5000 |
| 28  | 5300 | 2700  | 3500 | 6600 | 4600 | 5200 | 2500  | 3500 | 5200 | 4300 | 8300 | 5100 |
| 29  | 4500 | 2700  | 3500 | 6100 | ---  | 5100 | ---   | 3700 | 2900 | 4000 | 5800 | 5100 |
| 30  | 3500 | 2500  | ---  | 5800 | ---  | 7200 | ---   | 3400 | 5400 | 3900 | 5800 | 5600 |
| 31  | ---  | ---   | ---  | 6500 | ---  | 6400 | ---   | 3800 | ---  | 4200 | 5400 | ---  |
| MAX | 7100 | 10000 | 4700 | 7400 | 8800 | 7200 | 12000 | 5000 | 5400 | 5400 | 8500 | 5700 |
| MIN | 2900 | 2300  | 2300 | 3000 | 2100 | 2400 | 2000  | 3000 | 2500 | 2400 | 3700 | 3000 |

## MISSISSIPPI RIVER DELTA

301300089493000 LAKE PONTCHARTRAIN AT NORTH SHORE, NEAR SLIDELL, LA (CE 85685)

LOCATION.--Lat 30°13'00", long 89°49'30", T.9 S., R.14 E., St. Tammany Parish, Hydrologic Unit 08090202, at bridge on U.S. Highway 11, 3.1 mi (5.0 km) southwest of Slidell.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April to May 1975, June to August 1981.

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, 32.0°C July 9, 15, 16, 17, 1980; minimum daily, 3.0°C Jan. 3, 1979.

CHLORIDE: Maximum daily, 7,500 mg/L Aug. 30, 1976; minimum daily, 150 mg/L May 20, 23, 1980.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 30.0°C June 20, 21, July 11-15, 17-20, 22-31; minimum daily, 4.0°C Feb. 12.

CHLORIDE: Maximum daily, 7,300 mg/L Nov. 14; minimum daily, 1,900 mg/L Dec. 22.

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

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>CORAL<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | SETTLE-<br>ABLE<br>MATTER<br>(ML/L/<br>HR) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(HIGH<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>TOTAL,<br>IMMED.<br>(COLS.<br>PER<br>100 ML) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) |
|--------------|------|---------------------------------------------------|---------------|-----------------------------|---------------------------------------------|------------------------------|--------------------------------------------|-------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| JUN<br>18... | 0930 | 984                                               | 6.7           | 30.5                        | 5                                           | 3.0                          | <1.0                                       | 7.3                                 | 96                                                              | .8                                                             | 2800                                                           | --                                                             |
| AUG<br>12... | 1245 | 10300                                             | 7.3           | 30.5                        | 15                                          | 7.0                          | <1.0                                       | 7.5                                 | 140                                                             | 1.4                                                            | <10                                                            | <2                                                             |

| DATE         | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>FIELD<br>(MG/L<br>AS<br>CACO3) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) | NITRO-<br>GEN,<br>NITRATE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) |
|--------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| JUN<br>18... | 1100                                   | 1100                                                   | 75                                           | 220                                                  | 1600                                         | 57                                                  | 28                                              | 440                                           | 3100                                                | 12                                                                  | .01                                                  | .00                                                  |
| AUG<br>12... | 1200                                   | 1100                                                   | 81                                           | 230                                                  | 1900                                         | 62                                                  | 36                                              | 500                                           | 3300                                                | 10                                                                  | .00                                                  | .01                                                  |

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BERYL-<br>LIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BE) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS RE) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>HEXA-<br>VALENT,<br>DIS.<br>(UG/L<br>AS CR) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) |
|--------------|------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|
| JUN<br>18... | .01                                                  | --                                                                | .05                                         | 1                                   | 1                                            | 0                                                               | 0                                                    | 1                                                       | 1                                            | 0                                                              | 0                                                             | 7                                                       |
| AUG<br>12... | .01                                                  | .60                                                               | .05                                         | 1                                   | 1                                            | 10                                                              | 0                                                    | 0                                                       | 0                                            | 0                                                              | 0                                                             | 9                                                       |

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

## MISSISSIPPI RIVER DELTA

301300089493000 LAKE PONTCHARTRAIN AT NORTH SHORE, NEAR SLIDELL, LA (CE 85685)--Continued

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

| DATE         | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| JUN<br>18... | 2                                            | 40                                         | 22                                                    | 2                                          | .1                                                      | .2                                           | 8                                                       | 3                                            | 0                                          | 0                                                   | --                                                    | 30                                         |
| AUG<br>12... | 3                                            | 10                                         | 30                                                    | 1                                          | .5                                                      | .0                                           | 2                                                       | 2                                            | 0                                          | 0                                                   | 30                                                    | 20                                         |

| DATE         | CARRON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CYANIDE<br>TOTAL<br>(MG/L<br>AS CN) | PHENOLS<br>(UG/L) | OIL AND<br>GREASE,<br>TOTAL<br>RECOV.<br>GRAVI-<br>METRIC<br>(MG/L) | PCR,<br>TOTAL<br>(UG/L) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L) | ALDRIN,<br>TOTAL<br>(UG/L) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L) | DDD,<br>TOTAL<br>(UG/L) | DDE,<br>TOTAL<br>(UG/L) | DDT,<br>TOTAL<br>(UG/L) | DI-<br>AZINON,<br>TOTAL<br>(UG/L) |
|--------------|-----------------------------------------------|-------------------------------------|-------------------|---------------------------------------------------------------------|-------------------------|---------------------------------------------------------------|----------------------------|------------------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|
| JUN<br>18... | 4.2                                           | .00                                 | 0                 | 0                                                                   | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .01                               |
| AUG<br>12... | 6.0                                           | .00                                 | 1                 | 0                                                                   | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .02                               |

| DATE         | DI-<br>ELDRIN<br>TOTAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) | ENDRIN,<br>TOTAL<br>(UG/L) | ETHION,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L) | LINDANE<br>TOTAL<br>(UG/L) | MALA-<br>THION,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L) |
|--------------|----------------------------------|-------------------------------------|----------------------------|----------------------------|-------------------------------------|-----------------------------------------------|----------------------------|------------------------------------|--------------------------------------------|----------------------------------------------|---------------------------------------------|
| JUN<br>18... | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        |
| AUG<br>12... | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        |

| DATE         | MIREX,<br>TOTAL<br>(UG/L) | PARA-<br>THION,<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>TOTAL<br>(UG/L) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOTAL<br>TRI-<br>THION<br>(UG/L) | 2,4-D,<br>TOTAL<br>(UG/L) | 2, 4-DP<br>TOTAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) | CHLOR-A<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) | CHLOR-B<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) |
|--------------|---------------------------|------------------------------------|----------------------------------|------------------------------------|----------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| JUN<br>18... | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .03                       | <.01                       | <.01                       | <.01                       | .530                                                              | .000                                                              |
| AUG<br>12... | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .01                       | <.01                       | <.01                       | <.01                       | 4.35                                                              | .000                                                              |

&lt; Actual value is known to be less than the value shown.

## MISSISSIPPI RIVER DELTA

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301300089493000 LAKE PONTCHARTRAIN AT NORTH SHORE, NEAR SLIDELL, LA (CE 85685)--Continued

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   | 27.0 | 15.0 | 12.0 | 10.0 | 14.0 | 16.0 | 15.0 | 21.0 | ---  | ---  | ---  | 27.0 |
| 2   | 27.0 | 15.0 | 12.0 | 10.0 | 10.0 | 18.0 | 15.0 | 21.0 | ---  | ---  | ---  | 24.0 |
| 3   | 27.0 | 17.0 | 12.0 | 10.0 | 6.0  | ---  | 15.0 | 20.0 | ---  | ---  | ---  | 24.0 |
| 4   | 20.0 | 17.0 | 14.0 | 10.0 | 9.0  | 16.0 | 16.0 | 20.0 | 25.0 | ---  | ---  | 24.0 |
| 5   | 20.0 | 18.0 | 14.0 | 10.0 | 9.0  | 16.0 | 16.0 | 20.0 | 24.0 | ---  | 28.0 | 24.0 |
| 6   | 20.0 | 18.0 | 14.0 | 10.0 | 10.0 | 15.0 | 17.0 | 20.0 | 23.0 | 25.0 | 25.0 | 24.0 |
| 7   | 20.0 | 18.0 | 14.0 | 10.0 | 10.0 | 14.0 | 18.0 | ---  | 25.0 | 27.0 | 25.0 | 24.0 |
| 8   | 22.0 | 18.0 | 14.0 | 8.0  | 9.0  | 15.0 | 18.0 | ---  | 26.0 | 27.0 | 26.0 | 23.0 |
| 9   | 22.0 | 18.0 | 15.0 | 9.0  | 9.0  | 15.0 | 18.0 | ---  | ---  | 29.0 | 27.0 | 23.0 |
| 10  | 22.0 | 18.0 | 15.0 | 9.0  | 9.0  | 14.0 | 18.0 | ---  | 25.0 | 29.0 | 27.0 | 23.0 |
| 11  | 19.0 | 18.0 | 15.0 | 8.0  | 8.0  | 14.0 | 20.0 | ---  | 25.0 | 30.0 | 26.0 | 24.0 |
| 12  | 19.0 | 18.0 | 15.0 | 8.0  | 4.0  | 14.0 | 20.0 | ---  | 26.0 | 30.0 | 27.0 | 24.0 |
| 13  | 19.0 | 19.0 | 12.0 | 6.0  | 7.0  | 15.0 | 22.0 | ---  | 27.0 | 30.0 | 27.0 | 25.0 |
| 14  | 19.0 | 19.0 | 12.0 | 8.0  | 8.0  | 15.0 | 21.0 | ---  | 27.0 | 30.0 | 27.0 | 25.0 |
| 15  | 20.0 | 19.0 | 12.0 | 8.0  | 9.0  | 15.0 | 22.0 | ---  | 29.0 | 30.0 | 27.0 | 25.0 |
| 16  | 20.0 | 19.0 | 12.0 | 7.0  | 12.0 | 16.0 | 22.0 | ---  | 29.0 | 29.0 | 28.0 | 25.0 |
| 17  | 20.0 | 19.0 | 12.0 | 6.0  | 12.0 | 16.0 | 22.0 | ---  | 29.0 | 30.0 | 26.0 | 21.0 |
| 18  | 20.0 | 19.0 | 12.0 | 6.0  | 14.0 | 17.0 | 21.0 | ---  | 29.0 | 30.0 | 27.0 | 20.0 |
| 19  | 20.0 | ---  | 12.0 | 6.0  | 14.0 | 13.0 | 22.0 | ---  | 29.0 | 30.0 | 27.0 | 18.0 |
| 20  | 20.0 | ---  | 12.0 | 7.0  | 17.0 | 12.0 | 22.0 | ---  | 30.0 | 30.0 | 26.0 | 20.0 |
| 21  | 20.0 | 15.0 | 12.0 | 7.0  | 16.0 | 14.0 | 22.0 | ---  | 30.0 | 29.0 | 26.0 | 20.0 |
| 22  | 20.0 | 15.0 | 12.0 | 7.0  | 15.0 | 14.0 | 21.0 | ---  | 27.0 | 30.0 | 27.0 | 21.0 |
| 23  | 20.0 | 15.0 | 12.0 | 7.0  | 15.0 | 14.0 | 23.0 | ---  | ---  | 30.0 | 27.0 | 21.0 |
| 24  | 20.0 | 15.0 | 12.0 | 8.0  | 14.0 | 13.0 | 21.0 | ---  | ---  | 30.0 | 25.0 | 23.0 |
| 25  | 20.0 | 15.0 | 12.0 | 10.0 | 14.0 | 14.0 | 21.0 | ---  | ---  | 30.0 | 25.0 | 24.0 |
| 26  | 20.0 | 14.0 | 12.0 | 11.0 | 15.0 | 15.0 | 20.0 | ---  | ---  | 30.0 | 27.0 | 23.0 |
| 27  | 20.0 | 14.0 | 12.0 | 11.0 | 15.0 | 17.0 | 20.0 | ---  | ---  | 30.0 | 25.0 | 24.0 |
| 28  | 20.0 | 14.0 | 10.0 | 11.0 | 17.0 | 18.0 | 20.0 | ---  | ---  | 30.0 | 25.0 | 24.0 |
| 29  | 20.0 | 14.0 | 10.0 | 12.0 | ---  | 18.0 | ---  | ---  | ---  | 30.0 | 26.0 | 23.0 |
| 30  | 20.0 | 14.0 | 10.0 | 14.0 | ---  | 19.0 | ---  | ---  | ---  | 30.0 | 27.0 | 23.0 |
| 31  | 20.0 | ---  | 10.0 | 14.0 | ---  | 20.0 | ---  | ---  | ---  | 30.0 | 27.0 | ---  |
| MAX | 27.0 | 19.0 | 15.0 | 14.0 | 17.0 | 20.0 | 23.0 | ---  | ---  | 30.0 | 28.0 | 27.0 |
| MIN | 19.0 | 14.0 | 10.0 | 6.0  | 4.0  | 12.0 | 15.0 | ---  | ---  | 25.0 | 25.0 | 18.0 |

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   | 3200 | 2900 | 2700 | 2700 | ---  | 2700 | 2700 | 3400 | 3700 | 3000 | ---  | 4800 |
| 2   | 3400 | 2700 | 2400 | 2800 | 5300 | 2400 | 3400 | 3400 | 2600 | 2900 | ---  | 4000 |
| 3   | 3100 | 3300 | 2700 | 2800 | 4300 | ---  | 3400 | 4500 | 3600 | 3000 | ---  | 4100 |
| 4   | 3200 | 3200 | 2700 | 3600 | 4800 | 3900 | 2800 | 4600 | 3700 | 3000 | ---  | 4200 |
| 5   | 3200 | 2800 | 3000 | 3600 | 4100 | 3300 | 2500 | 4700 | 3900 | 3000 | 3300 | 4200 |
| 6   | 3100 | 3400 | 2800 | 3500 | 6900 | 3200 | 2400 | 4400 | 3700 | 3000 | 3300 | 4100 |
| 7   | 3100 | 3200 | 3000 | 3500 | 6800 | 3500 | 2700 | 4000 | 3800 | 2900 | 3100 | 4100 |
| 8   | 3100 | 3300 | 3200 | 3500 | 4900 | 3900 | 2800 | 3700 | 3600 | 2900 | 3800 | 4000 |
| 9   | 3100 | 3400 | 2900 | 3500 | 3100 | 3700 | 2800 | 3300 | ---  | 3000 | 3300 | 4000 |
| 10  | 3100 | 3200 | 2900 | 3600 | 3100 | 3600 | 2800 | 3400 | 3600 | 2800 | 3200 | 4500 |
| 11  | 3100 | 3500 | 2700 | 3100 | 3000 | 3000 | 2700 | 3300 | 3400 | 2900 | 3300 | 4100 |
| 12  | 2800 | 3200 | 2900 | 3000 | 2700 | 2900 | 2800 | 3500 | 3000 | 2900 | 4000 | 4000 |
| 13  | 3000 | 4700 | 2700 | 2900 | 2600 | 3000 | 2700 | 3500 | 2900 | 3400 | 3700 | 4100 |
| 14  | 3000 | 7300 | 2900 | 3000 | 2900 | 4000 | 2800 | 3400 | 2700 | 2600 | 3900 | 4100 |
| 15  | 3500 | 6600 | 2600 | 3100 | 2100 | 2900 | 3200 | 3500 | 3000 | 2700 | 3600 | 4100 |
| 16  | 4000 | 6700 | 2700 | 3100 | 3000 | 3100 | 3200 | 3600 | 2700 | 2500 | 3500 | 4800 |
| 17  | 4200 | 4700 | 2600 | 2900 | 2500 | 2800 | 3100 | 3700 | 3000 | 2500 | 3600 | 3900 |
| 18  | 4100 | 4800 | 2800 | 3100 | 2100 | 3000 | 3100 | 3700 | 3000 | 2600 | 3600 | 4800 |
| 19  | 4000 | 3900 | 2600 | 3100 | 2700 | 3400 | 2900 | 3600 | 2900 | 2500 | 4800 | 3800 |
| 20  | 3700 | 3700 | 2500 | 3200 | 2200 | 2400 | 3200 | 3700 | 2900 | 2500 | 5000 | 3500 |
| 21  | 3600 | 3700 | 2700 | 3200 | 2400 | 2500 | 3100 | 3900 | 3000 | 3000 | 5000 | 3500 |
| 22  | 3600 | 4700 | 1900 | 3000 | 2800 | 2100 | 2900 | 3800 | 3000 | 2700 | 5000 | 3800 |
| 23  | 3700 | 4600 | 3500 | 3000 | 2100 | 2200 | 2300 | 3700 | 3100 | 2600 | 4900 | 3600 |
| 24  | 3600 | 4300 | 2700 | 3100 | 2500 | 2300 | 2300 | 3600 | 3000 | 2800 | 4300 | 4000 |
| 25  | 3400 | 4500 | 2700 | 3900 | 2500 | 2600 | 2400 | 3600 | 3400 | 3000 | 5200 | 4000 |
| 26  | 3300 | 4300 | 2700 | 4100 | 2400 | 2600 | 2600 | 3700 | 3200 | 3100 | 5100 | 4600 |
| 27  | 3200 | 2800 | 2600 | 4300 | 2500 | 2600 | 2400 | 3600 | 3300 | 3100 | 4900 | 4900 |
| 28  | 3600 | 3100 | 2700 | 3800 | 2600 | 2700 | 2500 | 3900 | 3400 | 3100 | 5200 | 4100 |
| 29  | 3400 | 2800 | 2800 | 4500 | ---  | 4300 | ---  | 3700 | 3200 | 3100 | 4700 | 4100 |
| 30  | 3400 | 2600 | 2700 | 4900 | ---  | 4300 | ---  | 3400 | 3200 | 3200 | 4600 | 4800 |
| 31  | 3000 | ---  | ---  | 4100 | ---  | 4500 | ---  | ---  | ---  | ---  | 4800 | ---  |
| MAX | 4200 | 7300 | 3500 | 4900 | 6900 | 4500 | 3400 | 4700 | 3900 | 3400 | 5200 | 4900 |
| MIN | 2800 | 2600 | 1900 | 2700 | 2100 | 2100 | 2300 | 3300 | 2600 | 2500 | 3100 | 3500 |



## MISSISSIPPI RIVER DELTA

301500089572000 LAKE PONTCHARTRAIN AT MOUTH OF BAYOU LACOMBE, NEAR LACOMBE, LA (CE 05007)

LOCATION.--Lat 30°15'00", long 89°57'20", T.9 S., R.12 E., St. Tammany Parish, Hydrologic Unit 08090202, 4.3 mi (6.9 km) southwest of Lacombe.

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.

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

| DATE      | TIME | SPECIFIC CONDUCTANCE (MICROMHOS) | PH FIELD (UNITS) | COLOR (PLATINUM COBALT UNITS) | TURBIDITY (NTU) | SETTLABLE MATTER (ML/L/HR) | OXYGEN, DIS-SOLVED (MG/L) | OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) | OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L) | COLIFORM, TOTAL, IMMEDIATE (COLS. PER 100 ML) | COLIFORM, FECAL, U.7 UM-MF (COLS./100 ML) | HARDNESS (MG/L AS CaCO3) |
|-----------|------|----------------------------------|------------------|-------------------------------|-----------------|----------------------------|---------------------------|---------------------------------------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------|--------------------------|
| OCT 27... | 1030 | 6900                             | 7.6              | 0                             | 1.0             | <1.0                       | 9.7                       | 48                                          | 1.6                                         | K80                                           | <5                                        | 660                      |
| NOV 19... | 1040 | 8610                             | 7.5              | 5                             | 4.0             | <1.0                       | 9.5                       | 60                                          | .3                                          | <5                                            | <5                                        | 1000                     |
| DEC 09... | 1101 | 8330                             | 7.5              | 0                             | 3.0             | <1.0                       | 10.8                      | 90                                          | 1.8                                         | <4                                            | <2                                        | 950                      |
| JAN 19... | 1015 | 10100                            | 7.6              | 0                             | 5.0             | <1.0                       | 11.0                      | 65                                          | 1.3                                         | <4                                            | K4                                        | 1100                     |

| DATE      | HARDNESS, NONCARBONATE (MG/L AS CaCO3) | CALCIUM DIS-SOLVED (MG/L AS Ca) | MAGNESIUM, DIS-SOLVED (MG/L AS Mg) | SODIUM, DIS-SOLVED (MG/L AS Na) | POTASSIUM, DIS-SOLVED (MG/L AS K) | ALKALINITY (MG/L AS CaCO3) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLORIDE, DIS-SOLVED (MG/L AS Cl) | SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) | NITROGEN, NITRATE TOTAL (MG/L AS N) | NITROGEN, NITRITE TOTAL (MG/L AS N) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) |
|-----------|----------------------------------------|---------------------------------|------------------------------------|---------------------------------|-----------------------------------|----------------------------|----------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| OCT 27... | 620                                    | 50                              | 130                                | 1000                            | 41                                | 38                         | 210                              | 1900                              | 1                                               | .00                                 | .00                                 | .00                                 |
| NOV 19... | 960                                    | 73                              | 200                                | 1600                            | 59                                | 43                         | 330                              | 3000                              | 5                                               | .00                                 | .00                                 | .00                                 |
| DEC 09... | 910                                    | 68                              | 190                                | 1400                            | 70                                | 45                         | 380                              | 2700                              | 7                                               | .00                                 | .00                                 | .00                                 |
| JAN 19... | 1000                                   | 80                              | 210                                | 1800                            | 57                                | 54                         | 450                              | 3200                              | 9                                               | .08                                 | .00                                 | .08                                 |

| DATE      | NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC TOTAL (UG/L AS AS) | ARSENIC DIS-SOLVED (UG/L AS AS) | BERYLLIUM, TOTAL (UG/L AS RE) | BERYLLIUM, DIS-SOLVED (UG/L AS RE) | CADMIUM TOTAL (UG/L AS Cd) | CADMIUM DIS-SOLVED (UG/L AS Cd) | CHROMIUM, TOTAL (UG/L AS Cr) | CHROMIUM, HEXAVALENT, DIS. (UG/L AS Cr) | COPPER, TOTAL (UG/L AS Cu) | COPPER, DIS-SOLVED (UG/L AS Cu) |
|-----------|----------------------------------------------|-------------------------------|----------------------------|---------------------------------|-------------------------------|------------------------------------|----------------------------|---------------------------------|------------------------------|-----------------------------------------|----------------------------|---------------------------------|
| OCT 27... | 1.4                                          | .02                           | 1                          | 1                               | 0                             | 0                                  | 1                          | 0                               | 20                           | 0                                       | 4                          | 3                               |
| NOV 19... | .69                                          | .02                           | 1                          | 0                               | 0                             | 0                                  | 1                          | 0                               | 0                            | 0                                       | 3                          | 2                               |
| DEC 09... | .67                                          | .03                           | 0                          | 0                               | --                            | 10                                 | 0                          | 0                               | 0                            | 0                                       | 4                          | 0                               |
| JAN 19... | .78                                          | .03                           | 1                          | 0                               | 0                             | 0                                  | 0                          | 0                               | 30                           | 0                                       | 5                          | 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).

301500089572000 LAKE PONTCHARTRAIN AT MOUTH OF BAYOU LACOMBE, NEAR LACOMBE, LA (CE 05007)--Continued

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

| DATE         | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MERCURY<br>TOTAL<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | ZINC,<br>TOTAL<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|--------------------------------------------|-----------------------------------|--------------------------------------------|-------------------------------------|----------------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------------------|-----------------------------------|--------------------------------------------|-----------------------------------------------|
| OCT<br>27... | 10                                         | 4                                 | 3                                          | .0                                  | .0                                           | 3                                   | 3                                            | 0                                          | 0                                                   | 10                                | 10                                         | --                                            |
| NOV<br>19... | 30                                         | 6                                 | 2                                          | .1                                  | .0                                           | 2                                   | 3                                            | 0                                          | 0                                                   | 20                                | 20                                         | 5.1                                           |
| DEC<br>09... | 50                                         | 0                                 | 0                                          | .0                                  | .0                                           | 2                                   | 0                                            | 0                                          | 0                                                   | 20                                | 10                                         | 5.5                                           |
| JAN<br>19... | 50                                         | 8                                 | 1                                          | .0                                  | .0                                           | 5                                   | 2                                            | 0                                          | 0                                                   | 20                                | 10                                         | 5.5                                           |

| DATE         | CYANIDE<br>TOTAL<br>(MG/L<br>AS CN) | PHENOLS<br>(UG/L) | OIL AND<br>GREASE,<br>TOTAL<br>REC'D<br>GRAVI-<br>METRIC<br>(MG/L) | PCR<br>TOTAL<br>(UG/L) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L) | ALDRIN,<br>TOTAL<br>(UG/L) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L) | DDD,<br>TOTAL<br>(UG/L) | DDE,<br>TOTAL<br>(UG/L) | DDT,<br>TOTAL<br>(UG/L) | DI-<br>AZINON,<br>TOTAL<br>(UG/L) |
|--------------|-------------------------------------|-------------------|--------------------------------------------------------------------|------------------------|---------------------------------------------------------------|----------------------------|------------------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|
| OCT<br>27... | .00                                 | 2                 | 0                                                                  | .0                     | .0                                                            | .000                       | .0                                 | .000                    | .000                    | .000                    | .01                               |
| NOV<br>19... | .00                                 | 0                 | 0                                                                  | .0                     | .0                                                            | .000                       | .0                                 | .000                    | .000                    | .000                    | .00                               |
| DEC<br>09... | .00                                 | 8                 | 0                                                                  | <.1                    | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .01                               |
| JAN<br>19... | .00                                 | 1                 | 0                                                                  | <.1                    | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .01                               |

| DATE         | DI-<br>ELDRI,<br>TOTAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) | ENDRI,<br>TOTAL<br>(UG/L) | ETHION,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L) | LINDANE<br>TOTAL<br>(UG/L) | MALA-<br>THION,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METHYL<br>PANA-<br>THION,<br>TOTAL<br>(UG/L) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L) |
|--------------|----------------------------------|-------------------------------------|---------------------------|----------------------------|-------------------------------------|-----------------------------------------------|----------------------------|------------------------------------|--------------------------------------------|----------------------------------------------|---------------------------------------------|
| OCT<br>27... | .000                             | .000                                | .000                      | .00                        | .000                                | .000                                          | .000                       | .00                                | .00                                        | .00                                          | .00                                         |
| NOV<br>19... | .000                             | .000                                | .000                      | .00                        | .000                                | .000                                          | .000                       | .00                                | .00                                        | .00                                          | .00                                         |
| DEC<br>09... | <.001                            | <.001                               | <.001                     | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        |
| JAN<br>19... | <.001                            | <.001                               | <.001                     | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        |

| DATE         | MIREX,<br>TOTAL<br>(UG/L) | PARA-<br>THION,<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>TOTAL<br>(UG/L) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOTAL<br>TRI-<br>THION<br>(UG/L) | 2,4-D,<br>TOTAL<br>(UG/L) | 2, 4-DP<br>TOTAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) | CHLOR-A<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) | CHLOR-B<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) |
|--------------|---------------------------|------------------------------------|----------------------------------|------------------------------------|----------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| OCT<br>27... | .00                       | .00                                | .00                              | .0                                 | .00                              | .02                       | .00                        | .00                        | .00                        | 1.45                                                              | .000                                                              |
| NOV<br>19... | .00                       | .00                                | .00                              | .0                                 | .00                              | .02                       | .00                        | .00                        | .00                        | 1.04                                                              | .000                                                              |
| DEC<br>09... | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .04                       | .00                        | .00                        | .00                        | .050                                                              | .000                                                              |
| JAN<br>19... | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .03                       | .00                        | .00                        | .00                        | 4.06                                                              | .000                                                              |

&lt; Actual value is known to be less than the value shown.

## MISSISSIPPI RIVER DELTA

07375000 TCHEFUNCTA RIVER NEAR FOLSOM, LA

LOCATION.--Lat 30°36'57", long 90°14'55", on line between SE1/4NE1/4 and SW1/4NE1/4 sec. 13, T.5 S., R. 9 E., St. Helena meridian, Tangipahoa Parish, Hydrologic Unit 08090201, near center of span on downstream side of bridge on State Highway 40, 1.2 mi (1.9 km) upstream from Bull Branch, and 3.6 mi (5.8 km) southwest of Folsom.

DRAINAGE AREA.--95.5 mi<sup>2</sup> (247.3 km<sup>2</sup>), not including Bull Branch which has a drainage area of 7.5 mi<sup>2</sup> (19.4 km<sup>2</sup>) at State Highway 40. Total drainage area for extreme floods is 103 mi<sup>2</sup> (267 km<sup>2</sup>).

REVISED RECORDS.--WSP 1057: 1944(M), 1945. WSP 1281: 1953(M).

PERIOD OF RECORD.--October 1943 to current year. Prior to January 1944 monthly discharge only, published in WSP 1311. Prior to October 1954, published as Chefunct River near Folsom.

GAGE.--Water-stage recorder. Datum of gage is 62.11 ft (18.931 m) National Geodetic Vertical Datum of 1929. Prior to June 9, 1944, nonrecording gage at same site and datum.

REMARKS.--Records good. Records of dissolved oxygen and water temperatures for the water year 1981 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--38 years, 161 ft<sup>3</sup>/s (4.560 m<sup>3</sup>/s), 22.89 in/yr (581 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,200 ft<sup>3</sup>/s (827 m<sup>3</sup>/s) May 3, 1953, gage height, 22.26 ft (6.785 m), from rating curve extended above 13,000 ft<sup>3</sup>/s (370 m<sup>3</sup>/s) by contracted-opening measurement at gage height 22.10 ft (6.736 m); minimum discharge, 26 ft<sup>3</sup>/s (0.74 m<sup>3</sup>/s) Sept. 4, 15, 1968; minimum gage height, 4.80 ft (1.463 m) Oct. 5, 6, 1970.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft<sup>3</sup>/s (37 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|
| Feb. 11 | 0845 | *3100 87.8                                            | *17.45 5.319            |

Minimum discharge, 39 ft<sup>3</sup>/s (1.10 m<sup>3</sup>/s) Aug. 27, 28, Sept. 28, 29, 30; minimum gage height, 4.95 ft (1.509 m) Sept. 28, 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1     | 93   | 64   | 83   | 61   | 62   | 73   | 222  | 45   | 55   | 48   | 43   | 326  |
| 2     | 74   | 61   | 77   | 60   | 113  | 72   | 127  | 45   | 78   | 69   | 43   | 376  |
| 3     | 59   | 59   | 72   | 60   | 133  | 70   | 101  | 43   | 102  | 174  | 42   | 153  |
| 4     | 55   | 58   | 69   | 59   | 88   | 70   | 87   | 42   | 206  | 213  | 43   | 164  |
| 5     | 53   | 57   | 67   | 59   | 77   | 97   | 80   | 88   | 157  | 107  | 42   | 128  |
| 6     | 52   | 55   | 66   | 60   | 379  | 128  | 73   | 442  | 89   | 219  | 42   | 81   |
| 7     | 51   | 55   | 65   | 65   | 586  | 91   | 67   | 165  | 86   | 290  | 40   | 64   |
| 8     | 50   | 54   | 64   | 75   | 340  | 78   | 64   | 88   | 103  | 217  | 45   | 57   |
| 9     | 50   | 54   | 65   | 69   | 169  | 72   | 61   | 70   | 89   | 140  | 45   | 52   |
| 10    | 50   | 54   | 76   | 64   | 1000 | 68   | 59   | 65   | 72   | 92   | 43   | 49   |
| 11    | 49   | 54   | 124  | 62   | 2690 | 66   | 57   | 62   | 71   | 75   | 40   | 46   |
| 12    | 49   | 54   | 99   | 60   | 1180 | 65   | 55   | 58   | 79   | 67   | 40   | 45   |
| 13    | 49   | 53   | 80   | 59   | 528  | 64   | 55   | 54   | 90   | 62   | 41   | 44   |
| 14    | 48   | 53   | 73   | 60   | 255  | 63   | 55   | 54   | 74   | 60   | 41   | 44   |
| 15    | 49   | 54   | 70   | 60   | 192  | 62   | 53   | 52   | 63   | 57   | 41   | 47   |
| 16    | 49   | 63   | 68   | 60   | 180  | 60   | 52   | 50   | 59   | 54   | 42   | 63   |
| 17    | 48   | 65   | 67   | 59   | 192  | 60   | 51   | 50   | 57   | 53   | 43   | 54   |
| 18    | 53   | 65   | 65   | 58   | 170  | 59   | 50   | 49   | 55   | 52   | 44   | 46   |
| 19    | 121  | 68   | 64   | 58   | 142  | 56   | 50   | 48   | 55   | 49   | 45   | 44   |
| 20    | 135  | 60   | 62   | 59   | 124  | 57   | 49   | 45   | 52   | 48   | 44   | 43   |
| 21    | 81   | 58   | 62   | 61   | 112  | 57   | 48   | 45   | 50   | 47   | 44   | 43   |
| 22    | 64   | 59   | 61   | 61   | 104  | 88   | 48   | 45   | 49   | 46   | 42   | 42   |
| 23    | 59   | 91   | 61   | 58   | 102  | 119  | 47   | 43   | 55   | 46   | 43   | 41   |
| 24    | 57   | 140  | 64   | 58   | 96   | 100  | 53   | 43   | 56   | 45   | 42   | 41   |
| 25    | 56   | 98   | 72   | 58   | 87   | 74   | 52   | 49   | 61   | 44   | 42   | 41   |
| 26    | 55   | 115  | 72   | 58   | 82   | 65   | 49   | 184  | 105  | 44   | 41   | 41   |
| 27    | 54   | 264  | 66   | 57   | 78   | 62   | 47   | 182  | 64   | 50   | 40   | 41   |
| 28    | 166  | 261  | 64   | 58   | 75   | 59   | 46   | 87   | 53   | 51   | 42   | 40   |
| 29    | 126  | 124  | 63   | 57   | ---  | 64   | 47   | 63   | 49   | 46   | 47   | 39   |
| 30    | 91   | 95   | 62   | 56   | ---  | 237  | 47   | 54   | 48   | 46   | 42   | 39   |
| 31    | 72   | ---  | 61   | 56   | ---  | 472  | ---  | 50   | ---  | 44   | 89   | ---  |
| TOTAL | 2118 | 2465 | 2184 | 1865 | 9336 | 2828 | 1952 | 2460 | 2282 | 2655 | 1363 | 2334 |
| MEAN  | 68.3 | 82.2 | 70.5 | 60.2 | 333  | 91.2 | 65.1 | 79.4 | 76.1 | 85.6 | 44.0 | 77.8 |
| MAX   | 166  | 264  | 124  | 75   | 2690 | 472  | 222  | 442  | 206  | 290  | 89   | 376  |
| MIN   | 48   | 53   | 61   | 56   | 62   | 56   | 46   | 42   | 48   | 44   | 40   | 39   |
| CFSM  | .66  | .80  | .68  | .58  | 3.23 | .89  | .63  | .77  | .74  | .83  | .43  | .76  |
| IN.   | .76  | .89  | .79  | .67  | 3.37 | 1.02 | .70  | .89  | .82  | .96  | .49  | .84  |

| CAL YR 1980 | TOTAL | 67456 | MEAN | 184  | MAX | 3250 | MIN | 48 | CFSM | 1.79 | IN | 24.36 |
|-------------|-------|-------|------|------|-----|------|-----|----|------|------|----|-------|
| WTR YR 1981 | TOTAL | 33842 | MEAN | 92.7 | MAX | 2690 | MIN | 39 | CFSM | .90  | IN | 12.22 |

07375000 TCHEFUNCTA RIVER NEAR FOLSOM, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB   | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|-------|------|------|------|------|------|------|------|
| 1    | 6.10 | 5.55 | 5.86 | 5.49 | 5.52  | 5.70 | 7.61 | 5.21 | 5.38 | 5.12 | 5.03 | 8.64 |
| 2    | 5.77 | 5.50 | 5.76 | 5.48 | 6.31  | 5.68 | 6.51 | 5.20 | 5.79 | 5.51 | 5.04 | 9.06 |
| 3    | 5.51 | 5.47 | 5.69 | 5.47 | 6.60  | 5.66 | 6.14 | 5.18 | 6.16 | 7.04 | 5.02 | 6.80 |
| 4    | 5.42 | 5.44 | 5.63 | 5.47 | 5.94  | 5.65 | 5.92 | 5.16 | 7.46 | 7.53 | 5.02 | 6.95 |
| 5    | 5.38 | 5.42 | 5.61 | 5.46 | 5.76  | 6.07 | 5.81 | 5.87 | 6.82 | 6.14 | 5.01 | 6.45 |
| 6    | 5.35 | 5.40 | 5.58 | 5.48 | 9.02  | 6.53 | 5.69 | 9.60 | 5.85 | 7.57 | 5.02 | 5.72 |
| 7    | 5.33 | 5.38 | 5.56 | 5.56 | 10.71 | 5.98 | 5.60 | 6.96 | 5.79 | 8.32 | 4.99 | 5.42 |
| 8    | 5.30 | 5.37 | 5.55 | 5.73 | 8.73  | 5.78 | 5.54 | 5.93 | 6.08 | 7.59 | 5.08 | 5.29 |
| 9    | 5.30 | 5.37 | 5.56 | 5.64 | 7.06  | 5.68 | 5.50 | 5.65 | 5.84 | 6.62 | 5.07 | 5.21 |
| 10   | 5.29 | 5.38 | 5.75 | 5.55 | 11.90 | 5.62 | 5.46 | 5.56 | 5.56 | 5.90 | 5.04 | 5.14 |
| 11   | 5.29 | 5.38 | 6.47 | 5.51 | 16.97 | 5.58 | 5.42 | 5.51 | 5.55 | 5.60 | 4.98 | 5.10 |
| 12   | 5.28 | 5.37 | 6.11 | 5.48 | 13.71 | 5.56 | 5.40 | 5.44 | 5.69 | 5.47 | 4.98 | 5.08 |
| 13   | 5.29 | 5.35 | 5.82 | 5.47 | 10.25 | 5.55 | 5.39 | 5.37 | 5.85 | 5.39 | 4.99 | 5.07 |
| 14   | 5.27 | 5.35 | 5.71 | 5.48 | 8.00  | 5.54 | 5.39 | 5.36 | 5.59 | 5.34 | 5.00 | 5.06 |
| 15   | 5.28 | 5.38 | 5.66 | 5.48 | 7.33  | 5.51 | 5.36 | 5.33 | 5.39 | 5.29 | 5.01 | 5.11 |
| 16   | 5.28 | 5.52 | 5.62 | 5.48 | 7.20  | 5.49 | 5.33 | 5.30 | 5.33 | 5.22 | 5.01 | 5.40 |
| 17   | 5.26 | 5.56 | 5.59 | 5.46 | 7.33  | 5.47 | 5.32 | 5.29 | 5.28 | 5.22 | 5.03 | 5.23 |
| 18   | 5.36 | 5.56 | 5.57 | 5.44 | 7.08  | 5.46 | 5.31 | 5.28 | 5.26 | 5.19 | 5.06 | 5.09 |
| 19   | 6.42 | 5.61 | 5.55 | 5.44 | 6.72  | 5.42 | 5.30 | 5.26 | 5.24 | 5.15 | 5.08 | 5.05 |
| 20   | 6.62 | 5.47 | 5.52 | 5.46 | 6.48  | 5.43 | 5.28 | 5.21 | 5.20 | 5.12 | 5.07 | 5.03 |
| 21   | 5.83 | 5.44 | 5.51 | 5.49 | 6.30  | 5.43 | 5.27 | 5.20 | 5.16 | 5.10 | 5.06 | 5.02 |
| 22   | 5.56 | 5.47 | 5.51 | 5.49 | 6.18  | 5.94 | 5.26 | 5.21 | 5.14 | 5.09 | 5.03 | 5.01 |
| 23   | 5.47 | 5.98 | 5.50 | 5.45 | 6.16  | 6.40 | 5.25 | 5.17 | 5.25 | 5.09 | 5.04 | 4.99 |
| 24   | 5.43 | 6.69 | 5.55 | 5.45 | 6.06  | 6.11 | 5.35 | 5.16 | 5.26 | 5.07 | 5.03 | 4.99 |
| 25   | 5.40 | 6.10 | 5.69 | 5.45 | 5.93  | 5.72 | 5.33 | 5.28 | 5.36 | 5.06 | 5.01 | 4.99 |
| 26   | 5.39 | 6.31 | 5.68 | 5.44 | 5.84  | 5.57 | 5.28 | 7.21 | 6.10 | 5.05 | 4.99 | 4.98 |
| 27   | 5.38 | 8.07 | 5.59 | 5.43 | 5.78  | 5.52 | 5.24 | 7.19 | 5.41 | 5.15 | 4.97 | 4.99 |
| 28   | 6.99 | 8.03 | 5.54 | 5.45 | 5.73  | 5.47 | 5.22 | 5.92 | 5.21 | 5.18 | 5.01 | 4.98 |
| 29   | 6.49 | 6.47 | 5.53 | 5.44 | ---   | 5.55 | 5.24 | 5.53 | 5.14 | 5.08 | 5.11 | 4.95 |
| 30   | 5.98 | 6.05 | 5.51 | 5.42 | ---   | 7.71 | 5.24 | 5.38 | 5.12 | 5.08 | 5.02 | 4.95 |
| 31   | 5.68 | ---  | 5.50 | 5.41 | ---   | 9.86 | ---  | 5.30 | ---  | 5.05 | 5.79 | ---  |
| MEAN | 5.60 | 5.78 | 5.65 | 5.48 | 7.74  | 5.89 | 5.53 | 5.68 | 5.61 | 5.69 | 5.05 | 5.53 |
| MAX  | 6.99 | 8.07 | 6.47 | 5.73 | 16.97 | 9.86 | 7.61 | 9.60 | 7.46 | 8.32 | 5.79 | 9.06 |
| MIN  | 5.26 | 5.35 | 5.50 | 5.41 | 5.52  | 5.42 | 5.22 | 5.16 | 5.12 | 5.05 | 4.97 | 4.95 |

## MISSISSIPPI RIVER DELTA

07375050 TCHEFUNCTA RIVER NEAR COVINGTON, LA  
(National stream-quality accounting network station)

LOCATION.--Lat 30°29'40", long 90°10'10", in SW1/4 sec. 26, T.6 S., R.10 E., St. Helena Meridian, St. Tammany Parish, Hydrologic Unit 08090201, at bridge on U.S. Highway 190, and 4.0 mi (6.4 km) west of Covington.

DRAINAGE AREA.--145 mi<sup>2</sup> (376 km<sup>2</sup>).

PERIOD OF RECORD.--Water years 1959, 1966-68, 1974, 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1978 to current year.

WATER TEMPERATURES: April 1978 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 66 micromhos Feb. 24, 1979; minimum daily, 20 micromhos, Apr. 14, May 17, 18, 22, 1980.

WATER TEMPERATURES: Maximum daily, 34.0°C July 25, 1980; minimum daily, 5.0°C Jan. 24, Feb. 2, 9, 1979, Jan. 13, 1981.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 48 micromhos Feb. 5; minimum daily, 22 micromhos May 7.

WATER TEMPERATURES: Maximum daily, 30.0°C Aug. 14; minimum daily, 5.0°C Jan. 13.

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

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>CORAL<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|---------------|-----------------------------|---------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------|
| OCT<br>09... | 1230 | 57                                              | 38                                                | 6.2           | 20.0                        | 10                                          | 1.5                          | 9.5                                 | 1.7                                                            | 190                                                            | 160                                                         | 7                                      |
| JAN<br>13... | 1215 | 69                                              | 35                                                | 5.7           | 7.0                         | 15                                          | 2.8                          | 12.0                                | 1.4                                                            | K72                                                            | K10                                                         | 7                                      |
| MAR<br>10... | 1300 | 90                                              | 44                                                | 5.5           | 15.5                        | 20                                          | 4.4                          | 9.6                                 | 1.1                                                            | K45                                                            | 110                                                         | 9                                      |
| MAY<br>04... | 1000 | 62                                              | 35                                                | 5.2           | 20.0                        | 5                                           | 1.2                          | 8.8                                 | .4                                                             | K28                                                            | 120                                                         | 8                                      |
| JUL<br>07... | 1530 | 153                                             | 34                                                | 5.6           | 26.0                        | 50                                          | 21                           | 6.8                                 | 3.0                                                            | 1000                                                           | 1000                                                        | 8                                      |
| SEP<br>04... | 1200 | 199                                             | 45                                                | 5.8           | 24.5                        | 70                                          | 17                           | 7.7                                 | 3.3                                                            | 1200                                                           | 5000                                                        | 10                                     |

| DATE         | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>AS CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>FIELD<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITU-<br>ENTS,<br>DIS-<br>SOLVED<br>(MG/L) |
|--------------|-----------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|
| OCT<br>09... | 0                                                         | 1.7                                          | .7                                                   | 4.6                                          | 1.4                                                 | 9                                                 | 4.4                                           | 4.5                                                 | .0                                                 | 13                                                | 43                                                                 | 35                                                                  |
| JAN<br>13... | 0                                                         | 1.8                                          | .7                                                   | 4.1                                          | 1.1                                                 | 7                                                 | 2.8                                           | 4.3                                                 | .1                                                 | 12                                                | 36                                                                 | 31                                                                  |
| MAR<br>10... | 1                                                         | 2.1                                          | .9                                                   | 4.3                                          | 2.0                                                 | 8                                                 | 1.6                                           | 5.6                                                 | .1                                                 | 11                                                | 39                                                                 | 33                                                                  |
| MAY<br>04... | 0                                                         | 1.7                                          | 1.0                                                  | 4.2                                          | 1.2                                                 | 8                                                 | .7                                            | 7.3                                                 | .0                                                 | 12                                                | 39                                                                 | 32                                                                  |
| JUL<br>07... | 5                                                         | 1.7                                          | .8                                                   | 2.8                                          | 2.9                                                 | 3                                                 | 3.0                                           | 4.4                                                 | .0                                                 | 7.9                                               | 40                                                                 | 26                                                                  |
| SEP<br>04... | 4                                                         | 2.1                                          | 1.1                                                  | 3.4                                          | 3.9                                                 | 7                                                 | 5.6                                           | 4.6                                                 | .0                                                 | 8.7                                               | 53                                                                 | 34                                                                  |

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>SUS-<br>PENDED<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|
| OCT<br>09... | .12                                                  | .12                                                           | .03                                                  | .04                                                           | 1.5                                                                | .91                                                                         | .06                                         | .08                                                  | --                                            | 2.7                                                    | .3                                                              |
| JAN<br>13... | .11                                                  | .11                                                           | .06                                                  | .06                                                           | .47                                                                | .51                                                                         | --                                          | .07                                                  | 1.7                                           | --                                                     | --                                                              |
| MAR<br>10... | .24                                                  | .02                                                           | .02                                                  | .06                                                           | 1.1                                                                | .75                                                                         | .10                                         | .06                                                  | --                                            | 5.5                                                    | .4                                                              |
| MAY<br>04... | .31                                                  | .00                                                           | .08                                                  | .10                                                           | --                                                                 | 1.0                                                                         | .19                                         | .18                                                  | --                                            | 2.7                                                    | .1                                                              |
| JUL<br>07... | .38                                                  | .41                                                           | .08                                                  | .11                                                           | 1.3                                                                | .95                                                                         | .19                                         | .11                                                  | --                                            | 9.9                                                    | 1.4                                                             |
| SEP<br>04... | .43                                                  | .22                                                           | .17                                                  | .17                                                           | 1.4                                                                | 1.2                                                                         | .22                                         | .10                                                  | 10                                            | --                                                     | --                                                              |

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

## MISSISSIPPI RIVER DELTA

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07375050 TCHEFUNCTA RIVER NEAR COVINGTON, LA--Continued

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

| DATE         | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) |
|--------------|-------------------------------------|----------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|
| OCT<br>09... | 1                                   | 0                                            | 20                                           | 0                                                       | 2                                            | 0                                                              | 0                                                   | 0                                                       | <3                                           |
| MAR<br>10... | 0                                   | 0                                            | 30                                           | 0                                                       | <1                                           | 0                                                              | 0                                                   | 0                                                       | <3                                           |
| MAY<br>04... | 1                                   | 0                                            | 20                                           | 0                                                       | <1                                           | 0                                                              | 0                                                   | 0                                                       | <3                                           |
| JUL<br>07... | 1                                   | 1                                            | 100                                          | 1                                                       | <1                                           | 30                                                             | 0                                                   | 1                                                       | <3                                           |

| DATE         | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PR) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) |
|--------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|
| OCT<br>09... | 6                                                       | 8                                            | 390                                                   | 320                                        | 2                                                     | 4                                          | --                                                              | 10                                                   | .0                                                      |
| MAR<br>10... | 4                                                       | 7                                            | 570                                                   | 350                                        | 0                                                     | 1                                          | 40                                                              | 40                                                   | .1                                                      |
| MAY<br>04... | 4                                                       | 6                                            | 480                                                   | 330                                        | 2                                                     | 1                                          | 40                                                              | 30                                                   | .1                                                      |
| JUL<br>07... | 6                                                       | 4                                            | 1100                                                  | 290                                        | 5                                                     | 1                                          | 100                                                             | 60                                                   | .2                                                      |

| DATE         | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AG) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| OCT<br>09... | .0                                           | 3                                                       | 0                                            | 0                                                       | 0                                                   | 0                                                       | 0                                            | --                                                    | 20                                         |
| MAR<br>10... | .0                                           | 1                                                       | 0                                            | 1                                                       | 1                                                   | 0                                                       | 0                                            | 30                                                    | 10                                         |
| MAY<br>04... | .1                                           | 1                                                       | 1                                            | 0                                                       | 0                                                   | --                                                      | 0                                            | 30                                                    | 20                                         |
| JUL<br>07... | .0                                           | 3                                                       | 3                                            | 0                                                       | 0                                                   | 0                                                       | 0                                            | 40                                                    | 10                                         |

| DATE         | PHYTO-<br>PLANK-<br>TON,<br>TOTAL<br>(CELLS<br>PER ML) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDED<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDED<br>(T/DAY) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|--------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|
| OCT<br>09... | 74000                                                  | 28                                                            | 4.3                                                            | 46                                                            |
| JAN<br>13... | --                                                     | 30                                                            | 5.6                                                            | 46                                                            |
| MAR<br>10... | 67000                                                  | 19                                                            | 4.6                                                            | 54                                                            |
| MAY<br>04... | 480                                                    | 17                                                            | 2.8                                                            | 91                                                            |
| JUL<br>07... | 2600                                                   | 60                                                            | 25                                                             | 99                                                            |
| SEP<br>04... | --                                                     | 48                                                            | 26                                                             | 84                                                            |

&lt; Actual value is known to be less than the value shown.



## MISSISSIPPI RIVER DELTA

07375050 TCHEFUNCTA RIVER NEAR COVINGTON, LA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 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   | --- | 35  | 43  | 30  | 31  | 35  | 42  | 30  | 39  | --- | --- | --- |
| 2   | --- | 36  | --- | 30  | 42  | 35  | 42  | --- | 36  | --- | 35  | 43  |
| 3   | --- | 36  | --- | --- | --- | 35  | --- | 30  | 35  | --- | 31  | 44  |
| 4   | --- | --- | --- | --- | 35  | 35  | 42  | 29  | --- | 29  | 31  | 44  |
| 5   | --- | 35  | --- | 29  | 48  | 36  | --- | --- | 33  | --- | 31  | 40  |
| 6   | --- | 32  | 36  | --- | --- | --- | --- | 33  | 43  | --- | 32  | 40  |
| 7   | 31  | 31  | 37  | --- | --- | --- | 38  | 22  | 44  | --- | 31  | 41  |
| 8   | 30  | 31  | 35  | --- | --- | 43  | 37  | 30  | 44  | 39  | 32  | 35  |
| 9   | 30  | --- | 35  | --- | 41  | 45  | 35  | 34  | 37  | --- | 31  | 34  |
| 10  | 29  | 30  | 41  | --- | --- | --- | 35  | --- | 37  | --- | 31  | 35  |
| 11  | --- | 30  | 39  | --- | --- | 37  | 32  | 35  | --- | --- | 31  | 33  |
| 12  | 29  | 29  | --- | --- | --- | 36  | 34  | 33  | 40  | --- | 32  | 35  |
| 13  | --- | 29  | 36  | 30  | 25  | --- | 33  | 32  | 35  | --- | 30  | 36  |
| 14  | 28  | 29  | 46  | 30  | --- | 34  | 33  | --- | 42  | --- | 31  | 33  |
| 15  | 27  | --- | 46  | 29  | 36  | 33  | --- | 31  | --- | 36  | --- | 35  |
| 16  | --- | 30  | 44  | 29  | 38  | 33  | 32  | 31  | --- | 35  | 30  | 39  |
| 17  | --- | 29  | 43  | 29  | 38  | 32  | 32  | 31  | 38  | 32  | 31  | 34  |
| 18  | --- | 29  | 40  | 29  | 37  | --- | 31  | 30  | 36  | 34  | --- | 38  |
| 19  | --- | 26  | --- | 29  | 38  | 32  | 31  | 30  | 35  | 32  | 32  | 38  |
| 20  | 34  | 31  | 36  | --- | --- | 32  | 30  | 30  | 35  | 32  | --- | 30  |
| 21  | 28  | 31  | 35  | 29  | 39  | 31  | 30  | 30  | --- | 33  | 31  | 38  |
| 22  | 40  | --- | --- | 29  | 39  | 40  | --- | 31  | 33  | 32  | 30  | 30  |
| 23  | 36  | --- | 32  | 28  | 39  | 35  | 30  | 30  | --- | 32  | 30  | --- |
| 24  | 42  | 39  | 32  | --- | 38  | --- | 35  | --- | --- | 32  | 30  | 29  |
| 25  | --- | 32  | 31  | 29  | 37  | --- | 30  | --- | 32  | 32  | 31  | --- |
| 26  | --- | --- | 31  | 29  | 37  | --- | 30  | 29  | 36  | 32  | --- | 29  |
| 27  | 35  | 40  | --- | 29  | 36  | 40  | 30  | 31  | 46  | 33  | 31  | 30  |
| 28  | 33  | 36  | --- | 29  | --- | 37  | 30  | --- | --- | 32  | 43  | 30  |
| 29  | 33  | 46  | 31  | 37  | --- | 38  | --- | 38  | 45  | --- | 31  | 30  |
| 30  | --- | 45  | 31  | 35  | --- | --- | 32  | 44  | 46  | 31  | 36  | 32  |
| 31  | 33  | --- | 31  | 33  | --- | --- | --- | 43  | --- | 31  | 44  | --- |
| MAX | --- | 46  | 46  | --- | --- | 45  | 42  | 44  | 46  | --- | 44  | 44  |
| MIN | --- | 26  | 31  | --- | --- | 31  | 30  | 22  | 32  | --- | 30  | 29  |

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   | ---  | 13.0 | 12.0 | 7.0  | 15.0 | 17.0 | 18.0 | 20.0 | 23.0 | ---  | ---  | ---  |
| 2   | ---  | 13.0 | ---  | 8.0  | 10.0 | 16.0 | 16.0 | ---  | 22.0 | ---  | 27.0 | 26.0 |
| 3   | ---  | 13.0 | ---  | ---  | ---  | 15.0 | ---  | 19.0 | 23.0 | ---  | 25.0 | 26.0 |
| 4   | ---  | ---  | ---  | ---  | 8.0  | 17.0 | ---  | 19.0 | ---  | 23.0 | 25.0 | 23.0 |
| 5   | ---  | 14.0 | ---  | 8.0  | 8.0  | 16.0 | ---  | ---  | 23.0 | ---  | 25.0 | 24.0 |
| 6   | ---  | 14.0 | 15.0 | ---  | ---  | ---  | ---  | 19.0 | 24.0 | ---  | 25.0 | 24.0 |
| 7   | ---  | 15.0 | 15.0 | ---  | 9.0  | ---  | 17.0 | 19.0 | 24.0 | ---  | 25.0 | 25.0 |
| 8   | 17.0 | 15.0 | 15.0 | ---  | ---  | 15.0 | 17.0 | 18.0 | 24.0 | 24.0 | 25.0 | 28.0 |
| 9   | 18.0 | ---  | 17.0 | ---  | 9.0  | 12.0 | 18.0 | 19.0 | 24.0 | ---  | 25.0 | 26.0 |
| 10  | 17.0 | 16.0 | 16.0 | ---  | ---  | ---  | 19.0 | ---  | 25.0 | ---  | 25.0 | 25.0 |
| 11  | ---  | 16.0 | 13.0 | ---  | 10.0 | 13.0 | 20.0 | 18.0 | ---  | ---  | 26.0 | 24.0 |
| 12  | 16.0 | 14.0 | ---  | ---  | ---  | 14.0 | 20.0 | 18.0 | 24.0 | ---  | 26.0 | 25.0 |
| 13  | ---  | 14.0 | 11.0 | 5.0  | 9.0  | ---  | 20.0 | 18.0 | 27.0 | ---  | 27.0 | 25.0 |
| 14  | 15.0 | 10.0 | 10.0 | 7.0  | ---  | 13.0 | 20.0 | ---  | 25.0 | ---  | 30.0 | 23.0 |
| 15  | 15.0 | ---  | 10.0 | 8.0  | 9.0  | 14.0 | ---  | 19.0 | ---  | 25.0 | ---  | 23.0 |
| 16  | ---  | ---  | 11.0 | 9.0  | 11.0 | 15.0 | 20.0 | 19.0 | ---  | 25.0 | 26.0 | 22.0 |
| 17  | ---  | ---  | 13.0 | 6.0  | 13.0 | 13.0 | 21.0 | 20.0 | 25.0 | 25.0 | 26.0 | 23.0 |
| 18  | ---  | ---  | 11.0 | 6.0  | 14.0 | ---  | 20.0 | 22.0 | 25.0 | 26.0 | ---  | 22.0 |
| 19  | ---  | 8.0  | ---  | 6.0  | 14.0 | 13.0 | 21.0 | 23.0 | 25.0 | 26.0 | 27.0 | 20.0 |
| 20  | 18.0 | 10.0 | 10.0 | ---  | ---  | 12.0 | 21.0 | 20.0 | 25.0 | 25.0 | ---  | 22.0 |
| 21  | 18.0 | 10.0 | 7.0  | 8.0  | 16.0 | 13.0 | 22.0 | 18.0 | ---  | 26.0 | 26.0 | 18.0 |
| 22  | 18.0 | ---  | ---  | 8.0  | 17.0 | 15.0 | ---  | 18.0 | 26.0 | 26.0 | 24.0 | 20.0 |
| 23  | 17.0 | ---  | 11.0 | 9.0  | 13.0 | 14.0 | 22.0 | 20.0 | ---  | 25.0 | 25.0 | ---  |
| 24  | 19.0 | 13.0 | 14.0 | ---  | 13.0 | ---  | 20.0 | ---  | ---  | 26.0 | 24.0 | ---  |
| 25  | ---  | 13.0 | 9.0  | 9.0  | 14.0 | ---  | 19.0 | ---  | 23.0 | 26.0 | 24.0 | ---  |
| 26  | ---  | ---  | 8.0  | 10.0 | 14.0 | ---  | 18.0 | 23.0 | 25.0 | 26.0 | ---  | ---  |
| 27  | 17.0 | 10.0 | ---  | 11.0 | 14.0 | 15.0 | 18.0 | 22.0 | 23.0 | ---  | 24.0 | 23.0 |
| 28  | 18.0 | 9.0  | ---  | 11.0 | ---  | 16.0 | 19.0 | ---  | 22.0 | 25.0 | 25.0 | 24.0 |
| 29  | 15.0 | 7.0  | 8.0  | 10.0 | ---  | 18.0 | ---  | 22.0 | 24.0 | ---  | 24.0 | 23.0 |
| 30  | ---  | 9.0  | 8.0  | 12.0 | ---  | 18.0 | 20.0 | 23.0 | 23.0 | 25.0 | 25.0 | 23.0 |
| 31  | 14.0 | ---  | 7.0  | 11.0 | ---  | ---  | ---  | 23.0 | ---  | 25.0 | 26.0 | ---  |
| MAX | ---  | 16.0 | 17.0 | 12.0 | 17.0 | 18.0 | 22.0 | 23.0 | 27.0 | ---  | 30.0 | 28.0 |
| MIN | ---  | 7.0  | 7.0  | 5.0  | 8.0  | 12.0 | 16.0 | 18.0 | 22.0 | ---  | 24.0 | 18.0 |

07375050 TCHEFUNCTA RIVER NEAR COVINGTON, LA--Continued

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO JULY 1981

| DATE<br>TIME                  | OCT 9,80<br>1230 | MAR 10,81<br>1300 | MAY 4,81<br>1000 | JUL 7,81<br>1530 |              |              |              |              |
|-------------------------------|------------------|-------------------|------------------|------------------|--------------|--------------|--------------|--------------|
| TOTAL CELLS/ML                | 74000            | 67000             | 480              | 2600             |              |              |              |              |
| DIVERSITY: DIVISION           | 0.0              | 0.4               | 1.2              | 0.4              |              |              |              |              |
| ..CLASS                       | 0.0              | 0.4               | 1.2              | 0.4              |              |              |              |              |
| ...ORDER                      | 0.0              | 0.8               | 1.4              | 0.4              |              |              |              |              |
| ...FAMILY                     | 0.1              | 0.8               | 1.5              | 1.0              |              |              |              |              |
| ...GENUS                      | 0.1              | 0.8               | 1.5              | 1.0              |              |              |              |              |
| ORGANISM                      | CELLS<br>/ML     | PER-<br>CENT      | CELLS<br>/ML     | PER-<br>CENT     | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT |
| CHLOROPHYTA (GREEN ALGAE)     |                  |                   |                  |                  |              |              |              |              |
| ..CHLOROPHYCEAE               |                  |                   |                  |                  |              |              |              |              |
| ...CHLOROCOCCALES             |                  |                   |                  |                  |              |              |              |              |
| ...OOCYSTACEAE                |                  |                   |                  |                  |              |              |              |              |
| ....ANKISTRODES MUS           | --               | -                 | * 0              |                  | --           | -            | --           | -            |
| ....SELENASTRUM               | --               | -                 | * 0              |                  | --           | -            | --           | -            |
| ...SCENFDESMAEAE              |                  |                   |                  |                  |              |              |              |              |
| ....SCENFDES MUS              | *                | 0                 | * 0              |                  | 51           | 11           | 52           | 2            |
| ...VOLVOCALES                 |                  |                   |                  |                  |              |              |              |              |
| ...CHLAMYDOMONADACEAE         |                  |                   |                  |                  |              |              |              |              |
| ....CHLAMYDOMONAS             | --               | -                 | * 0              |                  | 13           | 3            | 13           | 1            |
| ...ZYGNEMATALES               |                  |                   |                  |                  |              |              |              |              |
| ...DESMIDIACEAE               |                  |                   |                  |                  |              |              |              |              |
| ....COSMARIUM                 | --               | -                 | --               | -                | 13           | 3            | --           | -            |
| ....STAUSTRUM                 | --               | -                 | 3000             | 4                | --           | -            | --           | -            |
| CHRYSTOPHYTA                  |                  |                   |                  |                  |              |              |              |              |
| ..BACILLARIOPHYCEAE           |                  |                   |                  |                  |              |              |              |              |
| ...CENTRALES                  |                  |                   |                  |                  |              |              |              |              |
| ...COSCINODISCACEAE           |                  |                   |                  |                  |              |              |              |              |
| ....CYCLOTELLA                | *                | 0                 | --               | -                | --           | -            | --           | -            |
| ....MELOSIRA                  | --               | -                 | 390              | 1                | --           | -            | --           | -            |
| ...PENNALES                   |                  |                   |                  |                  |              |              |              |              |
| ...FRAGILARIACEAE             |                  |                   |                  |                  |              |              |              |              |
| ....FRAGILARIA                | --               | -                 | --               | -                | --           | -            | 52           | 2            |
| ...NAVICULACEAE               |                  |                   |                  |                  |              |              |              |              |
| ....NAVICULA                  | *                | 0                 | --               | -                | 26           | 5            | 26           | 1            |
| ...NITZSCHIAEAE               |                  |                   |                  |                  |              |              |              |              |
| ....NITZSCHIA                 | --               | -                 | * 0              |                  | 13           | 3            | 13           | 1            |
| CRYPTOPHYTA (CRYPTOMONADS)    |                  |                   |                  |                  |              |              |              |              |
| ..CRYPTOPHYCEAE               |                  |                   |                  |                  |              |              |              |              |
| ...CRYPTOMONADALES            |                  |                   |                  |                  |              |              |              |              |
| ...CRYPTOMONADACEAE           |                  |                   |                  |                  |              |              |              |              |
| ....CRYPTOMONAS               | --               | -                 | * 0              |                  | --           | -            | --           | -            |
| CYANOPHYTA (BLUE-GREEN ALGAE) |                  |                   |                  |                  |              |              |              |              |
| ..CYANOPHYCEAE                |                  |                   |                  |                  |              |              |              |              |
| ...CHROOCOCCALFS              |                  |                   |                  |                  |              |              |              |              |
| ...CHROOCOCCACEAE             |                  |                   |                  |                  |              |              |              |              |
| ....ANACYSTIS                 | --               | -                 | 4000             | 6                | 350#         | 73           | --           | -            |
| ...HORMOGONALES               |                  |                   |                  |                  |              |              |              |              |
| ...NOSTOCACEAE                |                  |                   |                  |                  |              |              |              |              |
| ....ANARAENOPSIS              | *                | 0                 | --               | -                | --           | -            | --           | -            |
| ....APHANIZOMENON             | --               | -                 | --               | -                | --           | -            | 330          | 13           |
| ...OSCILLATORIAEAE            |                  |                   |                  |                  |              |              |              |              |
| ....LYNGRYA                   | 73000#           | 99                | 59000#           | 87               | --           | -            | 2100#        | 81           |
| EUGLENOPHYTA (EUGLENOIDS)     |                  |                   |                  |                  |              |              |              |              |
| ..EUGLENOPHYCEAE              |                  |                   |                  |                  |              |              |              |              |
| ...EUGLENALES                 |                  |                   |                  |                  |              |              |              |              |
| ...EUGLENACEAF                |                  |                   |                  |                  |              |              |              |              |
| ....EUGLENA                   | --               | -                 | --               | -                | 13           | 3            | --           | -            |

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

\* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

## MISSISSIPPI RIVER DELTA

302150090102000 LAKE PONTCHARTRAIN AT MOUTH OF TCHEFUNCTA RIVER, NEAR MADISONVILLE, LA (CE 85614)

LOCATION.--Lat 30°21'50", long 90°10'20", T.8 S., R.10 E., St. Tammany Parish, Hydrologic Unit 08090202, 3.2 mi (5.1 km) south of Madisonville.

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.

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

| DATE      | TIME | SPECIFIC CONDUCTANCE (MICRO-MHOS) | PH FIELD (UNITS) | COLOR (PLATINUM COHAULT UNITS) | TURBIDITY (NTU) | SETTLABLE MATTER (ML/L/HR) | OXYGEN, DIS-SOLVED (MG/L) | OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) | OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L) | CULIFORM, TOTAL, IMMEDIATE (COLS./100 ML) | CULIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) | HARDNESS (MG/L AS CaCO3) |
|-----------|------|-----------------------------------|------------------|--------------------------------|-----------------|----------------------------|---------------------------|---------------------------------------------|---------------------------------------------|-------------------------------------------|-------------------------------------------|--------------------------|
| OCT 27... | 1000 | 3710                              | 7.2              | 5                              | 9.0             | <1.0                       | 9.2                       | 27                                          | 1.1                                         | K120                                      | K60                                       | 380                      |
| NOV 19... | 1015 | 6030                              | 7.3              | 5                              | 1.0             | <1.0                       | 9.7                       | 44                                          | .5                                          | <5                                        | <5                                        | 660                      |
| DEC 09... | 1029 | 8020                              | 7.4              | 0                              | 1.0             | <1.0                       | 9.8                       | 94                                          | .8                                          | 80                                        | 58                                        | 860                      |
| JAN 19... | 0950 | 7320                              | 7.6              | 0                              | 2.0             | <1.0                       | 11.6                      | 35                                          | .8                                          | <4                                        | K4                                        | 760                      |

| DATE      | HARDNESS, NONCARBONATE (MG/L AS CaCO3) | CALCIUM DIS-SOLVED (MG/L AS Ca) | MAGNESIUM, DIS-SOLVED (MG/L AS Mg) | SODIUM, DIS-SOLVED (MG/L AS Na) | POTASSIUM, DIS-SOLVED (MG/L AS K) | ALKALINITY (MG/L AS CaCO3) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLORIDE, DIS-SOLVED (MG/L AS Cl) | SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) | NITROGEN, NITRATE TOTAL (MG/L AS N) | NITROGEN, NITRITE TOTAL (MG/L AS N) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) |
|-----------|----------------------------------------|---------------------------------|------------------------------------|---------------------------------|-----------------------------------|----------------------------|----------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| OCT 27... | 350                                    | 31                              | 73                                 | 590                             | 26                                | 29                         | 160                              | 1100                              | 6                                               | .07                                 | .00                                 | .07                                 |
| NOV 19... | 620                                    | 50                              | 130                                | 1000                            | 44                                | 36                         | 200                              | 1900                              | 0                                               | .00                                 | .01                                 | .01                                 |
| DEC 09... | 820                                    | 65                              | 170                                | 1300                            | 69                                | 41                         | 350                              | 2500                              | 4                                               | .00                                 | .00                                 | .00                                 |
| JAN 19... | 720                                    | 56                              | 150                                | 1200                            | 59                                | 39                         | 330                              | 2300                              | 3                                               | .00                                 | .00                                 | .00                                 |

| DATE      | NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC TOTAL (UG/L AS AS) | ARSENIC DIS-SOLVED (UG/L AS AS) | BERYLLIUM, TOTAL (UG/L AS RE) | BERYLLIUM, DIS-SOLVED (UG/L AS BE) | CADMIUM TOTAL (UG/L AS CD) | CADMIUM DIS-SOLVED (UG/L AS CD) | CHROMIUM, TOTAL (UG/L AS CR) | CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR) | COPPER, TOTAL (UG/L AS CU) | COPPER, DIS-SOLVED (UG/L AS CU) |
|-----------|----------------------------------------------|-------------------------------|----------------------------|---------------------------------|-------------------------------|------------------------------------|----------------------------|---------------------------------|------------------------------|-----------------------------------------|----------------------------|---------------------------------|
| OCT 27... | .62                                          | .08                           | 1                          | 0                               | 0                             | 0                                  | 0                          | 0                               | 0                            | 0                                       | 3                          | 2                               |
| NOV 19... | .62                                          | .03                           | 0                          | 0                               | 0                             | 0                                  | 2                          | 0                               | 10                           | 0                                       | 2                          | 2                               |
| DEC 09... | .69                                          | .04                           | 0                          | 1                               | --                            | 10                                 | 0                          | 0                               | 20                           | 0                                       | 5                          | 0                               |
| JAN 19... | 1.1                                          | .01                           | 0                          | 0                               | 0                             | 0                                  | 0                          | 0                               | 20                           | 0                                       | 5                          | 1                               |

&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).

302150090102000 LAKE PONTCHARTRAIN AT MOUTH OF TCHEFUNCTA RIVER, NEAR MADISONVILLE, LA (CE 85614)--Continued

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

| DATE         | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FF) | LEAD,<br>TOTAL<br>(UG/L<br>AS PR) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PR) | MERCURY<br>TOTAL<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | ZINC,<br>TOTAL<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|--------------------------------------------|-----------------------------------|--------------------------------------------|-------------------------------------|----------------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------------------|-----------------------------------|--------------------------------------------|-----------------------------------------------|
| OCT<br>27... | 30                                         | 0                                 | 2                                          | .0                                  | .0                                           | 7                                   | 3                                            | 0                                          | 0                                                   | 10                                | 10                                         | --                                            |
| NOV<br>19... | 20                                         | 4                                 | 2                                          | .0                                  | .0                                           | 2                                   | 3                                            | 0                                          | 0                                                   | 20                                | 10                                         | 4.6                                           |
| DEC<br>09... | 50                                         | 2                                 | 0                                          | .0                                  | .0                                           | 4                                   | 0                                            | 0                                          | 0                                                   | 20                                | 20                                         | 5.7                                           |
| JAN<br>19... | 50                                         | 5                                 | 1                                          | .0                                  | .0                                           | 4                                   | 1                                            | 0                                          | 0                                                   | 20                                | 20                                         | 4.8                                           |

| DATE         | CYANIDE<br>TOTAL<br>(MG/L<br>AS CN) | PHENOLS<br>(UG/L) | OIL AND<br>GREASE,<br>TOTAL<br>RECOV.<br>GRAVI-<br>METRIC<br>(MG/L) | PCR<br>TOTAL<br>(UG/L) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L) | ALDRIN,<br>TOTAL<br>(UG/L) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L) | DDD,<br>TOTAL<br>(UG/L) | DDE,<br>TOTAL<br>(UG/L) | DDT,<br>TOTAL<br>(UG/L) | DI-<br>AZINON,<br>TOTAL<br>(UG/L) |
|--------------|-------------------------------------|-------------------|---------------------------------------------------------------------|------------------------|---------------------------------------------------------------|----------------------------|------------------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|
| OCT<br>27... | .00                                 | 4                 | 0                                                                   | .0                     | .0                                                            | .000                       | .0                                 | .000                    | .000                    | .000                    | .01                               |
| NOV<br>19... | .00                                 | 1                 | 0                                                                   | .0                     | .0                                                            | .000                       | .0                                 | .000                    | .000                    | .000                    | .00                               |
| DEC<br>09... | .00                                 | 3                 | 0                                                                   | <.1                    | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .01                               |
| JAN<br>19... | .00                                 | 1                 | 0                                                                   | <.1                    | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .01                               |

| DATE         | DI-<br>FLORIN<br>TOTAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) | ENDRIN,<br>TOTAL<br>(UG/L) | ETHION,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>EPOXIDE<br>TOTAL<br>(UG/L) | LINDANE<br>TOTAL<br>(UG/L) | MALA-<br>THION,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L) | METHYL<br>THI-<br>THION,<br>TOTAL<br>(UG/L) |
|--------------|----------------------------------|-------------------------------------|----------------------------|----------------------------|-------------------------------------|--------------------------------------|----------------------------|------------------------------------|--------------------------------------------|----------------------------------------------|---------------------------------------------|
| OCT<br>27... | .000                             | .000                                | .000                       | .00                        | .000                                | .000                                 | .000                       | .00                                | .00                                        | .00                                          | .00                                         |
| NOV<br>19... | .000                             | .000                                | .000                       | .00                        | .000                                | .000                                 | .000                       | .00                                | .00                                        | .00                                          | .00                                         |
| DEC<br>09... | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        |
| JAN<br>19... | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        |

| DATE         | MIREX,<br>TOTAL<br>(UG/L) | PARA-<br>THION,<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>TOTAL<br>(UG/L) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOTAL<br>TRI-<br>THION<br>(UG/L) | 2,4-D,<br>TOTAL<br>(UG/L) | 2, 4-DP<br>TOTAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) | CHLOR-A<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) | CHLOR-B<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) |
|--------------|---------------------------|------------------------------------|----------------------------------|------------------------------------|----------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| OCT<br>27... | .00                       | .00                                | .00                              | .0                                 | .00                              | .01                       | .00                        | .00                        | .00                        | 5.83                                                              | .000                                                              |
| NOV<br>19... | .00                       | .00                                | .00                              | .0                                 | .00                              | .10                       | .00                        | .00                        | .00                        | .230                                                              | .000                                                              |
| DEC<br>09... | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .02                       | .00                        | .00                        | .00                        | .270                                                              | .000                                                              |
| JAN<br>19... | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .02                       | .00                        | .00                        | .00                        | 1.35                                                              | .000                                                              |

&lt; Actual value is known to be less than the value shown.

## MISSISSIPPI RIVER DELTA

07375500 TANGIPAHOA RIVER AT ROBERT, LA  
(National stream-quality accounting network station)

LOCATION.--Lat 30°30'23", long 90°21'42", on line between lots 39 and 40, T. 6 S., R. 8 E., St. Helena meridian, Tangipahoa Parish, Hydrologic Unit 08070205, near left bank on downstream side of bridge on U.S. Highway 190, 1.2 mi (1.9 km) west of Robert, 2.8 mi (4.5 km) downstream from Chapepeela Creek, and 6.0 mi (9.7 km) east of Hammond.

## WATER-DISCHARGE RECORDS

DRAINAGE AREA.--646 mi<sup>2</sup> (1,673 km<sup>2</sup>).

PERIOD OF RECORD.--October 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6.87 ft (2.094 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 25, 1939, nonrecording gage at same site and datum.

REMARKS.--Records good. Records of dissolved oxygen and water temperatures for water year 1981 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--43 years, 1,134 ft<sup>3</sup>/s (32.11 m<sup>3</sup>/s), 23.84 in/yr (606 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,500 ft<sup>3</sup>/s (1,430 m<sup>3</sup>/s) May 3, 1953, gage height, 23.13 ft (7.050 m); minimum discharge, 245 ft<sup>3</sup>/s (6.94 m<sup>3</sup>/s) Oct. 30 to Nov. 3, 1968; minimum gage height, 2.95 ft (0.899 m) Oct. 25, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1921 reached a stage of 27.1 ft (8.26 m), from floodmark.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,000 ft<sup>3</sup>/s or 140 m<sup>3</sup>/s (revised) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|
| Feb. 11 | 1145 | *10800 306                                            | *16.71 5.093            |

Minimum discharge, 430 ft<sup>3</sup>/s (12.2 m<sup>3</sup>/s) Sept. 29, gage height, 5.31 ft (1.618 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 769   | 786   | 857   | 580   | 589   | 695   | 2100  | 582   | 598   | 507   | 504   | 507   |
| 2     | 676   | 688   | 771   | 580   | 772   | 682   | 1440  | 559   | 674   | 634   | 576   | 561   |
| 3     | 581   | 643   | 717   | 580   | 933   | 668   | 1390  | 546   | 668   | 1930  | 543   | 587   |
| 4     | 540   | 618   | 678   | 580   | 744   | 670   | 1390  | 542   | 664   | 3550  | 528   | 635   |
| 5     | 524   | 601   | 657   | 590   | 692   | 825   | 1070  | 657   | 728   | 3090  | 499   | 667   |
| 6     | 515   | 589   | 642   | 620   | 2900  | 1680  | 898   | 896   | 881   | 2330  | 482   | 546   |
| 7     | 512   | 581   | 631   | 590   | 3120  | 1480  | 806   | 687   | 966   | 1980  | 479   | 499   |
| 8     | 510   | 575   | 620   | 580   | 1980  | 1120  | 739   | 605   | 830   | 1510  | 484   | 479   |
| 9     | 512   | 571   | 620   | 580   | 1340  | 900   | 700   | 572   | 651   | 1280  | 479   | 464   |
| 10    | 511   | 568   | 862   | 575   | 4430  | 781   | 675   | 568   | 586   | 1050  | 470   | 455   |
| 11    | 511   | 565   | 1920  | 575   | 10200 | 717   | 657   | 562   | 605   | 868   | 465   | 449   |
| 12    | 511   | 562   | 1960  | 575   | 6840  | 685   | 640   | 559   | 870   | 786   | 461   | 445   |
| 13    | 511   | 558   | 1400  | 575   | 3060  | 665   | 624   | 545   | 793   | 710   | 462   | 444   |
| 14    | 509   | 558   | 1010  | 575   | 1800  | 644   | 612   | 542   | 645   | 651   | 466   | 452   |
| 15    | 511   | 563   | 855   | 573   | 1390  | 629   | 601   | 537   | 575   | 615   | 469   | 475   |
| 16    | 513   | 590   | 772   | 573   | 1290  | 606   | 590   | 534   | 544   | 588   | 462   | 679   |
| 17    | 517   | 619   | 718   | 569   | 1500  | 607   | 585   | 536   | 526   | 570   | 462   | 873   |
| 18    | 548   | 667   | 685   | 569   | 1490  | 598   | 577   | 536   | 516   | 556   | 474   | 573   |
| 19    | 784   | 646   | 660   | 568   | 1270  | 591   | 571   | 533   | 509   | 545   | 495   | 507   |
| 20    | 840   | 604   | 642   | 571   | 1130  | 582   | 565   | 525   | 505   | 535   | 485   | 478   |
| 21    | 708   | 586   | 628   | 589   | 1030  | 581   | 561   | 519   | 504   | 527   | 459   | 464   |
| 22    | 629   | 592   | 622   | 609   | 957   | 671   | 559   | 514   | 498   | 520   | 455   | 455   |
| 23    | 603   | 747   | 611   | 591   | 901   | 1130  | 559   | 512   | 587   | 515   | 447   | 449   |
| 24    | 599   | 1020  | 619   | 580   | 851   | 984   | 584   | 508   | 975   | 509   | 445   | 445   |
| 25    | 586   | 965   | 627   | 573   | 801   | 823   | 567   | 638   | 769   | 501   | 442   | 442   |
| 26    | 582   | 1180  | 635   | 568   | 764   | 719   | 561   | 2670  | 606   | 498   | 440   | 440   |
| 27    | 582   | 2150  | 619   | 572   | 737   | 659   | 551   | 1760  | 595   | 509   | 436   | 437   |
| 28    | 911   | 1990  | 603   | 571   | 711   | 624   | 547   | 872   | 555   | 530   | 436   | 436   |
| 29    | 1320  | 1340  | 598   | 561   | ---   | 621   | 544   | 643   | 531   | 522   | 449   | 434   |
| 30    | 1860  | 1020  | 594   | 558   | ---   | 1300  | 543   | 581   | 517   | 515   | 498   | 433   |
| 31    | 1040  | ---   | 588   | 553   | ---   | 2560  | ---   | 553   | ---   | 507   | 523   | ---   |
| TOTAL | 20825 | 23742 | 24421 | 17903 | 54222 | 26497 | 22806 | 21393 | 19471 | 29938 | 14775 | 15210 |
| MEAN  | 672   | 791   | 788   | 578   | 1937  | 855   | 760   | 690   | 649   | 966   | 477   | 507   |
| MAX   | 1860  | 2150  | 1960  | 620   | 10200 | 2560  | 2100  | 2670  | 975   | 3550  | 576   | 873   |
| MIN   | 509   | 558   | 588   | 553   | 589   | 581   | 543   | 508   | 498   | 498   | 436   | 433   |
| CFSM  | 1.04  | 1.22  | 1.22  | .90   | 3.00  | 1.32  | 1.18  | 1.07  | 1.01  | 1.50  | .74   | .79   |
| IN.   | 1.20  | 1.37  | 1.41  | 1.03  | 3.12  | 1.53  | 1.31  | 1.23  | 1.12  | 1.72  | .85   | .88   |

|             |       |        |      |      |     |       |     |     |      |      |    |       |
|-------------|-------|--------|------|------|-----|-------|-----|-----|------|------|----|-------|
| CAL YR 1980 | TOTAL | 650560 | MEAN | 1777 | MAX | 32700 | MIN | 491 | CFSM | 2.75 | IN | 37.46 |
| WTR YR 1981 | TOTAL | 291203 | MEAN | 798  | MAX | 10200 | MIN | 433 | CFSM | 1.24 | IN | 16.77 |

## MISSISSIPPI RIVER DELTA

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07375500 TANGIPAHOA RIVER AT ROBERT, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT  | NOV   | DEC  | JAN  | FEB   | MAR   | APR   | MAY   | JUN  | JUL   | AUG  | SEP  |
|------|------|-------|------|------|-------|-------|-------|-------|------|-------|------|------|
| 1    | 6.99 | 6.82  | 7.02 | ---  | 6.16  | 6.55  | 10.14 | 5.94  | 6.03 | 5.61  | 5.63 | 5.77 |
| 2    | 6.68 | 6.53  | 6.77 | ---  | 6.78  | 6.51  | 8.50  | 5.84  | 6.34 | 6.09  | 5.99 | 6.05 |
| 3    | 6.33 | 6.38  | 6.62 | ---  | 7.24  | 6.46  | 8.39  | 5.77  | 6.32 | 9.72  | 5.84 | 6.17 |
| 4    | 6.19 | 6.29  | 6.49 | ---  | 6.70  | 6.47  | 8.38  | 5.74  | 6.31 | 12.68 | 5.78 | 6.35 |
| 5    | 6.11 | 6.22  | 6.42 | ---  | 6.53  | 6.92  | 7.46  | 6.18  | 6.52 | 11.98 | 5.62 | 6.45 |
| 6    | 6.06 | 6.18  | 6.37 | ---  | 11.54 | 9.24  | 6.97  | 6.91  | 6.96 | 10.70 | 5.53 | 5.98 |
| 7    | 6.04 | 6.14  | 6.34 | ---  | 12.15 | 8.73  | 6.71  | 6.30  | 7.20 | 9.94  | 5.51 | 5.73 |
| 8    | 6.02 | 6.12  | 6.30 | ---  | 10.29 | 7.77  | 6.51  | 6.03  | 6.81 | 8.68  | 5.55 | 5.61 |
| 9    | 6.01 | 6.10  | 6.30 | ---  | 8.37  | 7.14  | 6.40  | 5.90  | 6.28 | 8.04  | 5.52 | 5.53 |
| 10   | 5.99 | 6.09  | 7.03 | ---  | 12.57 | 6.80  | 6.31  | 5.88  | 6.04 | 7.38  | 5.48 | 5.47 |
| 11   | 5.98 | 6.08  | 9.60 | ---  | 16.48 | 6.62  | 6.24  | 5.85  | 6.12 | 6.85  | 5.45 | 5.43 |
| 12   | 5.97 | 6.06  | 9.91 | ---  | 15.12 | 6.52  | 6.19  | 5.85  | 6.94 | 6.61  | 5.44 | 5.41 |
| 13   | 5.95 | 6.04  | 8.52 | ---  | 11.75 | 6.45  | 6.13  | 5.77  | 6.73 | 6.38  | 5.45 | 5.40 |
| 14   | 5.94 | 6.04  | 7.45 | ---  | 9.40  | 6.38  | 6.09  | 5.76  | 6.27 | 6.18  | 5.47 | 5.45 |
| 15   | 5.92 | 6.06  | 7.01 | 6.11 | 8.51  | 6.33  | 6.05  | 5.75  | 6.01 | 6.05  | 5.50 | 5.59 |
| 16   | 5.92 | 6.18  | 6.78 | 6.11 | 8.24  | 6.24  | 6.00  | 5.73  | 5.87 | 5.96  | 5.46 | 6.43 |
| 17   | 5.92 | 6.29  | 6.62 | 6.09 | 8.78  | 6.25  | 5.97  | 5.74  | 5.77 | 5.89  | 5.47 | 7.07 |
| 18   | 6.02 | 6.46  | 6.52 | 6.09 | 8.74  | 6.21  | 5.94  | 5.74  | 5.72 | 5.83  | 5.54 | 6.10 |
| 19   | 6.80 | 6.39  | 6.43 | 6.09 | 8.19  | 6.19  | 5.91  | 5.73  | 5.67 | 5.78  | 5.66 | 5.77 |
| 20   | 6.97 | 6.24  | 6.37 | 6.10 | 7.79  | 6.15  | 5.89  | 5.69  | 5.65 | 5.73  | 5.61 | 5.61 |
| 21   | 6.52 | 6.16  | 6.33 | 6.17 | 7.50  | 6.15  | 5.86  | 5.66  | 5.64 | 5.69  | 5.48 | 5.53 |
| 22   | 6.24 | 6.19  | 6.31 | 6.26 | 7.31  | 6.46  | 5.84  | 5.64  | 5.60 | 5.66  | 5.45 | 5.47 |
| 23   | 6.14 | 6.70  | 6.26 | 6.19 | 7.15  | 7.81  | 5.85  | 5.63  | 5.93 | 5.63  | 5.41 | 5.43 |
| 24   | 6.11 | 7.47  | 6.29 | 6.14 | 7.00  | 7.38  | 5.95  | 5.61  | 7.23 | 5.61  | 5.40 | 5.41 |
| 25   | 6.06 | 7.33  | 6.32 | 6.11 | 6.86  | 6.92  | 5.88  | 6.04  | 6.63 | 5.57  | 5.39 | 5.39 |
| 26   | 6.03 | 7.92  | 6.35 | 6.09 | 6.75  | 6.62  | 5.86  | 11.19 | 6.10 | 5.56  | 5.37 | 5.37 |
| 27   | 6.02 | 10.63 | 6.30 | 6.10 | 6.68  | 6.43  | 5.81  | 9.12  | 6.06 | 5.63  | 5.35 | 5.36 |
| 28   | 7.10 | 10.32 | 6.23 | 6.10 | 6.60  | 6.31  | 5.78  | 6.90  | 5.88 | 5.74  | 5.35 | 5.35 |
| 29   | 8.24 | 8.37  | 6.21 | 6.05 | ---   | 6.30  | 5.76  | 6.23  | 5.75 | 5.72  | 5.43 | 5.34 |
| 30   | 9.61 | 7.47  | 6.19 | 6.04 | ---   | 8.19  | 5.75  | 5.99  | 5.67 | 5.67  | 5.72 | 5.33 |
| 31   | 7.52 | ---   | 6.17 | 6.02 | ---   | 11.20 | ---   | 5.86  | ---  | 5.64  | 5.86 | ---  |
| MEAN | 6.43 | 6.78  | 6.77 | ---  | 8.83  | 6.96  | 6.48  | 6.19  | 6.20 | 6.91  | 5.54 | 5.71 |
| MAX  | 9.61 | 10.63 | 9.91 | ---  | 16.48 | 11.20 | 10.14 | 11.19 | 7.23 | 12.68 | 5.99 | 7.07 |
| MIN  | 5.92 | 6.04  | 6.17 | 6.02 | 6.16  | 6.15  | 5.75  | 5.61  | 5.60 | 5.56  | 5.35 | 5.33 |



## MISSISSIPPI RIVER DELTA

07375500 TANGIPAHOA RIVER AT ROBERT, LA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1954-56, 1966-76, 1979 to current year.

## PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1979 to current year.

WATER TEMPERATURES: November 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1979.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 70 micromhos Mar. 7, 8, 1981; minimum, 30 micromhos Feb. 10, 1981.

WATER TEMPERATURES: Maximum, 33.0°C July 22, 24, 1981; minimum, 5.5°C Jan. 13, 1981.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 70 micromhos Mar. 7, 8; minimum, 30 micromhos Feb. 10.

WATER TEMPERATURES: Maximum, 33.0°C July 22, 24; minimum, 5.5°C Jan. 13.

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

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN<br>DEMAND,<br>RIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|---------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------|
| OCT<br>09... | 1330 | 650                                             | 53                                                | 6.1           | 21.5                        | 5                                            | 1.0                          | 9.3                                 | 1.0                                                            | 12                                                             | 200                                                                | 10                                     |
| JAN<br>13... | 1315 | --                                              | 45                                                | 6.2           | 7.5                         | 5                                            | 1.1                          | 12.0                                | 1.9                                                            | K8                                                             | <5                                                                 | 10                                     |
| MAR<br>10... | 1400 | 776                                             | 58                                                | 5.9           | 17.0                        | 20                                           | 7.4                          | 9.5                                 | 1.4                                                            | K95                                                            | 120                                                                | 12                                     |
| MAY<br>08... | 1315 | 600                                             | 49                                                | 6.3           | 22.0                        | 10                                           | 3.5                          | 8.3                                 | .9                                                             | 400                                                            | 4600                                                               | 9                                      |
| JUL<br>06... | 1345 | 2280                                            | 44                                                | 5.5           | 25.0                        | 30                                           | 40                           | 6.6                                 | 3.7                                                            | 7000                                                           | 11000                                                              | 9                                      |
| SEP<br>02... | 1300 | 560                                             | 56                                                | 6.6           | 27.5                        | 15                                           | 8.0                          | 7.6                                 | .1                                                             | 160                                                            | 1000                                                               | 10                                     |

| DATE         | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>AS CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>FIELD<br>(MG/L<br>AS<br>CACO3) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) |
|--------------|-----------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|
| OCT<br>09... | 0                                                         | 2.6                                          | .9                                                   | 4.8                                          | 1.4                                                 | 11                                                | 2.4                                           | 6.0                                                 | .1                                                 | 13                                                | 41                                                                 | 38                                                             |
| JAN<br>13... | 0                                                         | 2.4                                          | 1.0                                                  | 5.2                                          | 1.2                                                 | 12                                                | 2.1                                           | 6.2                                                 | .1                                                 | 11                                                | 38                                                                 | 36                                                             |
| MAR<br>10... | 3                                                         | 3.0                                          | 1.1                                                  | 6.3                                          | 1.9                                                 | 9                                                 | 2.2                                           | 7.7                                                 | .1                                                 | 11                                                | 45                                                                 | 39                                                             |
| MAY<br>08... | 0                                                         | 2.0                                          | .9                                                   | 4.9                                          | 1.6                                                 | 12                                                | 1.1                                           | 5.4                                                 | .0                                                 | 12                                                | 43                                                                 | 35                                                             |
| JUL<br>06... | 2                                                         | 2.1                                          | .9                                                   | 4.4                                          | 2.7                                                 | 7                                                 | 3.0                                           | 6.2                                                 | .0                                                 | 8.1                                               | 44                                                                 | 32                                                             |
| SEP<br>02... | 0                                                         | 2.4                                          | .9                                                   | 4.6                                          | 1.7                                                 | 11                                                | 1.0                                           | 5.8                                                 | .0                                                 | 13                                                | 42                                                                 | 37                                                             |

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>SUS-<br>PENDED<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|
| OCT<br>09... | .11                                                  | .10                                                           | .03                                                  | .03                                                           | 1.2                                                                | .59                                                                         | .06                                         | .06                                                  | --                                            | 2.4                                                    | .8                                                              |
| JAN<br>13... | .21                                                  | .24                                                           | .08                                                  | .09                                                           | 2.1                                                                | .52                                                                         | .05                                         | .02                                                  | 1.3                                           | --                                                     | --                                                              |
| MAR<br>10... | .30                                                  | .33                                                           | .05                                                  | .05                                                           | .68                                                                | .62                                                                         | .09                                         | .05                                                  | --                                            | 4.4                                                    | .6                                                              |
| MAY<br>08... | .36                                                  | .00                                                           | .09                                                  | .10                                                           | .64                                                                | .52                                                                         | .18                                         | .19                                                  | --                                            | 3.2                                                    | .2                                                              |
| JUL<br>06... | .47                                                  | .47                                                           | .18                                                  | .23                                                           | 1.3                                                                | 1.0                                                                         | .19                                         | .11                                                  | --                                            | 6.8                                                    | 1.4                                                             |
| SEP<br>02... | .37                                                  | .38                                                           | .06                                                  | .06                                                           | .62                                                                | .55                                                                         | .11                                         | .07                                                  | 2.2                                           | --                                                     | --                                                              |

&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).

07375500 TANGIPAHOA RIVER AT ROBERT, LA--Continued

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

| DATE         | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BA) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) |
|--------------|-------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|
| OCT<br>09... | 1                                   | 0                                            | 200                                                     | 30                                           | 0                                                       | 2                                            | 0                                                              | 0                                                   | 1                                                       | <3                                           |
| MAR<br>10... | 0                                   | 0                                            | 100                                                     | 40                                           | 0                                                       | <1                                           | 0                                                              | 0                                                   | 0                                                       | <3                                           |
| MAY<br>08... | 1                                   | 1                                            | 100                                                     | 30                                           | 0                                                       | 4                                            | 0                                                              | 0                                                   | 0                                                       | 4                                            |
| JUL<br>06... | 2                                   | 0                                            | --                                                      | 70                                           | 0                                                       | <1                                           | 10                                                             | 0                                                   | 0                                                       | <1                                           |

| DATE         | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) |
|--------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|
| OCT<br>09... | 5                                                       | 4                                            | 550                                                   | 310                                        | 2                                                     | 4                                          | --                                                              | 80                                                   | .0                                                      |
| MAR<br>10... | --                                                      | 10                                           | 720                                                   | 310                                        | 0                                                     | 4                                          | 120                                                             | 100                                                  | .1                                                      |
| MAY<br>08... | 3                                                       | 2                                            | 780                                                   | 410                                        | 0                                                     | 3                                          | 90                                                              | 70                                                   | .1                                                      |
| JUL<br>06... | 4                                                       | 4                                            | 1000                                                  | 230                                        | 5                                                     | 2                                          | 110                                                             | 40                                                   | .3                                                      |

| DATE         | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AG) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| OCT<br>09... | .1                                           | 0                                                       | 0                                            | 0                                          | 0                                                   | 2                                                       | 1                                            | 10                                                    | 10                                         |
| MAR<br>10... | .0                                           | 1                                                       | 1                                            | 5                                          | 5                                                   | 0                                                       | 0                                            | 20                                                    | 20                                         |
| MAY<br>08... | .0                                           | 0                                                       | 0                                            | 0                                          | 0                                                   | 0                                                       | 0                                            | --                                                    | 10                                         |
| JUL<br>06... | .1                                           | 1                                                       | 3                                            | 0                                          | 0                                                   | 0                                                       | 0                                            | 0                                                     | 6                                          |

| DATE         | PHYTO-<br>PLANK-<br>TON,<br>TOTAL<br>(CELLS<br>PER ML) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDED<br>(T/DAY) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|--------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|
| OCT<br>09... | 430                                                    | 50                                         | 88                                                             | 54                                                            |
| JAN<br>13... | --                                                     | 14                                         | --                                                             | 68                                                            |
| MAR<br>10... | 3400                                                   | 31                                         | 65                                                             | 76                                                            |
| MAY<br>08... | 1300                                                   | 16                                         | 26                                                             | 100                                                           |
| JUL<br>06... | 1000                                                   | 138                                        | 850                                                            | 63                                                            |
| SEP<br>02... | --                                                     | 40                                         | 60                                                             | 97                                                            |

&lt; Actual value is known to be less than the value shown.

## MISSISSIPPI RIVER DELTA

07375500 TANGIPAHOA RIVER AT ROBERT, LA--Continued

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 |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-------|-----|
|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH |     |
| 1     | ---     | --- | ---      | --- |          |     | 50      | 44  | 52       | 45  | 48    | 47  |
| 2     | ---     | --- | ---      | --- |          |     | 50      | 42  | 64       | 49  | 49    | 46  |
| 3     | 51      | 41  | ---      | --- |          |     | 46      | 39  | 59       | 51  | 48    | 46  |
| 4     | 51      | 40  | ---      | --- |          |     | 44      | 39  | 56       | 54  | 47    | 46  |
| 5     | 51      | 41  | ---      | --- |          |     | 59      | 41  | 58       | 51  | 50    | 46  |
| 6     | 51      | 38  | 51       | 38  |          |     | 49      | 41  | 59       | 38  | 59    | 48  |
| 7     | 52      | 39  | 51       | 39  |          |     | 57      | 40  | 49       | 46  | 70    | 50  |
| 8     | 54      | 39  | 51       | 40  |          |     | 45      | 38  | 53       | 48  | 70    | 59  |
| 9     | 54      | 40  | 53       | 41  |          |     | 43      | 40  | 57       | 53  | 60    | 56  |
| 10    | 54      | 41  | 50       | 41  |          |     | 42      | 40  | 56       | 30  | ---   | --- |
| 11    | ---     | --- | 52       | 42  |          |     | 60      | 40  | 34       | 31  | ---   | --- |
| 12    | ---     | --- | 49       | 40  |          |     | 43      | 37  | 40       | 34  | ---   | --- |
| 13    | ---     | --- | 49       | 40  |          |     | 49      | 39  | 53       | 39  | ---   | --- |
| 14    | ---     | --- | 49       | 45  |          |     | 53      | 40  | 54       | 52  | ---   | --- |
| 15    | ---     | --- | 49       | 44  |          |     | 50      | 45  | 54       | 53  | ---   | --- |
| 16    | ---     | --- | 45       | 43  |          |     | 48      | 45  | 54       | 51  | ---   | --- |
| 17    | ---     | --- | ---      | --- |          |     | 57      | 46  | 54       | 50  | ---   | --- |
| 18    | ---     | --- | ---      | --- |          |     | 59      | 55  | 52       | 50  | ---   | --- |
| 19    | ---     | --- | ---      | --- |          |     | 60      | 57  | 54       | 51  | ---   | --- |
| 20    | ---     | --- | ---      | --- |          |     | 63      | 59  | 55       | 52  | ---   | --- |
| 21    | ---     | --- | ---      | --- |          |     | 65      | 61  | 55       | 53  | ---   | --- |
| 22    | 52      | 41  | ---      | --- |          |     | 66      | 63  | 54       | 52  | ---   | --- |
| 23    | 52      | 43  | ---      | --- |          |     | ---     | --- | 53       | 51  | ---   | --- |
| 24    | 51      | 42  | ---      | --- |          |     | ---     | --- | 53       | 50  | ---   | --- |
| 25    | 50      | 38  | ---      | --- |          |     | ---     | --- | 50       | 49  | ---   | --- |
| 26    | 49      | 37  | ---      | --- |          |     | ---     | --- | 51       | 48  | ---   | --- |
| 27    | 48      | 42  | ---      | --- |          |     | ---     | --- | 50       | 48  | ---   | --- |
| 28    | ---     | --- | ---      | --- |          |     | ---     | --- | 49       | 47  | ---   | --- |
| 29    | ---     | --- | ---      | --- |          |     | ---     | --- | ---      | --- | ---   | --- |
| 30    | ---     | --- | ---      | --- |          |     | 48      | 46  | ---      | --- | ---   | --- |
| 31    | ---     | --- | ---      | --- |          |     | 48      | 46  | ---      | --- | ---   | --- |
| MONTH | ---     | --- | ---      | --- |          |     | 66      | 37  | 64       | 30  | ---   | --- |

| DAY   | MAX   | MIN | MAX | MIN | MAX  | MIN | MAX  | MIN | MAX    | MIN | MAX       | MIN |
|-------|-------|-----|-----|-----|------|-----|------|-----|--------|-----|-----------|-----|
|       | APRIL |     | MAY |     | JUNE |     | JULY |     | AUGUST |     | SEPTEMBER |     |
| 1     | ---   | --- |     |     |      |     | ---  | --- | 46     | 44  | 58        | 53  |
| 2     | ---   | --- |     |     |      |     | ---  | --- | 58     | 44  | 59        | 54  |
| 3     | 63    | 55  |     |     |      |     | ---  | --- | 54     | 48  | 64        | 56  |
| 4     | 67    | 59  |     |     |      |     | ---  | --- | 48     | 42  | 64        | 56  |
| 5     | 59    | 53  |     |     |      |     | ---  | --- | 50     | 45  | 62        | 58  |
| 6     | 54    | 50  |     |     |      |     | ---  | --- | 50     | 47  | 61        | 58  |
| 7     | ---   | --- |     |     |      |     | 49   | 46  | 51     | 45  | 59        | 57  |
| 8     | ---   | --- |     |     |      |     | 49   | 46  | 48     | 44  | 60        | 57  |
| 9     | ---   | --- |     |     |      |     | 47   | 43  | ---    | --- | 59        | 57  |
| 10    | ---   | --- |     |     |      |     | 45   | 41  | ---    | --- | 57        | 55  |
| 11    | ---   | --- |     |     |      |     | 47   | 45  | ---    | --- | 56        | 53  |
| 12    | ---   | --- |     |     |      |     | 47   | 46  | ---    | --- | 54        | 51  |
| 13    | ---   | --- |     |     |      |     | 46   | 44  | ---    | --- | 52        | 49  |
| 14    | ---   | --- |     |     |      |     | 46   | 45  | ---    | --- | 51        | 46  |
| 15    | ---   | --- |     |     |      |     | 45   | 43  | 47     | 43  | 58        | 46  |
| 16    | ---   | --- |     |     |      |     | 51   | 43  | 48     | 43  | 52        | 44  |
| 17    | 45    | 43  |     |     |      |     | 50   | 48  | 48     | 44  | 44        | 39  |
| 18    | 44    | 43  |     |     |      |     | 49   | 47  | 48     | 44  | 47        | 41  |
| 19    | 44    | 43  |     |     |      |     | 48   | 46  | 52     | 36  | 50        | 47  |
| 20    | 44    | 43  |     |     |      |     | 48   | 45  | 50     | 46  | 51        | 49  |
| 21    | 47    | 43  |     |     |      |     | 46   | 45  | 51     | 47  | 50        | 49  |
| 22    | 44    | 43  |     |     |      |     | 46   | 43  | 48     | 47  | 50        | 49  |
| 23    | 46    | 43  |     |     |      |     | 45   | 42  | 50     | 48  | 49        | 47  |
| 24    | 48    | 43  |     |     |      |     | 44   | 41  | 50     | 49  | 49        | 47  |
| 25    | ---   | --- |     |     |      |     | 44   | 41  | 54     | 51  | 48        | 44  |
| 26    | ---   | --- |     |     |      |     | 43   | 42  | 54     | 53  | ---       | --- |
| 27    | ---   | --- |     |     |      |     | 43   | 41  | 54     | 52  | ---       | --- |
| 28    | ---   | --- |     |     |      |     | 43   | 40  | 55     | 54  | ---       | --- |
| 29    | ---   | --- |     |     |      |     | 49   | 40  | ---    | --- | ---       | --- |
| 30    | ---   | --- |     |     |      |     | 49   | 44  | 60     | 53  | ---       | --- |
| 31    | ---   | --- |     |     |      |     | 47   | 45  | 60     | 52  | ---       | --- |
| MONTH | ---   | --- |     |     |      |     | 51   | 40  | 60     | 36  | 64        | 39  |

## MISSISSIPPI RIVER DELTA

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07375500 TANGIPAHOA RIVER AT ROBERT, 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 |
|---------|------|----------|------|----------|------|---------|------|----------|------|-------|-----|-----|
| OCTOBER |      | NOVEMBER |      | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH |     |     |
| 1       | ---  | ---      | ---  | ---      | 13.5 | 11.0    | 11.5 | 9.5      | ---  | ---   | --- | --- |
| 2       | ---  | ---      | ---  | ---      | 16.0 | 13.5    | 11.0 | 9.5      | ---  | ---   | --- | --- |
| 3       | 23.0 | 21.0     | ---  | ---      | 15.5 | 14.5    | 11.0 | 9.0      | ---  | ---   | --- | --- |
| 4       | 21.5 | 19.5     | ---  | ---      | 14.5 | 13.5    | 11.5 | 10.0     | ---  | ---   | --- | --- |
| 5       | 21.5 | 19.5     | ---  | ---      | 15.5 | 13.0    | 10.5 | 9.5      | ---  | ---   | --- | --- |
| 6       | 20.5 | 18.5     | 18.0 | 16.0     | 16.5 | 14.5    | 10.5 | 9.5      | ---  | ---   | --- | --- |
| 7       | 20.0 | 17.5     | 18.0 | 16.0     | 18.0 | 16.0    | 11.5 | 10.0     | ---  | ---   | --- | --- |
| 8       | 20.5 | 18.0     | 18.5 | 17.0     | 18.0 | 16.5    | 11.0 | 9.5      | ---  | ---   | --- | --- |
| 9       | 21.0 | 18.5     | 19.5 | 17.5     | 18.0 | 17.5    | 11.0 | 9.5      | ---  | ---   | --- | --- |
| 10      | 21.5 | 19.0     | 19.0 | 17.5     | 17.5 | 14.5    | 11.0 | 9.5      | ---  | ---   | --- | --- |
| 11      | ---  | ---      | 19.0 | 17.5     | 14.0 | 13.0    | 10.0 | 8.5      | 14.0 | 11.0  | --- | --- |
| 12      | ---  | ---      | 18.0 | 17.0     | 13.0 | 12.0    | 8.5  | 7.0      | 11.0 | 9.0   | --- | --- |
| 13      | ---  | ---      | 17.5 | 16.0     | 12.5 | 11.5    | 7.5  | 5.5      | 9.5  | 8.5   | --- | --- |
| 14      | ---  | ---      | 19.0 | 17.0     | 12.5 | 11.5    | 8.5  | 6.5      | 10.5 | 9.0   | --- | --- |
| 15      | ---  | ---      | 20.0 | 18.5     | 12.5 | 11.0    | 10.0 | 8.0      | 12.0 | 10.5  | --- | --- |
| 16      | ---  | ---      | 19.0 | 17.5     | 13.5 | 12.0    | 10.0 | 8.5      | 14.0 | 12.0  | --- | --- |
| 17      | ---  | ---      | ---  | ---      | 13.0 | 11.5    | 9.0  | 7.5      | ---  | ---   | --- | --- |
| 18      | ---  | ---      | ---  | ---      | 12.5 | 10.5    | 8.5  | 6.5      | ---  | ---   | --- | --- |
| 19      | ---  | ---      | ---  | ---      | 13.5 | 11.5    | 9.0  | 7.0      | ---  | ---   | --- | --- |
| 20      | ---  | ---      | 13.0 | 11.0     | 13.0 | 10.0    | 9.0  | 8.5      | ---  | ---   | --- | --- |
| 21      | ---  | ---      | 12.5 | 11.0     | 10.0 | 8.5     | 8.5  | 8.5      | ---  | ---   | --- | --- |
| 22      | 20.0 | 17.5     | 12.5 | 12.0     | 10.0 | 8.0     | 9.5  | 8.0      | ---  | ---   | --- | --- |
| 23      | 21.5 | 19.0     | 13.5 | 12.5     | 12.0 | 9.5     | 11.5 | 9.0      | ---  | ---   | --- | --- |
| 24      | 22.0 | 20.0     | 14.0 | 13.5     | 14.0 | 12.0    | 12.0 | 9.5      | ---  | ---   | --- | --- |
| 25      | 20.5 | 18.5     | 13.0 | 12.5     | 12.5 | 9.5     | 13.0 | 10.0     | ---  | ---   | --- | --- |
| 26      | 19.5 | 16.5     | 12.5 | 11.5     | 10.0 | 8.5     | 13.5 | 11.5     | ---  | ---   | --- | --- |
| 27      | 19.0 | 17.5     | 11.0 | 10.5     | 11.0 | 9.5     | 14.5 | 12.5     | ---  | ---   | --- | --- |
| 28      | ---  | ---      | 10.5 | 10.0     | 11.0 | 9.0     | 15.0 | 13.0     | ---  | ---   | --- | --- |
| 29      | ---  | ---      | 11.5 | 10.0     | 11.0 | 9.0     | ---  | ---      | ---  | ---   | --- | --- |
| 30      | ---  | ---      | 12.5 | 10.5     | 11.5 | 10.0    | ---  | ---      | ---  | ---   | --- | --- |
| 31      | ---  | ---      | ---  | ---      | 11.0 | 9.5     | ---  | ---      | ---  | ---   | --- | --- |
| MONTH   | ---  | ---      | 20.0 | 10.0     | 18.0 | 8.0     | 15.0 | 5.5      | ---  | ---   | --- | --- |

| DAY   | MAX  | MIN  | MAX | MIN  | MAX  | MIN  | MAX  | MIN    | MAX  | MIN       | MAX  | MIN  |
|-------|------|------|-----|------|------|------|------|--------|------|-----------|------|------|
| APRIL |      | MAY  |     | JUNE |      | JULY |      | AUGUST |      | SEPTEMBER |      |      |
| 1     | ---  | ---  | --- | ---  | ---  | ---  | 29.0 | 27.5   | 32.0 | 28.0      | 28.5 | 27.5 |
| 2     | ---  | ---  | --- | ---  | ---  | ---  | ---  | ---    | 29.5 | 28.0      | 27.5 | 25.5 |
| 3     | 20.5 | 19.0 | --- | ---  | ---  | ---  | ---  | ---    | 30.5 | 27.5      | 27.0 | 24.5 |
| 4     | 22.0 | 20.0 | --- | ---  | ---  | ---  | ---  | ---    | 30.0 | 27.5      | 27.0 | 24.5 |
| 5     | 22.5 | 20.5 | --- | ---  | ---  | ---  | ---  | ---    | 31.0 | 28.0      | 28.0 | 25.0 |
| 6     | ---  | ---  | --- | ---  | ---  | ---  | ---  | ---    | 32.0 | 28.5      | 28.5 | 25.0 |
| 7     | ---  | ---  | --- | ---  | ---  | ---  | 27.0 | 26.0   | 31.5 | 28.5      | 28.5 | 25.5 |
| 8     | ---  | ---  | --- | ---  | ---  | ---  | 29.0 | 26.5   | 31.5 | 28.5      | 28.5 | 25.5 |
| 9     | ---  | ---  | --- | ---  | ---  | ---  | 29.5 | 27.5   | ---  | ---       | 28.5 | 25.5 |
| 10    | ---  | ---  | --- | ---  | ---  | ---  | 30.0 | 27.5   | ---  | ---       | 28.0 | 24.0 |
| 11    | ---  | ---  | --- | ---  | ---  | ---  | 29.5 | 27.5   | ---  | ---       | 27.5 | 23.5 |
| 12    | ---  | ---  | --- | ---  | ---  | ---  | 30.0 | 27.0   | ---  | ---       | 28.0 | 25.0 |
| 13    | ---  | ---  | --- | ---  | ---  | ---  | 31.0 | 27.5   | ---  | ---       | 27.0 | 26.0 |
| 14    | ---  | ---  | --- | ---  | ---  | ---  | 32.0 | 28.0   | ---  | ---       | 27.0 | 25.5 |
| 15    | ---  | ---  | --- | ---  | ---  | ---  | 32.0 | 28.5   | 31.5 | 28.5      | 25.5 | 25.0 |
| 16    | ---  | ---  | --- | ---  | ---  | ---  | 32.5 | 29.0   | 32.0 | 28.5      | 26.5 | 24.0 |
| 17    | 26.0 | 23.5 | --- | ---  | ---  | ---  | 32.0 | 28.5   | 31.0 | 28.0      | 26.0 | 24.0 |
| 18    | 26.5 | 23.5 | --- | ---  | ---  | ---  | 32.5 | 28.5   | 32.0 | 28.0      | 24.5 | 22.0 |
| 19    | 26.5 | 24.0 | --- | ---  | ---  | ---  | 32.5 | 29.0   | 30.5 | 28.0      | 23.5 | 20.5 |
| 20    | 26.5 | 23.5 | --- | ---  | ---  | ---  | 32.5 | 29.5   | 30.0 | 27.0      | 23.5 | 20.0 |
| 21    | 26.0 | 24.0 | --- | ---  | ---  | ---  | 32.5 | 29.0   | 30.5 | 27.5      | 24.0 | 20.5 |
| 22    | 25.5 | 24.0 | --- | ---  | ---  | ---  | 33.0 | 29.0   | 30.0 | 27.0      | 25.5 | 21.5 |
| 23    | 25.0 | 23.5 | --- | ---  | ---  | ---  | 32.5 | 29.5   | 30.0 | 26.5      | 26.0 | 22.5 |
| 24    | 23.5 | 22.0 | --- | ---  | ---  | ---  | 33.0 | 29.5   | 29.0 | 26.5      | 27.0 | 23.5 |
| 25    | 22.0 | 21.0 | --- | ---  | ---  | ---  | 32.5 | 29.5   | 30.5 | 26.5      | 27.0 | 24.0 |
| 26    | ---  | ---  | --- | ---  | 30.5 | 26.0 | 32.0 | 29.0   | 30.5 | 27.0      | 27.5 | 24.0 |
| 27    | ---  | ---  | --- | ---  | 30.5 | 27.0 | 31.5 | 28.0   | 29.0 | 27.0      | 27.5 | 24.5 |
| 28    | ---  | ---  | --- | ---  | 30.5 | 27.0 | 32.0 | 28.5   | 29.0 | 27.0      | 27.0 | 24.5 |
| 29    | ---  | ---  | --- | ---  | 29.5 | 27.5 | 32.0 | 28.0   | 29.0 | 27.0      | 27.0 | 24.0 |
| 30    | ---  | ---  | --- | ---  | 31.0 | 26.5 | 31.0 | 28.5   | 29.0 | 26.5      | 27.0 | 23.5 |
| 31    | ---  | ---  | --- | ---  | ---  | ---  | 32.0 | 28.0   | 30.0 | 26.5      | ---  | ---  |
| MONTH | ---  | ---  | --- | ---  | ---  | ---  | 33.0 | 26.0   | 32.0 | 26.5      | 28.5 | 20.0 |

## MISSISSIPPI RIVER DELTA

07375500 TANGIPAHOA RIVER AT ROBERT, LA--Continued

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO JULY 1981

| DATE<br>TIME        | OCT 9,80<br>1330 | MAR 10,81<br>1400 | MAY 8,81<br>1315 | JUL 6,81<br>1345 |
|---------------------|------------------|-------------------|------------------|------------------|
| TOTAL CELLS/ML      | 430              | 3400              | 1300             | 1000             |
| DIVERSITY: DIVISION | 1.0              | 1.4               | 1.2              | 1.1              |
| ..CLASS             | 1.0              | 1.4               | 1.3              | 1.1              |
| ..ORDER             | 1.8              | 1.9               | 2.2              | 1.4              |
| ...FAMILY           | 2.1              | 2.4               | 2.7              | 1.5              |
| ....GENUS           | 2.1              | 2.7               | 3.2              | 2.0              |

| ORGANISM                      | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| CHLOROPHYTA (GREEN ALGAE)     |              |              |              |              |              |              |              |              |
| ..CHLOROPHYCEAE               |              |              |              |              |              |              |              |              |
| ...CHLOROCOCCALES             |              |              |              |              |              |              |              |              |
| ...COELASTRACEAE              |              |              |              |              |              |              |              |              |
| ....COELASTRUM                | --           | -            | --           | -            | --           | -            | 210#         | 20           |
| ....MICRACITINACEAE           |              |              |              |              |              |              |              |              |
| ....GOLENKINIA                | --           | -            | 64           | 2            | --           | -            | --           | -            |
| ....OOCYSTACEAE               |              |              |              |              |              |              |              |              |
| ....ANKISTROUESMUS            | --           | -            | 77           | 2            | --           | -            | --           | -            |
| ....DICTYOSPHAERIUM           | 13           | 3            | 240          | 7            | 52           | 4            | --           | -            |
| ....KIRCHNERIELLA             | --           | -            | --           | -            | 77           | 6            | --           | -            |
| ....OOCYSTIS                  | --           | -            | --           | -            | 210#         | 16           | --           | -            |
| ....TETRAEDRON                | --           | -            | 90           | 3            | 26           | 2            | --           | -            |
| ...SCENEDESMACEAE             |              |              |              |              |              |              |              |              |
| ....SCENEDESMUS               | 26           | 6            | 1200#        | 35           | 130          | 10           | --           | -            |
| ....TETRASTRUM                | --           | -            | 51           | 2            | --           | -            | --           | -            |
| ..VOLVOCALES                  |              |              |              |              |              |              |              |              |
| ...CHLAMYDOMONADACEAE         |              |              |              |              |              |              |              |              |
| ....CHLAMYDOMONAS             | --           | -            | 64           | 2            | 140          | 11           | 26           | 3            |
| ...PHACOTACEAE                |              |              |              |              |              |              |              |              |
| ....PTEROMONAS                | --           | -            | --           | -            | 90           | 7            | --           | -            |
| CHRYSTOPHYTA                  |              |              |              |              |              |              |              |              |
| ..RACILLARIOPHYCEAE           |              |              |              |              |              |              |              |              |
| ...CENTRALES                  |              |              |              |              |              |              |              |              |
| ...COSCINODISCACEAE           |              |              |              |              |              |              |              |              |
| ....CYCLOTELLA                | --           | -            | 26           | 1            | 13           | 1            | 13           | 1            |
| ....MELOSIRA                  | --           | -            | 240          | 7            | --           | -            | --           | -            |
| ..PENNALES                    |              |              |              |              |              |              |              |              |
| ...FRAGILARIACEAE             |              |              |              |              |              |              |              |              |
| ....SYNEDRA                   | 13           | 3            | --           | -            | --           | -            | --           | -            |
| ...NAVICULACEAE               |              |              |              |              |              |              |              |              |
| ....NAVICULA                  | 26           | 6            | *            | 0            | 13           | 1            | 26           | 3            |
| ...NITZSCHACEAE               |              |              |              |              |              |              |              |              |
| ....NITZSCHIA                 | 26           | 6            | --           | -            | 39           | 3            | 26           | 3            |
| ..XANTHOPHYCEAE               |              |              |              |              |              |              |              |              |
| ...HETEROCOCCALES             |              |              |              |              |              |              |              |              |
| ...CHLOROTHECIACEAE           |              |              |              |              |              |              |              |              |
| ....OPHIOCYTIUM               | --           | -            | --           | -            | 13           | 1            | --           | -            |
| CRYPTOPHYTA (CRYPTOMONADS)    |              |              |              |              |              |              |              |              |
| ..CRYPTOPHYCEAE               |              |              |              |              |              |              |              |              |
| ...CRYPTOMONADALES            |              |              |              |              |              |              |              |              |
| ...CRYPTOMONADACEAE           |              |              |              |              |              |              |              |              |
| ....CRYPTOMONAS               | --           | -            | 26           | 1            | --           | -            | --           | -            |
| CYANOPHYTA (BLUE-GREEN ALGAE) |              |              |              |              |              |              |              |              |
| ..CYANOPHYCEAE                |              |              |              |              |              |              |              |              |
| ...CHROOCOCCALES              |              |              |              |              |              |              |              |              |
| ...CHROOCOCCACEAE             |              |              |              |              |              |              |              |              |
| ....ANACYSTIS                 | 140#         | 33           | 850#         | 25           | 270#         | 21           | 26           | 3            |
| ...HORMOGONALES               |              |              |              |              |              |              |              |              |
| ...NOSTOCACEAE                |              |              |              |              |              |              |              |              |
| ....ANABAENA                  | --           | -            | --           | -            | --           | -            | 170#         | 16           |
| ....APHANIZOMENON             | --           | -            | --           | -            | --           | -            | 530#         | 52           |
| ...OSCILLATORIACEAE           |              |              |              |              |              |              |              |              |
| ....LYNGBYA                   | --           | -            | 420          | 13           | --           | -            | --           | -            |
| ...OSCILLATORIA               | 180#         | 42           | --           | -            | 230#         | 18           | --           | -            |

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

\* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

## MISSISSIPPI RIVER DELTA

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301945090161500 LAKE PONTCHARTRAIN AT MOUTH OF TANGIPAHOA RIVER, NEAR LEE LANDING, LA (CE 85615)

LOCATION.--Lat 30°19'45", long 90°16'15", T.8 S., R.9 E., Tangipahoa Parish, Hydrologic Unit 08090202, 6.8 mi (10.9 km) southeast of Lee Landing.

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.

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

| DATE      | TIME | SPECIFIC CONDUCTANCE (MICRO-MHOS) | PH FIELD (UNITS) | COLOR (PLATINUM COBALT UNITS) | TURBIDITY (NTU) | SETTLABLE MATTER (ML/L/HK) | OXYGEN, DIS-SOLVED (MG/L) | OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) | OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L) | COLIFORM, TOTAL, IMMED. (COLS./100 ML) | COLIFORM, FECAL, U.F. UM-MF (COLS./100 ML) | HARDNESS (MG/L AS CaCO3) |
|-----------|------|-----------------------------------|------------------|-------------------------------|-----------------|----------------------------|---------------------------|---------------------------------------------|---------------------------------------------|----------------------------------------|--------------------------------------------|--------------------------|
| OCT 27... | 0955 | 3530                              | 7.2              | 5                             | 10              | <1.0                       | 9.1                       | 25                                          | .7                                          | K800                                   | K200                                       | 360                      |
| NOV 19... | 1010 | 4070                              | 7.5              | 10                            | 9.0             | <1.0                       | 9.2                       | 32                                          | .4                                          | K20                                    | K10                                        | 430                      |
| DEC 09... | 1020 | 5550                              | 7.2              | 0                             | 2.0             | <1.0                       | 9.9                       | 97                                          | 1.2                                         | K3                                     | K4                                         | 610                      |
| JAN 19... | 0945 | 5450                              | 7.3              | 5                             | 3.0             | <1.0                       | 11.4                      | 35                                          | 1.0                                         | K8                                     | K2                                         | 580                      |

| DATE      | HARDNESS, NONCARBONATE (MG/L AS CaCO3) | CALCIUM DIS-SOLVED (MG/L AS Ca) | MAGNESIUM, DIS-SOLVED (MG/L AS Mg) | SODIUM, DIS-SOLVED (MG/L AS Na) | POTASSIUM, DIS-SOLVED (MG/L AS K) | ALKALINITY (MG/L AS CaCO3) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLORIDE, DIS-SOLVED (MG/L AS Cl) | SOLIDS, RESIDUE AT 105 DEG. C. SUSPENDED (MG/L) | NITROGEN, NITRATE TOTAL (MG/L AS N) | NITROGEN, NITRITE TOTAL (MG/L AS N) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) |
|-----------|----------------------------------------|---------------------------------|------------------------------------|---------------------------------|-----------------------------------|----------------------------|----------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| OCT 27... | 340                                    | 30                              | 70                                 | 580                             | 23                                | 27                         | 140                              | 1100                              | 20                                              | .11                                 | .00                                 | .11                                 |
| NOV 19... | 390                                    | 37                              | 82                                 | 670                             | 28                                | 36                         | 170                              | 1200                              | 8                                               | .00                                 | .01                                 | .01                                 |
| DEC 09... | 580                                    | 46                              | 120                                | 970                             | 4.7                               | 31                         | 250                              | 1700                              | 3                                               | .00                                 | .00                                 | .00                                 |
| JAN 19... | 550                                    | 45                              | 110                                | 930                             | 30                                | 35                         | 240                              | 1700                              | 3                                               | .04                                 | .01                                 | .05                                 |

| DATE      | NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC, TOTAL (UG/L AS AS) | ARSENIC, DIS-SOLVED (UG/L AS AS) | BERYLLIUM, TOTAL (UG/L AS RE) | BERYLLIUM, DIS-SOLVED (UG/L AS RE) | CADMIUM, TOTAL (UG/L AS Cd) | CADMIUM, DIS-SOLVED (UG/L AS Cd) | CHROMIUM, TOTAL (UG/L AS CR) | CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR) | COPPER, TOTAL (UG/L AS CU) | COPPER, DIS-SOLVED (UG/L AS CU) |
|-----------|----------------------------------------------|-------------------------------|-----------------------------|----------------------------------|-------------------------------|------------------------------------|-----------------------------|----------------------------------|------------------------------|-----------------------------------------|----------------------------|---------------------------------|
| OCT 27... | .54                                          | .08                           | 1                           | 0                                | 0                             | 0                                  | 0                           | 1                                | 0                            | 0                                       | 4                          | 3                               |
| NOV 19... | .63                                          | .04                           | 1                           | 0                                | --                            | 10                                 | 5                           | 0                                | 0                            | 0                                       | 3                          | 2                               |
| DEC 09... | .67                                          | .04                           | 0                           | 0                                | 0                             | 0                                  | 0                           | 1                                | 0                            | 0                                       | 4                          | 0                               |
| JAN 19... | 1.0                                          | .01                           | 0                           | 0                                | 0                             | 0                                  | 0                           | 0                                | 40                           | 0                                       | 5                          | 3                               |

&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).



301945090161500 LAKE PONTCHARTRAIN AT MOUTH OF TANGIPAHOA RIVER, NEAR LEE LANDING, LA (CE 85615)--Continued

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

| DATE         | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PH) | MERCURY<br>TOTAL<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | ZINC,<br>TOTAL<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|--------------------------------------------|-----------------------------------|--------------------------------------------|-------------------------------------|----------------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------------------|-----------------------------------|--------------------------------------------|-----------------------------------------------|
| OCT<br>27... | 30                                         | 0                                 | 2                                          | .0                                  | .0                                           | 7                                   | 3                                            | 0                                          | 0                                                   | --                                | 20                                         | --                                            |
| NOV<br>19... | 30                                         | 2                                 | 2                                          | .0                                  | .0                                           | 5                                   | 4                                            | 0                                          | 0                                                   | 10                                | 10                                         | 5.4                                           |
| DEC<br>09... | 40                                         | 0                                 | 0                                          | .0                                  | .0                                           | 1                                   | 2                                            | 0                                          | 0                                                   | 20                                | 20                                         | 5.7                                           |
| JAN<br>19... | 20                                         | 9                                 | 2                                          | .0                                  | .0                                           | 4                                   | 2                                            | 0                                          | 0                                                   | --                                | 20                                         | 4.4                                           |

| DATE         | CYANIDE<br>TOTAL<br>(MG/L<br>AS CN) | PHENOLS<br>(UG/L) | OIL AND<br>GREASE,<br>TOTAL<br>REC'D<br>GRAVIMETRIC<br>(MG/L) | PCR<br>TOTAL<br>(UG/L) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L) | ALDRIN,<br>TOTAL<br>(UG/L) | CHLOR-<br>DANF,<br>TOTAL<br>(UG/L) | DDD,<br>TOTAL<br>(UG/L) | DDE,<br>TOTAL<br>(UG/L) | DDT,<br>TOTAL<br>(UG/L) | DI-<br>AZINON,<br>TOTAL<br>(UG/L) |
|--------------|-------------------------------------|-------------------|---------------------------------------------------------------|------------------------|---------------------------------------------------------------|----------------------------|------------------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|
| OCT<br>27... | .00                                 | 6                 | 0                                                             | .0                     | .0                                                            | .000                       | .0                                 | .000                    | .000                    | .000                    | .00                               |
| NOV<br>19... | .00                                 | 0                 | 0                                                             | .0                     | .0                                                            | .000                       | .0                                 | .000                    | .001                    | .000                    | .00                               |
| DEC<br>09... | .00                                 | 0                 | 0                                                             | <.1                    | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .01                               |
| JAN<br>19... | .00                                 | 1                 | 0                                                             | <.1                    | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .01                               |

| DATE         | DI-<br>ELDRIN<br>TOTAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) | ENDRIN,<br>TOTAL<br>(UG/L) | ETHION,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L) | LINDANE<br>TOTAL<br>(UG/L) | MALA-<br>THION,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L) | METHYL<br>THION,<br>TOTAL<br>(UG/L) |
|--------------|----------------------------------|-------------------------------------|----------------------------|----------------------------|-------------------------------------|-----------------------------------------------|----------------------------|------------------------------------|--------------------------------------------|----------------------------------------------|-------------------------------------|
| OCT<br>27... | .000                             | .000                                | .000                       | .00                        | .000                                | .000                                          | .000                       | .00                                | .00                                        | .00                                          | .00                                 |
| NOV<br>19... | .000                             | .000                                | .000                       | .00                        | .000                                | .000                                          | .000                       | .00                                | .00                                        | .00                                          | .00                                 |
| DEC<br>09... | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                |
| JAN<br>19... | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                |

| DATE         | MIREX,<br>TOTAL<br>(UG/L) | PARA-<br>THION,<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>TOTAL<br>(UG/L) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOTAL<br>TRI-<br>THION<br>(UG/L) | 2,4-D,<br>TOTAL<br>(UG/L) | 2, 4-DP<br>TOTAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) | CHLOR-A<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) | CHLOR-B<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) |
|--------------|---------------------------|------------------------------------|----------------------------------|------------------------------------|----------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| OCT<br>27... | .00                       | .00                                | .00                              | .0                                 | .00                              | .02                       | .00                        | .00                        | .00                        | 5.77                                                              | .000                                                              |
| NOV<br>19... | .00                       | .00                                | .00                              | .0                                 | .00                              | .03                       | .00                        | .00                        | .00                        | 1.57                                                              | .000                                                              |
| DEC<br>09... | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .03                       | .00                        | .00                        | .00                        | 3.85                                                              | .000                                                              |
| JAN<br>19... | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .03                       | .00                        | .00                        | .00                        | 5.80                                                              | .000                                                              |

&lt; Actual value is known to be less than the value shown.

## 07375800 TICKFAW RIVER NEAR LIVERPOOL, LA

LOCATION.--Lat 30°55'50", long 90°40'24", on line between lots 46 and 47, T. 1 S., R. 5 E., St. Helena meridian, St. Helena Parish, Hydrologic Unit 08070203, near left bank on downstream side of bridge on State Highway 38, 0.2 mi (0.3 km) east of intersection of State Highways 38 and 441, 0.5 mi (0.8 km) upstream from Cotton Patch Branch, 1.0 mi (1.6 km) north of Liverpool.

DRAINAGE AREA.--89.7 mi<sup>2</sup> (232.3 km<sup>2</sup>).

PERIOD OF RECORD.--March 1956 to September 1968, October 1979 to September 1981 (discontinued). October 1968 to September 1979 (annual maximums only).

GAGE.--Water-stage recorder. Altitude of gage is 206 ft (63 m), from topographic map. Mar. 9, 1956, to Sept. 30, 1968, at site 0.2 mi (0.3 km) west at same datum. Oct. 1, 1968, to Aug. 9, 1979, nonrecording gage and crest-stage indicator at site 0.2 mi (0.3 km) west at same datum.

REMARKS.--Records good. Records of dissolved oxygen and water temperatures for the water year 1981 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--14 years (1957-68, 1980-81), 116 ft<sup>3</sup>/s (3.285 m<sup>3</sup>/s), 17.56 in/yr (446 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,000 ft<sup>3</sup>/s (510 m<sup>3</sup>/s) Mar. 29, 1980, maximum gage height, 12.18 ft (3.712 m) Apr. 22, 1977; minimum discharge, 29 ft<sup>3</sup>/s (0.82 m<sup>3</sup>/s) Sept. 26-30, 1968; minimum gage height, 1.76 ft (0.536 m) Oct. 9, 11, 12, 13, 14, 15, 16, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 737 ft<sup>3</sup>/s (20.8 m<sup>3</sup>/s) Dec. 11, gage height, 6.33 ft (1.929 m), no peak above base of 1,000 ft<sup>3</sup>/s (28 m<sup>3</sup>/s); minimum discharge, 38 ft<sup>3</sup>/s (1.08 m<sup>3</sup>/s) Aug. 26, 27; minimum gage height, 2.49 ft (0.759 m) Oct. 12, 13, 14, 15.

REVISIONS.--Revised figures of discharge for the water year 1980, superseding those published in WDR LA-80-2, are given herein.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

| DAY               | OCT   | NOV  | DEC      | JAN  | FEB      | MAR    | APR   | MAY       | JUN  | JUL      | AUG  | SEP  |
|-------------------|-------|------|----------|------|----------|--------|-------|-----------|------|----------|------|------|
| 1                 | 45    | 42   | 63       | 53   | 215      | 90     | 502   | 107       | 65   | 57       | 62   | 53   |
| 2                 | 45    | 42   | 60       | 53   | 117      | 90     | 413   | 106       | 64   | 56       | 58   | 53   |
| 3                 | 44    | 42   | 58       | 55   | 97       | 78     | 758   | 149       | 63   | 56       | 56   | 52   |
| 4                 | 44    | 41   | 57       | 55   | 87       | 74     | 580   | 116       | 62   | 56       | 55   | 52   |
| 5                 | 43    | 41   | 57       | 54   | 83       | 77     | 231   | 99        | 61   | 55       | 55   | 53   |
| 6                 | 43    | 41   | 58       | 53   | 86       | 75     | 160   | 93        | 60   | 55       | 57   | 58   |
| 7                 | 42    | 42   | 58       | 56   | 86       | 83     | 138   | 89        | 60   | 55       | 55   | 55   |
| 8                 | 42    | 44   | 61       | 65   | 81       | 154    | 136   | 87        | 60   | 67       | 54   | 54   |
| 9                 | 42    | 48   | 61       | 211  | 437      | 124    | 130   | 86        | 60   | 69       | 54   | 53   |
| 10                | 42    | 54   | 61       | 292  | 1240     | 94     | 115   | 84        | 59   | 58       | 54   | 53   |
| 11                | 41    | 56   | 63       | 600  | 500      | 82     | 107   | 83        | 58   | 56       | 56   | 52   |
| 12                | 42    | 51   | 63       | 1040 | 200      | 74     | 462   | 82        | 58   | 55       | 54   | 51   |
| 13                | 41    | 51   | 138      | 658  | 140      | 71     | 3580  | 82        | 58   | 55       | 54   | 51   |
| 14                | 42    | 50   | 461      | 166  | 115      | 67     | 2210  | 82        | 57   | 54       | 53   | 52   |
| 15                | 42    | 50   | 285      | 119  | 100      | 65     | 907   | 84        | 57   | 54       | 53   | 53   |
| 16                | 42    | 51   | 111      | 144  | 94       | 64     | 252   | 842       | 57   | 54       | 53   | 53   |
| 17                | 41    | 51   | 87       | 542  | 91       | 105    | 157   | 3510      | 57   | 54       | 52   | 53   |
| 18                | 41    | 51   | 74       | 744  | 86       | 426    | 161   | 1490      | 57   | 54       | 52   | 54   |
| 19                | 41    | 51   | 67       | 372  | 82       | 345    | 313   | 760       | 58   | 54       | 52   | 53   |
| 20                | 41    | 53   | 62       | 150  | 80       | 133    | 227   | 636       | 62   | 64       | 52   | 53   |
| 21                | 42    | 54   | 59       | 115  | 77       | 175    | 144   | 737       | 59   | 60       | 51   | 53   |
| 22                | 42    | 70   | 60       | 116  | 75       | 165    | 116   | 272       | 59   | 67       | 51   | 53   |
| 23                | 42    | 176  | 72       | 310  | 73       | 106    | 104   | 221       | 86   | 71       | 51   | 52   |
| 24                | 41    | 181  | 116      | 278  | 70       | 411    | 97    | 140       | 82   | 65       | 51   | 52   |
| 25                | 41    | 313  | 152      | 136  | 68       | 652    | 210   | 113       | 65   | 57       | 51   | 53   |
| 26                | 41    | 665  | 97       | 137  | 66       | 184    | 1940  | 97        | 64   | 58       | 52   | 57   |
| 27                | 42    | 325  | 73       | 159  | 66       | 414    | 1180  | 85        | 60   | 57       | 53   | 55   |
| 28                | 42    | 92   | 64       | 121  | 65       | 4590   | 352   | 77        | 59   | 68       | 57   | 53   |
| 29                | 42    | 74   | 58       | 100  | 67       | 5480   | 157   | 72        | 58   | 58       | 54   | 53   |
| 30                | 41    | 67   | 56       | 90   | ---      | 6660   | 124   | 68        | 57   | 55       | 54   | 97   |
| 31                | 41    | ---  | 55       | 169  | ---      | 1270   | ---   | 67        | ---  | 59       | 53   | ---  |
| TOTAL             | 1303  | 2969 | 2857     | 7213 | 4644     | 22478  | 15963 | 10616     | 1842 | 1813     | 1669 | 1639 |
| MEAN              | 42.0  | 99.0 | 92.2     | 233  | 160      | 725    | 532   | 342       | 61.4 | 58.5     | 53.8 | 54.6 |
| MAX               | 45    | 665  | 451      | 1040 | 1240     | 6660   | 3580  | 3510      | 86   | 71       | 62   | 97   |
| MIN               | 41    | 41   | 55       | 53   | 65       | 64     | 97    | 67        | 57   | 54       | 51   | 51   |
| CFSM              | .47   | 1.10 | 1.03     | 2.60 | 1.78     | 8.08   | 5.93  | 3.81      | .69  | .65      | .60  | .61  |
| IN.               | .54   | 1.23 | 1.18     | 2.99 | 1.93     | 9.32   | 6.62  | 4.40      | .76  | .75      | .69  | .68  |
| WTR YR 1980 TOTAL | 75006 |      | MEAN 205 |      | MAX 6660 | MIN 41 |       | CFSM 2.29 |      | IN 31.11 |      |      |

## MISSISSIPPI RIVER DELTA

07375800 TICKFAW RIVER NEAR LIVERPOOL, LA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP   |
|-------------|-------|-------|------|------|------|------|------|------|------|------|------|-------|
| 1           | 79    | 57    | 74   | 66   | 69   | 64   | 105  | 57   | 46   | 49   | 42   | 43    |
| 2           | 58    | 57    | 70   | 66   | 84   | 65   | 90   | 52   | 46   | 63   | 43   | 43    |
| 3           | 54    | 56    | 69   | 66   | 71   | 66   | 83   | 50   | 46   | 187  | 45   | 46    |
| 4           | 53    | 57    | 67   | 67   | 63   | 96   | 76   | 50   | 48   | 97   | 46   | 66    |
| 5           | 53    | 57    | 67   | 67   | 64   | 302  | 72   | 55   | 50   | 60   | 45   | 53    |
| 6           | 53    | 56    | 67   | 68   | 156  | 192  | 69   | 58   | 55   | 74   | 43   | 50    |
| 7           | 53    | 57    | 68   | 74   | 145  | 93   | 67   | 52   | 50   | 118  | 42   | 43    |
| 8           | 53    | 57    | 71   | 74   | 96   | 76   | 65   | 51   | 47   | 94   | 42   | 40    |
| 9           | 53    | 58    | 114  | 69   | 79   | 68   | 65   | 50   | 45   | 58   | 41   | 42    |
| 10          | 53    | 60    | 549  | 68   | 206  | 63   | 64   | 58   | 46   | 48   | 41   | 41    |
| 11          | 52    | 60    | 644  | 66   | 427  | 61   | 62   | 56   | 49   | 49   | 40   | 40    |
| 12          | 52    | 60    | 164  | 64   | 198  | 61   | 60   | 51   | 49   | 47   | 40   | 64    |
| 13          | 52    | 61    | 104  | 65   | 102  | 61   | 59   | 50   | 48   | 46   | 40   | 59    |
| 14          | 52    | 62    | 84   | 65   | 84   | 58   | 58   | 53   | 45   | 44   | 40   | 38    |
| 15          | 52    | 69    | 76   | 65   | 79   | 59   | 57   | 53   | 44   | 43   | 41   | 146   |
| 16          | 52    | 100   | 72   | 63   | 98   | 60   | 56   | 54   | 43   | 43   | 41   | 445   |
| 17          | 52    | 78    | 71   | 60   | 159  | 60   | 55   | 56   | 43   | 42   | 42   | 86    |
| 18          | 59    | 68    | 70   | 59   | 113  | 61   | 54   | 56   | 43   | 42   | 44   | 49    |
| 19          | 69    | 65    | 69   | 58   | 90   | 60   | 54   | 54   | 45   | 41   | 44   | 41    |
| 20          | 59    | 63    | 69   | 61   | 78   | 61   | 54   | 53   | 43   | 41   | 43   | 37    |
| 21          | 55    | 62    | 69   | 61   | 71   | 65   | 54   | 52   | 44   | 41   | 41   | 35    |
| 22          | 54    | 66    | 69   | 58   | 70   | 95   | 54   | 52   | 45   | 42   | 41   | 35    |
| 23          | 54    | 112   | 69   | 58   | 68   | 88   | 54   | 52   | 47   | 42   | 41   | 35    |
| 24          | 54    | 129   | 71   | 57   | 66   | 76   | 56   | 52   | 49   | 41   | 40   | 34    |
| 25          | 55    | 89    | 69   | 58   | 65   | 67   | 54   | 55   | 51   | 41   | 40   | 33    |
| 26          | 55    | 203   | 68   | 58   | 65   | 65   | 52   | 53   | 51   | 42   | 38   | 33    |
| 27          | 56    | 511   | 68   | 60   | 64   | 66   | 54   | 47   | 52   | 43   | 38   | 31    |
| 28          | 154   | 187   | 68   | 60   | 65   | 69   | 53   | 45   | 49   | 45   | 39   | 32    |
| 29          | 289   | 99    | 67   | 60   | ---  | 75   | 53   | 44   | 49   | 46   | 42   | 33    |
| 30          | 86    | 82    | 68   | 58   | ---  | 138  | 55   | 44   | 49   | 44   | 66   | 35    |
| 31          | 63    | ---   | 66   | 59   | ---  | 164  | ---  | 45   | ---  | 43   | 50   | ---   |
| TOTAL       | 2088  | 2798  | 3391 | 1958 | 2995 | 2655 | 1864 | 1610 | 1417 | 1756 | 1321 | 1808  |
| MEAN        | 67.4  | 93.3  | 109  | 63.2 | 107  | 85.6 | 62.1 | 51.9 | 47.2 | 56.6 | 42.6 | 60.3  |
| MAX         | 289   | 511   | 644  | 74   | 427  | 302  | 105  | 58   | 55   | 187  | 66   | 445   |
| MIN         | 52    | 56    | 66   | 57   | 63   | 58   | 52   | 44   | 43   | 41   | 38   | 31    |
| CFSM        | .75   | 1.04  | 1.22 | .71  | 1.19 | .95  | .69  | .58  | .53  | .63  | .48  | .67   |
| IN.         | .87   | 1.16  | 1.41 | .81  | 1.24 | 1.10 | .77  | .67  | .59  | .73  | .55  | .75   |
| CAL YR 1980 | TOTAL | 76154 | MEAN | 208  | MAX  | 6660 | MIN  | 51   | CFSM | 2.32 | IN   | 31.58 |
| WTR YR 1981 | TOTAL | 25661 | MEAN | 70.3 | MAX  | 644  | MIN  | 31   | CFSM | .78  | IN   | 10.64 |

## MISSISSIPPI RIVER DELTA

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07375800 TICKFAW RIVER NEAR LIVERPOOL, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 2.93 | 2.59 | 2.79 | 2.79 | 3.05 | 2.80 | 3.26 | 2.83 | 2.77 | 2.83 | ---  | 2.84 |
| 2    | 2.60 | 2.58 | 2.74 | 2.80 | 3.21 | 2.80 | 3.07 | 2.75 | 2.78 | 3.01 | ---  | 2.85 |
| 3    | 2.53 | 2.57 | 2.72 | 2.80 | 3.06 | 2.81 | 2.98 | 2.73 | 2.79 | 4.01 | ---  | 2.89 |
| 4    | 2.52 | 2.58 | 2.70 | 2.81 | 2.95 | 3.15 | 2.90 | 2.75 | 2.81 | 3.34 | ---  | 3.13 |
| 5    | 2.52 | 2.58 | 2.70 | 2.81 | 2.97 | 4.78 | 2.85 | 2.83 | 2.85 | 2.98 | ---  | 2.99 |
| 6    | 2.51 | 2.57 | 2.70 | 2.83 | 3.79 | 4.01 | 2.82 | 2.88 | 2.92 | 3.13 | ---  | 2.96 |
| 7    | 2.51 | 2.58 | 2.71 | 2.95 | 3.72 | 3.23 | 2.79 | 2.79 | 2.86 | 3.55 | ---  | 2.86 |
| 8    | 2.51 | 2.59 | 2.75 | 2.95 | 3.30 | 3.04 | 2.77 | 2.79 | 2.81 | 3.33 | ---  | 2.83 |
| 9    | 2.51 | 2.60 | 3.15 | 2.91 | 3.12 | 2.95 | 2.77 | 2.78 | 2.79 | 2.95 | ---  | 2.85 |
| 10   | 2.51 | 2.62 | 5.48 | 2.90 | 4.09 | 2.88 | 2.77 | 2.89 | 2.80 | 2.80 | ---  | 2.85 |
| 11   | 2.50 | 2.62 | 5.88 | 2.89 | 5.50 | 2.84 | 2.74 | 2.87 | 2.85 | 2.82 | ---  | 2.84 |
| 12   | 2.50 | 2.63 | 3.59 | 2.88 | 4.07 | 2.81 | 2.72 | 2.81 | 2.86 | 2.77 | ---  | 3.03 |
| 13   | 2.49 | 2.64 | 3.12 | 2.89 | 3.34 | 2.81 | 2.71 | 2.80 | 2.84 | 2.76 | ---  | 3.06 |
| 14   | 2.49 | 2.65 | 2.95 | 2.90 | 3.15 | 2.80 | 2.70 | 2.84 | 2.81 | 2.73 | ---  | 2.82 |
| 15   | 2.50 | 2.73 | 2.87 | 2.91 | 3.08 | 2.81 | 2.69 | 2.85 | 2.79 | 2.71 | ---  | 3.65 |
| 16   | 2.50 | 3.03 | 2.83 | 2.90 | 3.27 | 2.83 | 2.68 | 2.85 | 2.78 | 2.69 | ---  | 5.59 |
| 17   | 2.50 | 2.83 | 2.81 | 2.87 | 3.81 | 2.83 | 2.68 | 2.89 | 2.76 | 2.67 | ---  | 3.33 |
| 18   | 2.60 | 2.73 | 2.80 | 2.87 | 3.43 | 2.84 | 2.68 | 2.89 | 2.77 | 2.66 | ---  | 2.97 |
| 19   | 2.73 | 2.69 | 2.79 | 2.89 | 3.18 | 2.83 | 2.69 | 2.87 | 2.80 | 2.66 | ---  | 2.86 |
| 20   | 2.61 | 2.66 | 2.79 | 2.98 | 3.04 | 2.84 | 2.69 | 2.85 | 2.76 | 2.65 | ---  | 2.81 |
| 21   | 2.55 | 2.65 | 2.79 | 3.00 | 2.95 | 2.90 | 2.69 | 2.85 | 2.77 | 2.64 | ---  | 2.80 |
| 22   | 2.54 | 2.70 | 2.78 | 2.97 | 2.92 | 3.26 | 2.70 | 2.85 | 2.78 | ---  | 2.78 | 2.79 |
| 23   | 2.54 | 3.13 | 2.79 | 2.96 | 2.89 | 3.19 | 2.71 | 2.85 | 2.83 | ---  | 2.80 | 2.79 |
| 24   | 2.54 | 3.27 | 2.82 | 2.95 | 2.84 | 3.04 | 2.75 | 2.85 | 2.85 | ---  | 2.79 | 2.77 |
| 25   | 2.55 | 2.94 | 2.81 | 2.94 | 2.82 | 2.93 | 2.73 | 2.90 | 2.87 | ---  | 2.79 | 2.76 |
| 26   | 2.55 | 3.76 | 2.80 | 2.95 | 2.80 | 2.90 | 2.71 | 2.87 | 2.87 | ---  | 2.75 | 2.76 |
| 27   | 2.56 | 5.33 | 2.80 | 2.96 | 2.80 | 2.92 | 2.75 | 2.79 | 2.89 | ---  | 2.76 | 2.73 |
| 28   | 3.35 | 3.70 | 2.80 | 2.96 | 2.80 | 2.96 | 2.75 | 2.73 | 2.85 | ---  | 2.77 | 2.75 |
| 29   | 4.37 | 3.06 | 2.79 | 2.95 | ---  | 3.03 | 2.75 | 2.73 | 2.84 | ---  | 2.82 | 2.77 |
| 30   | 2.91 | 2.88 | 2.80 | 2.93 | ---  | 3.63 | 2.80 | 2.73 | 2.84 | ---  | 3.12 | 2.80 |
| 31   | 2.67 | ---  | 2.79 | 2.93 | ---  | 3.81 | ---  | 2.74 | ---  | ---  | 2.94 | ---  |
| MEAN | 2.65 | 2.88 | 3.02 | 2.90 | 3.28 | 3.07 | 2.78 | 2.82 | 2.82 | ---  | ---  | 2.99 |
| MAX  | 4.37 | 5.33 | 5.88 | 3.00 | 5.50 | 4.78 | 3.26 | 2.90 | 2.92 | 4.01 | 3.12 | 5.59 |
| MIN  | 2.49 | 2.57 | 2.70 | 2.79 | 2.80 | 2.80 | 2.68 | 2.73 | 2.76 | ---  | 2.75 | 2.73 |

07376000 TICKFAW RIVER AT HOLDEN, LA

LOCATION.--Lat 30°30'13", long 90°40'38", in SE1/4NE1/4 sec. 26, T. 6 S., R. 5 E., St. Helena meridian, Livingston Parish, Hydrologic Unit 08070203, near left bank on downstream side of bridge on U.S. Highway 190, 0.5 mi (0.8 km) west of Holden, and 5.1 mi (8.2 km) upstream from Big Branch.

DRAINAGE AREA.--247 mi<sup>2</sup> (640 km<sup>2</sup>).

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 1711: Drainage year.

GAGE.--Water-stage recorder. Datum of gage is 19.15 ft (5.837 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 13, 1944, nonrecording gage, Sept. 14, 1944, to June 14, 1948, water-stage recorder, June 15, 1949, to Dec. 9, 1949, nonrecording gage at same site and datum.

REMARKS.--Records good. Records of dissolved oxygen and water temperature for the 1981 water year are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--41 years, 368 ft<sup>3</sup>/s (10.42 m<sup>3</sup>/s), 20.23 in/yr (5.14 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,000 ft<sup>3</sup>/s (538 m<sup>3</sup>/s) May 23, 1974, gage height, 20.37 ft (6.209 m); minimum discharge, 65 ft<sup>3</sup>/s (1.84 m<sup>3</sup>/s) Oct. 1, 2, 3, 4, 1969; minimum gage height, 0.93 ft (0.283 m) Sept. 26, 27, Oct. 21, 22, 23, 24, 28, 29, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,710 ft<sup>3</sup>/s (48.4 m<sup>3</sup>/s) Feb. 12, gage height, 7.98 ft (2.432 m), no peak above base of 2,000 ft<sup>3</sup>/s (57 m<sup>3</sup>/s); minimum discharge, 99 ft<sup>3</sup>/s (2.80 m<sup>3</sup>/s) Aug. 28; minimum gage height, 0.96 ft (0.293 m) Aug. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC  | JAN      | FEB       | MAR     | APR       | MAY      | JUN  | JUL  | AUG  | SEP  |
|-------------|-------|--------|------|----------|-----------|---------|-----------|----------|------|------|------|------|
| 1           | 157   | 206    | 240  | 151      | 147       | 177     | 644       | 141      | 178  | 134  | 117  | 202  |
| 2           | 183   | 164    | 202  | 150      | 159       | 173     | 470       | 234      | 241  | 141  | 117  | 148  |
| 3           | 185   | 152    | 181  | 149      | 191       | 170     | 365       | 166      | 192  | 179  | 116  | 197  |
| 4           | 150   | 145    | 169  | 148      | 198       | 177     | 315       | 145      | 159  | 369  | 116  | 378  |
| 5           | 139   | 141    | 162  | 148      | 210       | 213     | 284       | 278      | 147  | 362  | 123  | 382  |
| 6           | 134   | 139    | 158  | 148      | 973       | 284     | 258       | 433      | 250  | 443  | 115  | 234  |
| 7           | 133   | 137    | 154  | 152      | 1020      | 418     | 238       | 339      | 486  | 343  | 116  | 163  |
| 8           | 132   | 135    | 152  | 154      | 779       | 340     | 225       | 224      | 341  | 260  | 114  | 140  |
| 9           | 131   | 135    | 153  | 161      | 454       | 249     | 214       | 178      | 230  | 262  | 114  | 129  |
| 10          | 131   | 134    | 221  | 158      | 740       | 211     | 205       | 164      | 181  | 233  | 111  | 122  |
| 11          | 130   | 133    | 442  | 153      | 1410      | 190     | 199       | 154      | 248  | 197  | 110  | 118  |
| 12          | 129   | 133    | 537  | 150      | 1660      | 177     | 192       | 153      | 631  | 171  | 108  | 117  |
| 13          | 128   | 132    | 560  | 148      | 1310      | 171     | 187       | 149      | 473  | 168  | 107  | 116  |
| 14          | 127   | 132    | 360  | 148      | 595       | 165     | 182       | 145      | 353  | 154  | 108  | 121  |
| 15          | 127   | 132    | 262  | 148      | 398       | 162     | 176       | 146      | 237  | 147  | 108  | 287  |
| 16          | 128   | 132    | 224  | 147      | 350       | 157     | 170       | 142      | 185  | 141  | 106  | 351  |
| 17          | 127   | 139    | 201  | 147      | 353       | 154     | 164       | 143      | 164  | 137  | 106  | 430  |
| 18          | 141   | 157    | 187  | 145      | 469       | 150     | 160       | 141      | 155  | 134  | 110  | 460  |
| 19          | 169   | 158    | 177  | 144      | 437       | 147     | 154       | 141      | 148  | 131  | 109  | 270  |
| 20          | 179   | 145    | 170  | 146      | 350       | 146     | 152       | 139      | 143  | 128  | 115  | 181  |
| 21          | 172   | 140    | 166  | 148      | 296       | 147     | 150       | 136      | 140  | 127  | 106  | 154  |
| 22          | 148   | 143    | 162  | 153      | 263       | 154     | 148       | 134      | 136  | 126  | 103  | 142  |
| 23          | 140   | 165    | 160  | 155      | 241       | 226     | 146       | 133      | 133  | 124  | 101  | 137  |
| 24          | 137   | 190    | 161  | 152      | 228       | 281     | 144       | 133      | 156  | 122  | 102  | 133  |
| 25          | 133   | 213    | 161  | 149      | 214       | 227     | 142       | 140      | 219  | 121  | 101  | 130  |
| 26          | 131   | 287    | 160  | 148      | 201       | 195     | 142       | 175      | 181  | 119  | 101  | 129  |
| 27          | 133   | 381    | 158  | 146      | 191       | 173     | 137       | 207      | 161  | 117  | 101  | 127  |
| 28          | 157   | 447    | 155  | 145      | 183       | 162     | 134       | 166      | 147  | 119  | 100  | 126  |
| 29          | 179   | 462    | 154  | 144      | ---       | 159     | 134       | 145      | 148  | 126  | 114  | 125  |
| 30          | 213   | 338    | 153  | 143      | ---       | 228     | 134       | 139      | 138  | 127  | 157  | 124  |
| 31          | 299   | ---    | 152  | 143      | ---       | 654     | ---       | 137      | ---  | 125  | 155  | ---  |
| TOTAL       | 4702  | 5647   | 6654 | 4621     | 14020     | 6637    | 6365      | 5400     | 6701 | 5587 | 3487 | 5874 |
| MEAN        | 152   | 188    | 215  | 149      | 501       | 214     | 212       | 174      | 223  | 180  | 112  | 196  |
| MAX         | 299   | 462    | 560  | 161      | 1660      | 654     | 644       | 433      | 631  | 443  | 157  | 460  |
| MIN         | 127   | 132    | 152  | 143      | 147       | 146     | 134       | 133      | 133  | 117  | 100  | 116  |
| CFSM        | .62   | .76    | .87  | .60      | 2.03      | .87     | .86       | .70      | .90  | .73  | .45  | .79  |
| IN.         | .71   | .85    | 1.00 | .70      | 2.11      | 1.00    | .96       | .81      | 1.01 | .84  | .53  | .88  |
| CAL YR 1980 | TOTAL | 216744 |      | MEAN 592 | MAX 11500 | MIN 120 | CFSM 2.40 | IN 32.64 |      |      |      |      |
| WTR YR 1981 | TOTAL | 75695  |      | MEAN 207 | MAX 1660  | MIN 100 | CFSM .84  | IN 11.40 |      |      |      |      |

07376000 TICKFAW RIVER AT HOLDEN, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 1.70 | 2.08 | 2.32 | 1.66 | 1.61 | 1.87 | 4.05 | 1.41 | 1.60 | 1.22 | 1.11 | 1.89 |
| 2    | 1.91 | 1.77 | 2.05 | 1.65 | 1.72 | 1.84 | 3.16 | 2.12 | 2.09 | 1.29 | 1.11 | 1.45 |
| 3    | 1.93 | 1.66 | 1.90 | 1.63 | 1.98 | 1.82 | 2.56 | 1.62 | 1.74 | 1.59 | 1.10 | 1.77 |
| 4    | 1.65 | 1.60 | 1.81 | 1.62 | 2.03 | 1.87 | 2.27 | 1.44 | 1.48 | 2.87 | 1.10 | 3.01 |
| 5    | 1.54 | 1.56 | 1.75 | 1.62 | 2.09 | 2.13 | 2.09 | 2.38 | 1.36 | 2.82 | 1.18 | 3.04 |
| 6    | 1.49 | 1.54 | 1.71 | 1.62 | 5.79 | 2.60 | 1.94 | 3.37 | 2.10 | 3.32 | 1.09 | 2.08 |
| 7    | 1.48 | 1.52 | 1.68 | 1.66 | 5.99 | 3.44 | 1.82 | 2.78 | 3.57 | 2.72 | 1.12 | 1.57 |
| 8    | 1.47 | 1.50 | 1.65 | 1.68 | 5.11 | 2.96 | 1.74 | 2.04 | 2.70 | 2.19 | 1.10 | 1.35 |
| 9    | 1.46 | 1.49 | 1.67 | 1.74 | 3.64 | 2.38 | 1.69 | 1.71 | 1.99 | 2.20 | 1.10 | 1.24 |
| 10   | 1.46 | 1.49 | 2.18 | 1.71 | 4.85 | 2.12 | 1.65 | 1.58 | 1.63 | 2.01 | 1.07 | 1.16 |
| 11   | 1.45 | 1.48 | 3.56 | 1.67 | 7.16 | 1.97 | 1.62 | 1.50 | 2.07 | 1.76 | 1.06 | 1.11 |
| 12   | 1.44 | 1.48 | 4.10 | 1.64 | 7.84 | 1.88 | 1.59 | 1.49 | 4.30 | 1.57 | 1.04 | 1.09 |
| 13   | 1.43 | 1.47 | 4.21 | 1.63 | 6.82 | 1.82 | 1.57 | 1.45 | 3.48 | 1.55 | 1.03 | 1.07 |
| 14   | 1.42 | 1.47 | 3.08 | 1.62 | 4.34 | 1.78 | ---  | 1.41 | 2.76 | 1.43 | 1.05 | 1.12 |
| 15   | 1.42 | 1.46 | 2.47 | 1.62 | 3.32 | 1.75 | ---  | 1.42 | 2.02 | 1.36 | 1.05 | 2.37 |
| 16   | 1.42 | 1.47 | 2.21 | 1.62 | 3.02 | 1.71 | ---  | 1.38 | 1.65 | 1.31 | 1.03 | 2.79 |
| 17   | 1.42 | 1.54 | 2.05 | 1.61 | 3.04 | 1.68 | ---  | 1.37 | 1.48 | 1.27 | 1.03 | 3.27 |
| 18   | 1.55 | 1.70 | 1.95 | 1.60 | 3.73 | 1.65 | ---  | 1.36 | 1.39 | 1.24 | 1.08 | 3.43 |
| 19   | 1.81 | 1.72 | 1.88 | 1.58 | 3.55 | 1.62 | ---  | 1.36 | 1.34 | 1.21 | 1.08 | 2.24 |
| 20   | 1.89 | 1.59 | 1.82 | 1.60 | 3.02 | 1.61 | ---  | 1.33 | 1.30 | 1.19 | 1.16 | 1.64 |
| 21   | 1.83 | 1.55 | 1.78 | 1.63 | 2.69 | 1.62 | ---  | 1.30 | 1.29 | 1.18 | 1.06 | 1.42 |
| 22   | 1.62 | 1.57 | 1.75 | 1.67 | 2.47 | 1.68 | ---  | 1.28 | 1.26 | 1.15 | 1.01 | 1.31 |
| 23   | 1.55 | 1.77 | 1.73 | 1.69 | 2.33 | 2.21 | ---  | 1.27 | 1.24 | 1.14 | 1.00 | 1.25 |
| 24   | 1.52 | 1.97 | 1.74 | 1.66 | 2.24 | 2.59 | ---  | 1.26 | 1.45 | 1.13 | 1.01 | 1.20 |
| 25   | 1.48 | 2.14 | 1.74 | 1.64 | 2.14 | 2.23 | ---  | 1.32 | 1.95 | 1.12 | .99  | 1.17 |
| 26   | 1.46 | 2.62 | 1.74 | 1.62 | 2.05 | 2.01 | 1.40 | 1.63 | 1.62 | 1.10 | .99  | 1.14 |
| 27   | 1.48 | 3.21 | 1.72 | 1.61 | 1.98 | 1.84 | 1.38 | 1.86 | 1.46 | 1.09 | .98  | 1.12 |
| 28   | 1.70 | 3.61 | 1.69 | 1.60 | 1.92 | 1.75 | 1.35 | 1.55 | 1.34 | 1.11 | .97  | 1.10 |
| 29   | 1.88 | 3.69 | 1.68 | 1.59 | ---  | 1.72 | 1.34 | 1.37 | 1.34 | 1.19 | 1.12 | 1.09 |
| 30   | 2.13 | 2.94 | 1.67 | 1.57 | ---  | 1.95 | 1.34 | 1.31 | 1.26 | 1.20 | 1.55 | 1.07 |
| 31   | 2.70 | ---  | 1.67 | 1.57 | ---  | 4.06 | ---  | 1.28 | ---  | 1.18 | 1.49 | ---  |
| MEAN | 1.64 | 1.89 | 2.10 | 1.63 | 3.52 | 2.07 | ---  | 1.61 | 1.88 | 1.57 | 1.09 | 1.69 |
| MAX  | 2.70 | 3.69 | 4.21 | 1.74 | 7.84 | 4.06 | 4.05 | 3.37 | 4.30 | 3.32 | 1.55 | 3.43 |
| MIN  | 1.42 | 1.46 | 1.65 | 1.57 | 1.61 | 1.61 | 1.34 | 1.26 | 1.24 | 1.09 | .97  | 1.07 |



## MISSISSIPPI RIVER DELTA

07376500 NATALBANY RIVER AT BAPTIST, LA.

LOCATION.--Lat 30°30'15", long 90°32'45", in NE1/4NW1/4 sec.30, T. 6 S., R. 7 E., St. Helena meridian, Tangipahoa Parish, Hydrologic Unit 08070203, near right bank on downstream side of bridge on U.S. Highway 190, 0.7 mi (1.1 km) downstream from Still Branch, and 0.7 mi (1.1 km) west of Baptist.

DRAINAGE AREA.--79.5 mi<sup>2</sup> (205.9 km<sup>2</sup>).

PERIOD OF RECORD.--August 1943 to current year.

REVISED RECORDS.--WSP 1057: 1943.

GAGE.--Water-stage recorder. Datum of gage is 11.28 ft (3.438 m) National Geodetic Vertical Datum of 1929. Prior to June 4, 1948, nonrecording gage, and June 4, 1948, to Apr. 13, 1950, water-stage recorder at old highway bridge 100 ft (30 m) upstream at same datum.

REMARKS.--Records good. Records of dissolved oxygen and water temperatures for the water year 1981 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--38 years, 115 ft<sup>3</sup>/s (3.257 m<sup>3</sup>/s), 19.64 in/yr (499 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,550 ft<sup>3</sup>/s (270 m<sup>3</sup>/s) May 3, 1953, gage height, 19.73 ft (6.014 m); minimum discharge, 1.8 ft<sup>3</sup>/s (0.051 m<sup>3</sup>/s) Nov. 2-5, 1963; minimum gage height, 2.78 ft (0.847 m) Oct. 14, 15, 16, 17, 18, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,700 ft<sup>3</sup>/s or 48.1 m<sup>3</sup>/s (revised) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|
| Feb. 10 | 1745 | *2540 71.9                                            | *13.72 4.182            |

Minimum discharge, 7.4 ft<sup>3</sup>/s (0.21 m<sup>3</sup>/s) Aug. 26, 27, 28; minimum gage height, 2.78 ft (0.847 m) Oct. 14, 15, 16, 17, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN   | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG   | SEP   |
|-------|------|------|-------|-------|------|------|------|------|------|------|-------|-------|
| 1     | 30   | 15   | 17    | 9.0   | 44   | 27   | 76   | 139  | 52   | 18   | 11    | 14    |
| 2     | 20   | 14   | 15    | 9.0   | 51   | 26   | 53   | 133  | 150  | 33   | 26    | 13    |
| 3     | 15   | 14   | 14    | 9.1   | 20   | 24   | 43   | 39   | 82   | 111  | 19    | 111   |
| 4     | 13   | 15   | 13    | 9.3   | 13   | 28   | 38   | 27   | 42   | 81   | 16    | 255   |
| 5     | 12   | 14   | 12    | 9.7   | 112  | 63   | 34   | 600  | 29   | 67   | 13    | 63    |
| 6     | 11   | 14   | 12    | 11    | 1420 | 41   | 31   | 192  | 169  | 396  | 11    | 26    |
| 7     | 11   | 13   | 11    | 14    | 388  | 33   | 28   | 75   | 174  | 141  | 10    | 17    |
| 8     | 11   | 13   | 11    | 12    | 139  | 28   | 27   | 44   | 95   | 78   | 12    | 14    |
| 9     | 11   | 13   | 11    | 11    | 71   | 25   | 25   | 33   | 48   | 44   | 15    | 12    |
| 10    | 12   | 13   | 127   | 9.8   | 1780 | 24   | 24   | 30   | 33   | 32   | 11    | 11    |
| 11    | 11   | 13   | 72    | 9.6   | 1480 | 23   | 23   | 26   | 73   | 29   | 10    | 11    |
| 12    | 11   | 12   | 32    | 9.4   | 350  | 22   | 23   | 22   | 164  | 34   | 9.5   | 10    |
| 13    | 10   | 12   | 22    | 9.4   | 128  | 22   | 22   | 20   | 77   | 45   | 9.4   | 15    |
| 14    | 10   | 12   | 16    | 9.3   | 85   | 22   | 21   | 19   | 42   | 39   | 9.0   | 12    |
| 15    | 10   | 13   | 14    | 9.2   | 73   | 22   | 20   | 19   | 30   | 27   | 9.0   | 12    |
| 16    | 11   | 13   | 12    | 9.1   | 87   | 22   | 20   | 17   | 25   | 22   | 18    | 16    |
| 17    | 11   | 15   | 11    | 9.1   | 132  | 21   | 19   | 16   | 22   | 19   | 20    | 25    |
| 18    | 26   | 13   | 10    | 9.1   | 102  | 21   | 19   | 15   | 20   | 17   | 10    | 14    |
| 19    | 97   | 12   | 9.8   | 9.3   | 73   | 21   | 18   | 16   | 19   | 17   | 9.7   | 11    |
| 20    | 30   | 12   | 9.5   | 9.8   | 58   | 21   | 18   | 15   | 18   | 16   | 10    | 10    |
| 21    | 18   | 12   | 9.5   | 9.8   | 49   | 23   | 18   | 15   | 17   | 15   | 9.4   | 9.6   |
| 22    | 14   | 12   | 9.5   | 9.8   | 45   | 37   | 18   | 14   | 17   | 14   | 8.4   | 9.3   |
| 23    | 15   | 11   | 9.2   | 9.5   | 41   | 50   | 20   | 14   | 17   | 14   | 8.0   | 9.0   |
| 24    | 21   | 11   | 12    | 9.1   | 37   | 36   | 22   | 14   | 52   | 14   | 7.9   | 8.9   |
| 25    | 14   | 11   | 11    | 9.1   | 34   | 32   | 19   | 60   | 68   | 13   | 7.8   | 8.7   |
| 26    | 13   | 90   | 10    | 8.9   | 32   | 28   | 17   | 290  | 58   | 13   | 7.6   | 8.5   |
| 27    | 14   | 54   | 9.8   | 8.9   | 30   | 26   | 16   | 86   | 32   | 13   | 7.5   | 8.1   |
| 28    | 150  | 35   | 9.5   | 8.9   | 28   | 25   | 15   | 38   | 24   | 13   | 7.6   | 8.1   |
| 29    | 38   | 25   | 9.3   | 8.7   | ---  | 31   | 15   | 24   | 21   | 14   | 27    | 8.0   |
| 30    | 27   | 20   | 9.3   | 8.5   | ---  | 145  | 15   | 18   | 18   | 20   | 50    | 7.8   |
| 31    | 20   | ---  | 9.3   | 8.6   | ---  | 145  | ---  | 16   | ---  | 15   | 17    | ---   |
| TOTAL | 717  | 546  | 559.7 | 297.0 | 6902 | 1114 | 757  | 2086 | 1688 | 1424 | 416.8 | 758.0 |
| MEAN  | 23.1 | 18.2 | 18.1  | 9.58  | 247  | 35.9 | 25.2 | 67.3 | 56.3 | 45.9 | 13.4  | 25.3  |
| MAX   | 150  | 90   | 127   | 14    | 1780 | 145  | 76   | 600  | 174  | 396  | 50    | 255   |
| MIN   | 10   | 11   | 9.2   | 8.5   | 13   | 21   | 15   | 14   | 17   | 13   | 7.5   | 7.8   |
| CFSM  | .29  | .23  | .23   | .12   | 3.11 | .45  | .32  | .85  | .71  | .58  | .17   | .32   |
| IN.   | .34  | .26  | .26   | .14   | 3.23 | .52  | .35  | .98  | .79  | .67  | .20   | .35   |

|             |       |         |      |      |     |      |     |     |      |      |    |       |
|-------------|-------|---------|------|------|-----|------|-----|-----|------|------|----|-------|
| CAL YR 1980 | TOTAL | 56037.7 | MEAN | 153  | MAX | 2980 | MIN | 9.2 | CFSM | 1.93 | IN | 26.22 |
| WTR YR 1981 | TOTAL | 17265.5 | MEAN | 47.3 | MAX | 1780 | MIN | 7.5 | CFSM | .60  | IN | 8.08  |

07376500 NATALBANY RIVER AT BAPTIST, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB   | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|-------|------|------|------|------|------|------|------|
| 1    | 3.35 | 2.88 | ---  | ---  | 3.52  | ---  | 3.85 | 4.42 | 3.52 | 3.05 | 2.93 | 3.13 |
| 2    | 3.13 | 2.85 | ---  | ---  | 3.80  | ---  | 3.48 | 4.51 | 4.76 | 3.36 | 3.28 | 3.11 |
| 3    | 2.98 | 2.87 | ---  | ---  | 3.25  | 3.10 | 3.31 | 3.40 | 4.10 | 4.39 | 3.17 | 4.36 |
| 4    | 2.92 | 2.89 | ---  | ---  | 3.06  | 3.18 | 3.21 | 3.16 | 3.53 | 4.09 | 3.10 | 5.60 |
| 5    | 2.88 | 2.88 | ---  | ---  | 3.83  | 3.79 | 3.15 | 7.44 | 3.28 | 3.85 | 3.03 | 3.99 |
| 6    | 2.86 | 2.87 | ---  | ---  | 11.19 | 3.44 | 3.09 | 5.10 | 4.66 | 6.56 | 2.96 | 3.41 |
| 7    | 2.85 | 2.87 | ---  | 3.03 | 6.50  | 3.26 | 3.04 | 3.97 | 4.99 | 4.71 | 2.93 | 3.21 |
| 8    | 2.85 | 2.87 | ---  | 2.97 | 4.74  | 3.16 | 3.02 | 3.50 | 4.25 | 4.06 | 2.98 | 3.12 |
| 9    | 2.82 | 2.86 | 2.94 | ---  | 4.08  | 3.09 | 3.00 | 3.29 | 3.62 | 3.58 | 3.09 | 3.07 |
| 10   | 2.86 | 2.86 | 4.54 | ---  | 11.42 | 3.05 | 2.98 | 3.24 | 3.36 | 3.37 | 2.97 | 3.04 |
| 11   | 2.83 | 2.86 | 4.07 | ---  | 11.12 | 3.04 | 2.96 | 3.15 | 3.96 | 3.30 | 2.94 | 3.02 |
| 12   | 2.83 | 2.85 | 3.49 | ---  | 6.23  | 3.02 | 2.96 | 3.08 | 4.91 | 3.40 | 2.93 | 3.01 |
| 13   | 2.80 | 2.85 | 3.28 | ---  | 4.57  | 3.02 | 2.95 | 3.03 | 4.04 | 3.59 | 2.93 | 3.13 |
| 14   | 2.78 | 2.87 | 3.16 | ---  | 4.11  | 3.00 | 2.94 | 3.00 | 3.53 | 3.48 | 2.92 | 3.07 |
| 15   | 2.78 | 2.89 | 3.09 | ---  | 3.95  | 2.99 | 2.93 | 3.00 | 3.31 | 3.26 | 2.92 | 3.07 |
| 16   | 2.74 | 2.88 | 3.04 | ---  | 4.13  | 2.98 | 2.92 | 2.96 | 3.20 | 3.16 | 3.10 | 3.18 |
| 17   | 2.79 | 2.95 | 3.00 | ---  | 4.60  | 2.97 | 2.91 | 2.94 | 3.14 | 3.10 | 3.22 | 3.38 |
| 18   | 3.09 | 2.92 | 2.97 | ---  | 4.30  | 2.96 | 2.90 | 2.93 | 3.10 | 3.06 | 2.97 | 3.12 |
| 19   | 4.25 | 2.89 | 2.95 | ---  | 3.96  | 2.95 | 2.90 | 2.94 | 3.07 | 3.04 | 2.96 | 3.04 |
| 20   | 3.27 | ---  | 2.93 | ---  | 3.74  | 2.95 | 2.89 | 2.91 | 3.05 | 3.02 | 2.99 | 3.01 |
| 21   | 2.99 | ---  | 2.91 | ---  | 3.60  | 2.97 | 2.89 | 2.91 | 3.03 | 3.01 | 2.96 | 2.99 |
| 22   | 2.89 | ---  | 2.91 | ---  | 3.53  | 3.26 | 2.90 | 2.90 | 3.02 | 3.00 | 2.93 | 2.97 |
| 23   | 2.90 | ---  | 2.90 | 2.94 | 3.46  | 3.49 | 2.94 | 2.90 | 3.03 | 2.99 | 2.92 | 2.96 |
| 24   | 3.05 | ---  | 3.00 | 2.93 | 3.39  | 3.23 | 3.02 | 2.89 | 3.61 | 2.98 | 2.91 | 2.96 |
| 25   | 2.84 | ---  | 2.99 | 2.92 | 3.33  | 3.13 | 2.95 | 3.47 | 3.93 | 2.96 | 2.91 | 2.95 |
| 26   | 2.84 | ---  | ---  | 2.91 | 3.29  | 3.06 | 2.90 | 5.87 | 3.79 | 2.96 | 2.90 | 2.94 |
| 27   | 2.85 | ---  | ---  | 2.91 | ---   | 3.01 | 2.88 | 4.12 | 3.35 | 2.97 | 2.89 | 2.92 |
| 28   | ---  | ---  | ---  | 2.91 | ---   | 2.98 | 2.87 | 3.43 | 3.19 | 2.97 | 2.90 | 2.92 |
| 29   | 3.39 | ---  | ---  | 2.91 | ---   | 3.08 | 2.87 | 3.15 | 3.11 | 3.03 | 3.26 | 2.92 |
| 30   | 3.18 | ---  | ---  | 2.90 | ---   | 4.57 | 2.87 | 3.03 | 3.06 | 3.12 | 3.79 | 2.91 |
| 31   | 3.00 | ---  | ---  | 2.90 | ---   | 4.63 | ---  | 2.97 | ---  | 3.04 | 3.20 | ---  |
| MEAN | ---  | ---  | ---  | ---  | ---   | ---  | 3.02 | 3.54 | 3.62 | 3.43 | 3.03 | 3.22 |
| MAX  | 4.25 | ---  | 4.54 | 3.03 | 11.42 | 4.63 | 3.85 | 7.44 | 4.99 | 6.56 | 3.79 | 5.60 |
| MIN  | 2.78 | ---  | ---  | 2.90 | 3.06  | 2.95 | 2.87 | 2.89 | 3.02 | 2.96 | 2.89 | 2.91 |

## MISSISSIPPI RIVER DELTA

07377000 AMITE RIVER NEAR DARLINGTON, LA

LOCATION.--Lat 30°53'20", long 90°50'40", in lot 72, T. 2 S., R. 4 E., St. Helena meridian, St. Helena Parish, Hydrologic Unit 08070202, near center of span on downstream side of bridge on State Highway 10, 1.5 mi (2.4 km) upstream from Collins Creek, and 4.0 mi (6.4 km) west of Darlington.

DRAINAGE AREA.--580 mi<sup>2</sup> (1,504 km<sup>2</sup>).

PERIOD OF RECORD.--March 1949 to September 1950 (annual maximum), October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 145.81 ft (44.443 m) National Geodetic Vertical Datum of 1929. Jan. 13, 1951, to May 28, 1963, water-stage recorder at former channel 700- ft (210 m) to the left; and July 30, 1963, to Feb. 12, 1964, nonrecording gage at present site. Prior to Oct. 1, 1963, at datum 2.99 ft (0.911 m) higher.

AVERAGE DISCHARGE.--31 years, 900 ft<sup>3</sup>/s (25.49 m<sup>3</sup>/s), 21.07 in/yr (535 mm/yr).

REMARKS.--Records good. Records of dissolved oxygen and water temperature for water year 1981 are published under miscellaneous water-quality sites in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,400 ft<sup>3</sup>/s (2,160 m<sup>3</sup>/s) Apr. 22, 1977, gage height, 21.76 ft (6.632 m); minimum, 188 ft<sup>3</sup>/s (5.32 m<sup>3</sup>/s) Oct. 18, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,000 ft<sup>3</sup>/s or 227 m<sup>3</sup>/s (revised) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|
| Dec. 11 | 0215 | *8320 236                                             | *12.85 3.917            |

Minimum discharge, 268 ft<sup>3</sup>/s (7.59 m<sup>3</sup>/s) Sept. 30; minimum gage height, 3.31 ft (1.009 m) Aug. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 1     | 650   | 601   | 793   | 505   | 502   | 522   | 1880  | 498   | 382   | 345   | 299  | 314  |
| 2     | 495   | 556   | 706   | 497   | 719   | 517   | 4110  | 395   | 389   | 493   | 357  | 291  |
| 3     | 451   | 529   | 645   | 491   | 712   | 509   | 2470  | 368   | 401   | 2630  | 437  | 327  |
| 4     | 427   | 509   | 606   | 489   | 596   | 696   | 1110  | 360   | 1060  | 2270  | 350  | 399  |
| 5     | 414   | 491   | 585   | 484   | 575   | 4190  | 832   | 582   | 737   | 1010  | 309  | 425  |
| 6     | 408   | 477   | 568   | 488   | 1440  | 4670  | 682   | 712   | 747   | 1030  | 297  | 337  |
| 7     | 415   | 472   | 554   | 581   | 1670  | 2650  | 603   | 463   | 548   | 871   | 297  | 312  |
| 8     | 415   | 466   | 543   | 628   | 1230  | 1200  | 563   | 408   | 463   | 798   | 299  | 293  |
| 9     | 419   | 462   | 991   | 552   | 924   | 917   | 532   | 389   | 415   | 538   | 285  | 287  |
| 10    | 420   | 459   | 6930  | 519   | 1460  | 777   | 508   | 406   | 400   | 438   | 279  | 283  |
| 11    | 418   | 455   | 7150  | 502   | 3310  | 697   | 486   | 546   | 409   | 414   | 278  | 279  |
| 12    | 419   | 447   | 3400  | 491   | 2210  | 641   | 464   | 411   | 393   | 410   | 278  | 279  |
| 13    | 416   | 442   | 1440  | 484   | 1260  | 609   | 449   | 381   | 388   | 382   | 279  | 293  |
| 14    | 414   | 449   | 1090  | 486   | 950   | 585   | 435   | 379   | 403   | 362   | 280  | 293  |
| 15    | 415   | 1460  | 914   | 490   | 841   | 564   | 423   | 391   | 387   | 350   | 298  | 583  |
| 16    | 414   | 2420  | 814   | 485   | 832   | 545   | 412   | 391   | 370   | 334   | 314  | 613  |
| 17    | 415   | 1020  | 743   | 474   | 1020  | 526   | 407   | 400   | 360   | 333   | 307  | 460  |
| 18    | 452   | 991   | 685   | 467   | 967   | 531   | 401   | 392   | 350   | 332   | 331  | 328  |
| 19    | 552   | 771   | 646   | 468   | 851   | 507   | 395   | 377   | 348   | 321   | 307  | 293  |
| 20    | 519   | 633   | 614   | 524   | 760   | 490   | 388   | 367   | 343   | 310   | 297  | 285  |
| 21    | 470   | 576   | 588   | 624   | 694   | 485   | 382   | 359   | 340   | 308   | 284  | 284  |
| 22    | 441   | 559   | 571   | 577   | 663   | 647   | 378   | 357   | 334   | 302   | 279  | 280  |
| 23    | 433   | 2090  | 564   | 532   | 646   | 910   | 395   | 355   | 364   | 299   | 466  | 283  |
| 24    | 430   | 3260  | 566   | 517   | 604   | 884   | 430   | 355   | 388   | 297   | 427  | 279  |
| 25    | 422   | 1620  | 570   | 508   | 575   | 672   | 420   | 358   | 528   | 294   | 298  | 277  |
| 26    | 417   | 2540  | 551   | 500   | 557   | 579   | 388   | 428   | 1380  | 299   | 281  | 275  |
| 27    | 421   | 4520  | 537   | 495   | 543   | 536   | 378   | 1010  | 695   | 297   | 276  | 274  |
| 28    | 4030  | 2500  | 530   | 494   | 530   | 511   | 369   | 697   | 493   | 307   | 274  | 273  |
| 29    | 3610  | 1310  | 530   | 491   | ---   | 519   | 366   | 470   | 388   | 304   | 301  | 270  |
| 30    | 1070  | 941   | 519   | 481   | ---   | 881   | 374   | 400   | 358   | 313   | 351  | 269  |
| 31    | 713   | ---   | 513   | 477   | ---   | 1160  | ---   | 377   | ---   | 311   | 338  | ---  |
| TOTAL | 21405 | 34026 | 36456 | 15801 | 27641 | 30127 | 21430 | 13782 | 14561 | 17302 | 9753 | 9738 |
| MEAN  | 690   | 1134  | 1176  | 510   | 987   | 972   | 714   | 445   | 485   | 558   | 315  | 325  |
| MAX   | 4030  | 4520  | 7150  | 628   | 3310  | 4670  | 4110  | 1010  | 1380  | 2630  | 466  | 613  |
| MIN   | 408   | 442   | 513   | 467   | 502   | 485   | 366   | 355   | 334   | 294   | 274  | 269  |
| CFSM  | 1.19  | 1.96  | 2.03  | .88   | 1.70  | 1.68  | 1.23  | .77   | .84   | .96   | .54  | .56  |
| IN.   | 1.37  | 2.18  | 2.34  | 1.01  | 1.77  | 1.93  | 1.37  | .88   | .93   | 1.11  | .63  | .62  |

CAL YR 1980 TOTAL 611321 MEAN 1670 MAX 35100 MIN 399 CFSM 2.88 IN 39.21  
WTR YR 1981 TOTAL 252022 MEAN 690 MAX 7150 MIN 269 CFSM 1.19 IN 16.16

07377000 AMITE RIVER NEAR DARLINGTON, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC   | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|-------|------|------|------|------|------|------|------|------|------|
| 1    | 4.51 | 4.15 | 4.55  | 3.91 | 3.91 | 3.96 | 6.20 | 3.95 | 3.61 | 3.51 | 3.41 | 3.51 |
| 2    | 4.04 | 4.04 | 4.37  | 3.89 | 4.39 | 3.94 | 8.89 | 3.68 | 3.64 | 3.87 | 3.59 | 3.42 |
| 3    | 3.88 | 3.97 | 4.25  | 3.88 | 4.38 | 3.92 | 7.13 | 3.60 | 3.67 | 7.30 | 3.83 | 3.55 |
| 4    | 3.79 | 3.92 | 4.17  | 3.87 | 4.14 | 4.30 | 5.15 | 3.57 | 5.04 | 6.83 | 3.59 | 3.77 |
| 5    | 3.75 | 3.88 | 4.11  | 3.86 | 4.09 | 8.95 | 4.64 | 4.10 | 4.45 | 4.98 | 3.46 | 3.84 |
| 6    | 3.72 | 3.84 | 4.07  | 3.87 | 5.63 | 9.45 | 4.36 | 4.41 | 4.47 | 5.02 | 3.41 | 3.59 |
| 7    | 3.73 | 3.83 | 4.04  | 4.10 | 6.04 | 7.26 | 4.20 | 3.86 | 4.04 | 4.72 | 3.41 | 3.51 |
| 8    | 3.72 | 3.81 | 4.01  | 4.21 | 5.36 | 5.29 | 4.10 | 3.72 | 3.83 | 4.58 | 3.42 | 3.44 |
| 9    | 3.73 | 3.80 | 4.75  | 4.03 | 4.81 | 4.79 | 4.03 | 3.66 | 3.71 | 4.05 | 3.37 | 3.40 |
| 10   | 3.72 | 3.80 | 11.61 | 3.95 | 5.61 | 4.51 | 3.97 | 3.71 | 3.66 | 3.81 | 3.34 | 3.39 |
| 11   | 3.71 | 3.79 | 11.81 | 3.90 | 8.08 | 4.35 | 3.92 | 4.06 | 3.68 | 3.75 | 3.33 | 3.38 |
| 12   | 3.71 | 3.77 | 8.08  | 3.88 | 6.77 | 4.24 | 3.87 | 3.72 | 3.63 | 3.74 | 3.33 | 3.38 |
| 13   | 3.69 | 3.75 | 5.70  | 3.86 | 5.40 | 4.17 | 3.83 | 3.63 | 3.61 | 3.66 | 3.34 | 3.44 |
| 14   | 3.68 | 3.77 | 5.11  | 3.86 | 4.86 | 4.11 | 3.80 | 3.62 | 3.66 | 3.60 | 3.34 | 3.44 |
| 15   | 3.68 | 5.65 | 4.79  | 3.88 | 4.64 | 4.06 | 3.77 | 3.66 | 3.61 | 3.56 | 3.42 | 4.11 |
| 16   | 3.68 | 7.05 | 4.59  | 3.86 | 4.62 | 4.01 | 3.73 | 3.66 | 3.55 | 3.51 | 3.49 | 4.26 |
| 17   | 3.68 | 4.99 | 4.45  | 3.83 | 4.99 | 3.97 | 3.72 | 3.68 | 3.52 | 3.51 | 3.47 | 3.93 |
| 18   | 3.78 | 4.93 | 4.33  | 3.82 | 4.89 | 3.98 | 3.70 | 3.66 | 3.50 | 3.51 | 3.55 | 3.57 |
| 19   | 4.03 | 4.50 | 4.25  | 3.82 | 4.66 | 3.92 | 3.69 | 3.61 | 3.49 | 3.47 | 3.47 | 3.44 |
| 20   | 3.95 | 4.22 | 4.19  | 3.96 | 4.48 | 3.87 | 3.66 | 3.57 | 3.47 | 3.44 | 3.44 | 3.41 |
| 21   | 3.83 | 4.09 | 4.12  | 4.20 | 4.35 | 3.86 | 3.64 | 3.55 | 3.46 | 3.44 | 3.37 | 3.40 |
| 22   | 3.75 | 4.05 | 4.08  | 4.09 | 4.29 | 4.24 | 3.63 | 3.54 | 3.45 | 3.41 | 3.34 | 3.39 |
| 23   | 3.73 | 6.38 | 4.06  | 3.98 | 4.25 | 4.78 | 3.68 | 3.53 | 3.55 | 3.40 | 3.86 | 3.40 |
| 24   | 3.73 | 7.99 | 4.07  | 3.94 | 4.16 | 4.73 | 3.78 | 3.53 | 3.63 | 3.40 | 3.82 | 3.39 |
| 25   | 3.71 | 5.95 | 4.08  | 3.92 | 4.09 | 4.30 | 3.76 | 3.54 | 3.97 | 3.38 | 3.45 | 3.38 |
| 26   | 3.69 | 6.97 | 4.03  | 3.90 | 4.04 | 4.10 | 3.66 | 3.73 | 5.55 | 3.41 | 3.36 | 3.37 |
| 27   | 3.70 | 9.30 | 3.99  | 3.89 | 4.01 | 3.99 | 3.63 | 4.95 | 4.37 | 3.41 | 3.34 | 3.36 |
| 28   | 8.40 | 7.13 | 3.98  | 3.89 | 3.98 | 3.93 | 3.60 | 4.37 | 3.92 | 3.44 | 3.33 | 3.35 |
| 29   | 8.28 | 5.47 | 3.97  | 3.88 | ---  | 3.95 | 3.59 | 3.86 | 3.64 | 3.43 | 3.45 | 3.34 |
| 30   | 5.06 | 4.84 | 3.95  | 3.85 | ---  | 4.70 | 3.62 | 3.67 | 3.55 | 3.46 | 3.63 | 3.34 |
| 31   | 4.39 | ---  | 3.93  | 3.84 | ---  | 5.23 | ---  | 3.60 | ---  | 3.46 | 3.58 | ---  |
| MEAN | 4.14 | 4.92 | 4.89  | 3.92 | 4.82 | 4.67 | 4.23 | 3.77 | 3.83 | 3.94 | 3.47 | 3.52 |
| MAX  | 8.40 | 9.30 | 11.81 | 4.21 | 8.08 | 9.45 | 8.89 | 4.95 | 5.55 | 7.30 | 3.86 | 4.26 |
| MIN  | 3.68 | 3.75 | 3.93  | 3.82 | 3.91 | 3.86 | 3.59 | 3.53 | 3.45 | 3.38 | 3.33 | 3.34 |

## MISSISSIPPI RIVER DELTA

07377240 LITTLE SANDY CREEK NEAR GREENWELL SPRINGS, LA

LOCATION.--Lat 30°37'36", long 90°59'20", in lot 59, T. 5 S., R. 2 E., East Baton Rouge Parish, Hydrologic Unit 08070202, on downstream side of bridge on Louisiana Highway 409, 0.5 mi (0.8 km) upstream from Sandy Creek, 0.6 mi (1.0 km) downstream from Wind Bayou, and 3.4 (5.5 km) north of the village of Greenwell Springs.

DRAINAGE AREA.--28.2 mi<sup>2</sup> (73.0 km<sup>2</sup>).

PERIOD OF RECORD.--October 1974 to current year. Unpublished gage-height records, June to September 1974, available in files of Baton Rouge district office.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m), from topographic map.

AVERAGE DISCHARGE.--7 years, 56.9 ft<sup>3</sup> (1.611 m<sup>3</sup>/s), 27.40 in/yr (696 mm/yr).

REMARKS.--Records poor. Records of dissolved oxygen and water temperatures for the water 1981 are published under miscellaneous water-quality sites in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,780 ft<sup>3</sup>/s (164 m<sup>3</sup>/s) Apr. 22, 1979, maximum gage height, 24.47 ft (7.458 m) Apr. 21, 1977, backwater from the Amite River; minimum discharge, no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 613 ft<sup>3</sup>/s (17.4 m<sup>3</sup>/s) Feb. 7, gage height, 16.45 ft (5.014 m), no peak above base of 650 ft<sup>3</sup>/s (18.4 m<sup>3</sup>/s); minimum discharge, no flow at times many days.

REVISIONS.--The peak discharge of Apr. 13, 1980, has been revised to 2,540 ft<sup>3</sup>/s (71.9 m<sup>3</sup>/s), gage height, 21.31 ft (6.495 m), and of Apr. 26, 1980, to 2,630 ft<sup>3</sup>/s (74.5 m<sup>3</sup>/s), gage height, 21.40 ft (6.523 m), superseding figures published in WDR LA-1980-2.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY   | OCT    | NOV    | DEC    | JAN   | FEB    | MAR   | APR   | MAY   | JUN    | JUL    | AUG    | SEP    |
|-------|--------|--------|--------|-------|--------|-------|-------|-------|--------|--------|--------|--------|
| 1     | 5.3    | 2.6    | 3.0    | .27   | 11     | 1.8   | 9.0   | 1.4   | 120    | .78    | .20    | 34     |
| 2     | 2.8    | 2.0    | 2.3    | .57   | 119    | 1.6   | 4.7   | 1.3   | 350    | .68    | .29    | 43     |
| 3     | 1.7    | 1.5    | 1.5    | .78   | 19     | 1.9   | 3.4   | 1.5   | 120    | 190    | .19    | 25     |
| 4     | 1.6    | 1.2    | 1.0    | .85   | 4.0    | 3.4   | 2.6   | 7.7   | 50     | 9.0    | .34    | 10     |
| 5     | 1.8    | .90    | .70    | 1.0   | 24     | 51    | 2.0   | 257   | 15     | 77     | .83    | 4.7    |
| 6     | 1.8    | .67    | .60    | 1.4   | 477    | 13    | 1.7   | 445   | 7.0    | 237    | .75    | 3.1    |
| 7     | 1.3    | .63    | .50    | 2.2   | 466    | 4.0   | 1.4   | 57    | 3.0    | 18     | .69    | 2.3    |
| 8     | 1.4    | .57    | .74    | 3.5   | 57     | 2.6   | 1.3   | 4.5   | 1.3    | 22     | .91    | 2.0    |
| 9     | 1.5    | .52    | .48    | 1.6   | 15     | 2.0   | 1.2   | 2.8   | 1.1    | 6.5    | .88    | 1.7    |
| 10    | 1.7    | .68    | 330    | .59   | 272    | 1.7   | 1.1   | 4.3   | .95    | 3.7    | .79    | 1.4    |
| 11    | 1.3    | .63    | 130    | .38   | 433    | 1.3   | 1.0   | 13    | .80    | 55     | .70    | 1.3    |
| 12    | 1.0    | .52    | 13     | .21   | 80     | 1.0   | .95   | 3.5   | 3.0    | 11     | .47    | 1.2    |
| 13    | .90    | .43    | 4.5    | .13   | 12     | 1.0   | .93   | 2.3   | 10     | 3.5    | 1.6    | 1.3    |
| 14    | .82    | .36    | 2.7    | .27   | 6.2    | 1.2   | .90   | 1.7   | 6.6    | 2.1    | 9.3    | 1.3    |
| 15    | .75    | .34    | 1.9    | .16   | 5.6    | 1.3   | .87   | 1.5   | 4.0    | 1.5    | 4.1    | 4.9    |
| 16    | .69    | .31    | 1.5    | .15   | 19     | 1.5   | .83   | 1.3   | 2.5    | 1.0    | 2.2    | 21     |
| 17    | 2.0    | .29    | .88    | .27   | 28     | 1.7   | .81   | 1.2   | 1.6    | .78    | 2.4    | 4.6    |
| 18    | 3.9    | .33    | .53    | .23   | 11     | 1.8   | .78   | 1.3   | 1.4    | .56    | 1.8    | 2.3    |
| 19    | 116    | .50    | .45    | .19   | 5.8    | 1.8   | .76   | 1.5   | 1.1    | .47    | 1.5    | 1.5    |
| 20    | 22     | 2.5    | .71    | .43   | 4.2    | 1.8   | .73   | 1.7   | .99    | .40    | 1.2    | 1.0    |
| 21    | 4.6    | 10     | .28    | .52   | 3.4    | 2.3   | 3.0   | 1.5   | .88    | .37    | .82    | .83    |
| 22    | 3.1    | 35     | .19    | .70   | 3.8    | 74    | 7.2   | 1.6   | .81    | .46    | .41    | .72    |
| 23    | 2.5    | 150    | .16    | .97   | 7.7    | 78    | 11    | 1.3   | 8.6    | .44    | .44    | .74    |
| 24    | 2.3    | 45     | .68    | .97   | 5.4    | 10    | 11    | 1.5   | 29     | .74    | .15    | .66    |
| 25    | 2.2    | 80     | .73    | .83   | 3.6    | 4.5   | 7.0   | 14    | 7.2    | .48    | .13    | .54    |
| 26    | 2.3    | 125    | .51    | .72   | 2.8    | 3.0   | 4.0   | 119   | 7.3    | .39    | .12    | .43    |
| 27    | 2.4    | 60     | .36    | .66   | 2.2    | 2.7   | 2.9   | 8.3   | 8.0    | .31    | .17    | .35    |
| 28    | 115    | 16     | .42    | .49   | 1.9    | 2.9   | 2.1   | 3.5   | 2.7    | .44    | .65    | .36    |
| 29    | 22     | 9.0    | .46    | .40   | ---    | 7.6   | 1.6   | 2.6   | 1.6    | .59    | 141    | .20    |
| 30    | 4.8    | 4.8    | .36    | .34   | ---    | 29    | 1.5   | 2.1   | 1.1    | .45    | 304    | .18    |
| 31    | 3.1    | ---    | .30    | .29   | ---    | 24    | ---   | 1.8   | ---    | .13    | 299    | ---    |
| TOTAL | 334.56 | 552.28 | 548.96 | 22.07 | 2099.6 | 335.4 | 88.26 | 968.7 | 767.53 | 713.09 | 778.03 | 172.61 |
| MEAN  | 10.8   | 18.4   | 17.7   | .71   | 75.0   | 10.8  | 2.94  | 31.2  | 25.6   | 23.0   | 25.1   | 5.75   |
| MAX   | 116    | 150    | 330    | 3.5   | 477    | 78    | 11    | 445   | 350    | 237    | 304    | 43     |
| MIN   | .69    | .29    | .16    | .13   | 1.9    | 1.0   | .73   | 1.2   | .80    | .13    | .12    | .18    |
| CFSM  | .38    | .65    | .63    | .03   | 2.66   | .38   | .10   | 1.11  | .91    | .82    | .89    | .20    |
| IN.   | .44    | .73    | .72    | .03   | 2.77   | .44   | .12   | 1.28  | 1.01   | .94    | 1.03   | .23    |

CAL YR 1980 TOTAL 34100.13 MEAN 93.2 MAX 2400 MIN .00 CFSM 3.31 IN 44.98  
WTR YR 1981 TOTAL 7381.09 MEAN 20.2 MAX 477 MIN .12 CFSM .72 IN 9.74

07377240 LITTLE SANDY CREEK NEAR GREENWELL SPRINGS, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC   | JAN  | FEB   | MAR  | APR  | MAY   | JUN  | JUL   | AUG   | SEP  |
|------|------|------|-------|------|-------|------|------|-------|------|-------|-------|------|
| 1    | 7.48 | 7.20 | ---   | 7.34 | 7.66  | 7.30 | 7.63 | 7.55  | 9.95 | 7.39  | 7.26  | 8.55 |
| 2    | 7.23 | 7.19 | ---   | 7.35 | 9.94  | 7.29 | 7.50 | 7.54  | ---  | 8.84  | 7.26  | 8.78 |
| 3    | 7.11 | 7.22 | ---   | 7.37 | 8.10  | 7.29 | 7.43 | 7.52  | ---  | 11.15 | 7.25  | 8.46 |
| 4    | 7.10 | 7.24 | ---   | 7.38 | 7.57  | 7.42 | 7.41 | 7.54  | ---  | 8.07  | 7.26  | 8.05 |
| 5    | 7.12 | 7.24 | ---   | 7.39 | 7.95  | 8.72 | 7.43 | 11.86 | ---  | 9.08  | 7.31  | 7.63 |
| 6    | 7.12 | 7.25 | ---   | 7.41 | 15.00 | 7.92 | 7.42 | 14.64 | ---  | 11.82 | 7.29  | 7.47 |
| 7    | 7.07 | 7.25 | ---   | 7.47 | 14.77 | 7.48 | 7.41 | 9.27  | ---  | 8.45  | 7.28  | 7.40 |
| 8    | 7.08 | 7.24 | 7.38  | 7.55 | 8.89  | 7.37 | 7.44 | 7.92  | ---  | 8.59  | 7.30  | 7.36 |
| 9    | 7.09 | 7.25 | 8.37  | 7.42 | 8.05  | 7.30 | 7.44 | 7.70  | ---  | 7.94  | 7.28  | 7.33 |
| 10   | 7.23 | 7.25 | 13.14 | 7.35 | 12.17 | 7.27 | 7.44 | 7.76  | ---  | 7.69  | 7.28  | 7.31 |
| 11   | 7.11 | 7.25 | 10.08 | 7.32 | 14.53 | 7.23 | 7.43 | 8.24  | ---  | 9.16  | 7.26  | 7.30 |
| 12   | 7.11 | ---  | 7.98  | 7.30 | 9.26  | 7.20 | 7.43 | 7.68  | ---  | 8.16  | 7.23  | 7.28 |
| 13   | 7.11 | ---  | 7.62  | 7.29 | 7.97  | 7.20 | 7.42 | 7.55  | ---  | 7.66  | 7.33  | 7.30 |
| 14   | 7.12 | ---  | 7.51  | 7.31 | 7.69  | 7.22 | 7.40 | 7.49  | ---  | 7.53  | 7.94  | 7.31 |
| 15   | 7.12 | ---  | 7.45  | 7.30 | 7.65  | 7.23 | 7.39 | 7.47  | ---  | 7.46  | 7.59  | 7.68 |
| 16   | 7.13 | ---  | 7.42  | 7.30 | 8.14  | 7.24 | 7.40 | 7.47  | ---  | 7.41  | 7.38  | 8.38 |
| 17   | 7.14 | ---  | 7.38  | 7.31 | 8.35  | 7.27 | 7.39 | 7.47  | ---  | 7.38  | 7.41  | 7.65 |
| 18   | 7.32 | ---  | 7.36  | 7.31 | 7.91  | 7.28 | 7.39 | 7.48  | 7.46 | 7.36  | 7.33  | 7.42 |
| 19   | 9.88 | ---  | 7.35  | 7.30 | 7.65  | 7.28 | 7.38 | 7.48  | 7.43 | 7.35  | 7.30  | 7.34 |
| 20   | 8.12 | ---  | 7.36  | 7.33 | 7.53  | 7.29 | 7.38 | 7.49  | 7.42 | 7.34  | 7.25  | 7.29 |
| 21   | 7.41 | ---  | 7.32  | 7.34 | 7.46  | 7.34 | 7.40 | 7.47  | 7.40 | 7.34  | 7.22  | 7.27 |
| 22   | 7.26 | ---  | 7.31  | 7.35 | 7.49  | 9.03 | 7.46 | 7.48  | 7.40 | 7.34  | 7.17  | 7.27 |
| 23   | 7.19 | ---  | 7.31  | 7.38 | 7.77  | 9.16 | 7.70 | 7.47  | 7.70 | 7.34  | 7.17  | 7.27 |
| 24   | 7.18 | ---  | 7.36  | 7.38 | 7.61  | 7.68 | 7.70 | 7.47  | 8.69 | 7.36  | ---   | 7.26 |
| 25   | 7.16 | ---  | 7.37  | 7.37 | 7.46  | 7.47 | 7.53 | 8.03  | 8.02 | 7.33  | ---   | 7.26 |
| 26   | 7.18 | ---  | 7.35  | 7.36 | 7.38  | 7.41 | 7.49 | 10.13 | 7.99 | 7.31  | ---   | 7.25 |
| 27   | 7.18 | ---  | 7.33  | 7.35 | 7.32  | 7.40 | 7.53 | 8.06  | 8.01 | 7.30  | 7.14  | 7.24 |
| 28   | 9.81 | ---  | 7.34  | 7.33 | 7.31  | 7.46 | 7.53 | 7.68  | 7.59 | 7.31  | 7.19  | 7.24 |
| 29   | 8.13 | ---  | 7.34  | 7.32 | ---   | 7.53 | 7.51 | 7.58  | 7.48 | 7.32  | 9.88  | 7.23 |
| 30   | 7.42 | ---  | 7.34  | 7.32 | ---   | 8.20 | 7.52 | 7.53  | 7.43 | 7.30  | 12.77 | 7.23 |
| 31   | 7.26 | ---  | 7.34  | 7.31 | ---   | 8.08 | ---  | 7.50  | ---  | 7.25  | 12.70 | ---  |
| MEAN | 7.42 | ---  | ---   | 7.35 | 8.81  | 7.57 | 7.46 | 8.11  | ---  | 7.95  | ---   | 7.53 |
| MAX  | 9.88 | ---  | 13.14 | 7.55 | 15.00 | 9.16 | 7.70 | 14.64 | ---  | 11.82 | 12.77 | 8.78 |
| MIN  | 7.07 | 7.19 | ---   | 7.29 | 7.31  | 7.20 | 7.38 | 7.47  | 7.40 | 7.25  | ---   | 7.23 |



## 07377500 COMITE RIVER NEAR OLIVE BRANCH, LA

LOCATION.--Lat 30°45'21", long 91°02'38", in lot 41, T. 3 S., R.2 E., St. Helena meridian, East Feliciana Parish, Hydrologic Unit 08070202, near center of span on downstream side of bridge on State Highway 67, 1,000 ft (549 m) downstream from Knighton Bayou, and 1.3 mi (2.1 km) northeast of Olive Branch.

DRAINAGE AREA.--145 mi<sup>2</sup> (376 km<sup>2</sup>).

PERIOD OF RECORD.--August 1942 to current year.

REVISED RECORDS.--WSP 1177: 1948, 1949(M). WSP 1920: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 113.65 ft (34.640 m) National Geodetic Vertical Datum of 1929. Aug. 20, 1942, to Oct. 28, 1949, nonrecording gage, Oct. 29, 1949, to Feb. 3, 1964, water-stage recorder at site 1,400 ft (430 m) upstream. Prior to Oct. 1, 1977, at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records good. Records of dissolved oxygen and water temperatures for the water year 1981 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--39 years, 230 ft<sup>3</sup>/s (6.514 m<sup>3</sup>/s), 21.54 in/yr (547 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,400 ft<sup>3</sup>/s (634 m<sup>3</sup>/s) Apr. 22, 1977; maximum gage height, 23.37 ft (7.123 m) present datum, Mar. 18, 1961; minimum discharge, 28 ft<sup>3</sup>/s (0.79 m<sup>3</sup>/s) Oct. 12, 13, 15, 16, 17, 18, 19, 1972; minimum gage height, 1.77 ft (0.539 m) Sept. 23, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,560 ft<sup>3</sup>/s (72.5 m<sup>3</sup>/s) Dec. 11, gage height, 7.51 ft (2.289 m); no peak above base of 3,000 ft<sup>3</sup>/s (85.0 m<sup>3</sup>/s); minimum discharge, 44 ft<sup>3</sup>/s (1.25 m<sup>3</sup>/s) Aug. 26, 27, 28, gage height, 1.66 ft (0.506 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY               | OCT    | NOV  | DEC  | JAN      | FEB       | MAR    | APR       | MAY      | JUN  | JUL  | AUG  | SEP  |
|-------------------|--------|------|------|----------|-----------|--------|-----------|----------|------|------|------|------|
| 1                 | 290    | 97   | 107  | 69       | 74        | 84     | 119       | 224      | 76   | 69   | 50   | 87   |
| 2                 | 86     | 84   | 98   | 68       | 127       | 82     | 123       | 86       | 83   | 414  | 51   | 61   |
| 3                 | 77     | 75   | 92   | 70       | 108       | 80     | 106       | 66       | 75   | 979  | 68   | 63   |
| 4                 | 61     | 68   | 88   | 68       | 78        | 200    | 100       | 60       | 456  | 334  | 56   | 242  |
| 5                 | 58     | 63   | 85   | 67       | 80        | 738    | 95        | 912      | 193  | 291  | 51   | 87   |
| 6                 | 57     | 60   | 82   | 68       | 655       | 278    | 91        | 1560     | 310  | 603  | 50   | 63   |
| 7                 | 57     | 58   | 79   | 77       | 551       | 143    | 89        | 694      | 137  | 244  | 49   | 57   |
| 8                 | 57     | 56   | 77   | 91       | 196       | 119    | 87        | 139      | 88   | 452  | 51   | 54   |
| 9                 | 57     | 54   | 300  | 73       | 146       | 109    | 87        | 106      | 84   | 177  | 52   | 53   |
| 10                | 56     | 52   | 1440 | 70       | 351       | 100    | 85        | 152      | 73   | 102  | 50   | 52   |
| 11                | 56     | 51   | 1990 | 69       | 806       | 94     | 83        | 272      | 71   | 220  | 49   | 51   |
| 12                | 55     | 54   | 279  | 68       | 254       | 90     | 81        | 110      | 68   | 145  | 51   | 50   |
| 13                | 54     | 53   | 152  | 68       | 152       | 88     | 79        | 89       | 65   | 102  | 50   | 48   |
| 14                | 54     | 52   | 126  | 68       | 128       | 84     | 77        | 84       | 63   | 84   | 49   | 82   |
| 15                | 54     | 120  | 114  | 68       | 124       | 80     | 75        | 82       | 62   | 74   | 57   | 299  |
| 16                | 54     | 158  | 98   | 67       | 141       | 76     | 75        | 79       | 60   | 69   | 63   | 210  |
| 17                | 53     | 102  | 90   | 67       | 153       | 74     | 73        | 79       | 58   | 66   | 52   | 87   |
| 18                | 60     | 172  | 83   | 66       | 135       | 78     | 71        | 78       | 65   | 64   | 49   | 67   |
| 19                | 83     | 92   | 78   | 66       | 118       | 78     | 70        | 72       | 60   | 63   | 48   | 61   |
| 20                | 70     | 76   | 75   | 73       | 108       | 72     | 68        | 69       | 58   | 61   | 47   | 58   |
| 21                | 59     | 72   | 72   | 96       | 103       | 95     | 69        | 67       | 57   | 58   | 47   | 56   |
| 22                | 56     | 75   | 72   | 82       | 109       | 157    | 71        | 66       | 56   | 57   | 47   | 55   |
| 23                | 57     | 395  | 72   | 73       | 112       | 158    | 94        | 66       | 60   | 56   | 47   | 54   |
| 24                | 57     | 696  | 79   | 71       | 102       | 110    | 112       | 65       | 152  | 54   | 52   | 53   |
| 25                | 56     | 187  | 80   | 70       | 98        | 94     | 118       | 94       | 116  | 53   | 50   | 52   |
| 26                | 57     | 765  | 75   | 69       | 95        | 87     | 75        | 137      | 744  | 52   | 47   | 52   |
| 27                | 58     | 1060 | 72   | 69       | 90        | 82     | 66        | 211      | 293  | 75   | 45   | 51   |
| 28                | 193    | 455  | 70   | 68       | 86        | 90     | 64        | 84       | 112  | 64   | 45   | 50   |
| 29                | 1070   | 159  | 69   | 68       | ---       | 97     | 61        | 71       | 80   | 56   | 114  | 48   |
| 30                | 340    | 124  | 69   | 67       | ---       | 130    | 65        | 67       | 71   | 53   | 158  | 47   |
| 31                | 116    | ---  | 69   | 66       | ---       | 192    | ---       | 65       | ---  | 51   | 177  | ---  |
| TOTAL             | 3568   | 5585 | 6332 | 2200     | 5280      | 4039   | 2529      | 6006     | 3946 | 5242 | 1872 | 2350 |
| MEAN              | 115    | 186  | 204  | 71.0     | 189       | 130    | 84.3      | 194      | 132  | 169  | 60.4 | 78.3 |
| MAX               | 1070   | 1060 | 1990 | 96       | 806       | 738    | 123       | 1560     | 744  | 979  | 177  | 299  |
| MIN               | 53     | 51   | 69   | 66       | 74        | 72     | 61        | 60       | 56   | 51   | 45   | 47   |
| CFSM              | .79    | 1.28 | 1.41 | .49      | 1.30      | .90    | .58       | 1.34     | .91  | 1.17 | .42  | .54  |
| IN.               | .92    | 1.43 | 1.62 | .56      | 1.35      | 1.04   | .65       | 1.54     | 1.01 | 1.34 | .48  | .60  |
| CAL YR 1980 TOTAL | 130764 |      |      | MEAN 357 | MAX 11600 | MIN 48 | CFSM 2.46 | IN 33.55 |      |      |      |      |
| WTR YR 1981 TOTAL | 48949  |      |      | MEAN 134 | MAX 1990  | MIN 45 | CFSM .92  | IN 12.56 |      |      |      |      |

07377500 COMITE RIVER NEAR OLIVE BRANCH, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 2.98 | 2.11 | 2.24 | 2.09 | 2.12 | ---  | 2.11 | 2.74 | 2.03 | 1.93 | 1.71 | 1.99 |
| 2    | 1.94 | ---  | 2.19 | 2.08 | 2.46 | ---  | 2.13 | 2.08 | 2.08 | 3.21 | 1.72 | 1.80 |
| 3    | 1.88 | ---  | 2.14 | 2.09 | 2.35 | ---  | 2.04 | 1.94 | 2.02 | 4.99 | 1.85 | 1.81 |
| 4    | 1.85 | ---  | 2.12 | 2.08 | 2.16 | ---  | 2.01 | 1.90 | 3.65 | 3.10 | 1.76 | 2.77 |
| 5    | 1.83 | ---  | 2.10 | 2.07 | 2.16 | 4.38 | 1.99 | 4.59 | 2.67 | 2.87 | 1.72 | 1.99 |
| 6    | 1.83 | ---  | 2.08 | 2.08 | 4.15 | 2.91 | 1.97 | 6.12 | 3.17 | 4.01 | 1.71 | 1.82 |
| 7    | 1.83 | ---  | 2.06 | 2.14 | 3.85 | 2.34 | 1.96 | 4.09 | 2.42 | 2.84 | 1.70 | 1.76 |
| 8    | 1.83 | ---  | 2.05 | 2.25 | 2.65 | 2.20 | 1.95 | 2.41 | 2.13 | 3.57 | 1.72 | 1.74 |
| 9    | 1.83 | ---  | 2.84 | 2.12 | 2.40 | 2.14 | 1.95 | 2.23 | 2.10 | 2.53 | 1.73 | 1.73 |
| 10   | 1.83 | ---  | 5.91 | 2.09 | 3.16 | ---  | 1.94 | 2.48 | 2.02 | 2.13 | 1.71 | 1.73 |
| 11   | 1.83 | ---  | 6.69 | 2.09 | 4.56 | ---  | 1.93 | 2.99 | 2.00 | 2.68 | 1.69 | 1.72 |
| 12   | 1.82 | ---  | 3.11 | 2.08 | 2.88 | ---  | 1.93 | 2.24 | 1.98 | 2.36 | 1.70 | 1.71 |
| 13   | 1.81 | ---  | 2.59 | 2.08 | 2.43 | ---  | 1.92 | 2.11 | 1.96 | 2.12 | 1.70 | 1.70 |
| 14   | 1.81 | ---  | 2.45 | 2.08 | 2.30 | ---  | 1.91 | 2.08 | 1.95 | 1.99 | 1.69 | 1.96 |
| 15   | 1.82 | ---  | ---  | 2.08 | 2.28 | ---  | 1.91 | 2.07 | 1.93 | 1.91 | 1.76 | 2.84 |
| 16   | 1.80 | 2.48 | ---  | 2.08 | 2.38 | ---  | 1.90 | 2.05 | 1.91 | 1.88 | 1.80 | 2.61 |
| 17   | 1.80 | 2.17 | ---  | 2.07 | 2.44 | ---  | 1.90 | 2.05 | 1.90 | 1.85 | 1.71 | 2.00 |
| 18   | 1.85 | 2.56 | ---  | 2.07 | 2.34 | ---  | 1.89 | 2.05 | 1.95 | 1.83 | 1.69 | 1.85 |
| 19   | 2.02 | 2.11 | ---  | 2.07 | 2.25 | ---  | 1.89 | 2.00 | 1.91 | 1.81 | 1.68 | 1.81 |
| 20   | 1.93 | 2.01 | ---  | 2.12 | 2.19 | ---  | 1.88 | 1.98 | 1.88 | 1.79 | 1.68 | 1.79 |
| 21   | 1.84 | 1.98 | ---  | 2.28 | 2.16 | ---  | 1.88 | 1.97 | 1.87 | 1.79 | 1.67 | 1.77 |
| 22   | 1.82 | 2.00 | ---  | 2.18 | 2.19 | 2.35 | 1.91 | 1.96 | 1.87 | 1.78 | 1.68 | 1.76 |
| 23   | 1.83 | 3.39 | ---  | 2.12 | 2.21 | 2.34 | 2.09 | 1.95 | 1.89 | 1.77 | 1.67 | 1.75 |
| 24   | 1.83 | 4.31 | ---  | 2.11 | 2.15 | ---  | 2.17 | 1.94 | 2.46 | 1.75 | 1.71 | 1.75 |
| 25   | 1.82 | 2.64 | ---  | 2.10 | 2.11 | ---  | 2.23 | 2.14 | 2.25 | 1.74 | 1.70 | 1.74 |
| 26   | 1.82 | 4.28 | ---  | 2.09 | ---  | ---  | 1.96 | 2.38 | 4.37 | 1.73 | 1.67 | 1.73 |
| 27   | 1.82 | 5.17 | ---  | 2.09 | ---  | ---  | 1.91 | 2.73 | 3.05 | 1.91 | 1.67 | 1.73 |
| 28   | 2.42 | 3.56 | ---  | 2.08 | ---  | ---  | 1.89 | 2.09 | 2.23 | 1.82 | 1.67 | 1.72 |
| 29   | 5.16 | 2.53 | ---  | 2.08 | ---  | ---  | 1.88 | 2.00 | 2.02 | 1.76 | 2.09 | 1.71 |
| 30   | 3.09 | 2.34 | 2.08 | 2.07 | ---  | ---  | 1.91 | 1.96 | 1.96 | 1.73 | 2.32 | 1.70 |
| 31   | 2.23 | ---  | 2.09 | 2.07 | ---  | 2.45 | ---  | 1.95 | ---  | 1.72 | 2.49 | ---  |
| MEAN | 2.06 | ---  | ---  | 2.10 | ---  | ---  | 1.96 | 2.43 | 2.25 | 2.29 | 1.77 | 1.88 |
| MAX  | 5.16 | 5.17 | 6.69 | 2.28 | 4.56 | 4.38 | 2.23 | 6.12 | 4.37 | 4.99 | 2.49 | 2.84 |
| MIN  | 1.80 | ---  | ---  | 2.07 | ---  | ---  | 1.88 | 1.90 | 1.87 | 1.72 | 1.67 | 1.70 |

## MISSISSIPPI RIVER DELTA

07377755 WHITE BAYOU EAST DIVERSION CHANNEL NEAR BATON ROUGE, LA

LOCATION.--Lat 30°37'00", long 91°06'55", in SE1/4 lot 16, T.5 S., R. 2 E., St. Helena meridian, East Baton Rouge Parish, Hydrologic Unit 08070202, near center of span on downstream side of bridge on State Highway 67 (Plank Road), 1.0 mi (1.6 km) downstream from point of diversion, 2.16 mi (4.2 km) upstream from mouth, and 6.5 mi (10.5 km) northeast of terminal building at Ryan Airport, at Baton Rouge.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1972 to current year.--Daily gage heights January 1965 to July 1972 published as "Stewart Swamp Diversion Canal near Fred, La." by Corps of Engineers, New Orleans district.

GAGE.--Water-stage recorder. Datum of gage is 62.00 ft (18.898 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good above 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) and poor below. Records of dissolved oxygen and water temperatures for water year 1981 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--9 years, 10.6 ft<sup>3</sup>/s (0.30 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,550 ft<sup>3</sup>/s (43.9 m<sup>3</sup>/s) Apr. 23, 1979. Maximum gage height, 19.08 ft (5.816 m) Apr. 22, 1977 (backwater from Comite River); no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 534 ft<sup>3</sup>/s (15.12 m<sup>3</sup>/s) July 3, gage height, 11.36 ft (3.463 m); minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN  | FEB    | MAR  | APR  | MAY    | JUN   | JUL    | AUG  | SEP  |
|-------|-------|-------|-------|------|--------|------|------|--------|-------|--------|------|------|
| 1     | .04   | .04   | .01   | .01  | 1.1    | .49  | .03  | .05    | .02   | .05    | .00  | .08  |
| 2     | .02   | .04   | .02   | .01  | .56    | .28  | .03  | .05    | .02   | 169    | .00  | .04  |
| 3     | .02   | .03   | .01   | .00  | .04    | .27  | .03  | .03    | .02   | 323    | .00  | .14  |
| 4     | .01   | .03   | .01   | .02  | .02    | .55  | .03  | .64    | .02   | 2.5    | .00  | .04  |
| 5     | .01   | .03   | .00   | .02  | 8.2    | .47  | .03  | 137    | .34   | 8.9    | .00  | .02  |
| 6     | .00   | .03   | .00   | .01  | 103    | .09  | .02  | 68     | .58   | 3.1    | .03  | .01  |
| 7     | .00   | .03   | .00   | .03  | 5.8    | .21  | .02  | 4.8    | .41   | 1.1    | .02  | .01  |
| 8     | .02   | .03   | .01   | .01  | 1.7    | .10  | .02  | 2.1    | .14   | .65    | .00  | .01  |
| 9     | .03   | .03   | 8.1   | .01  | .90    | .03  | .02  | 1.2    | .02   | .26    | .00  | .01  |
| 10    | .01   | .03   | 17    | .00  | 11     | .03  | .02  | 3.4    | 1.1   | .25    | .00  | .00  |
| 11    | .01   | .03   | 2.2   | .00  | 4.6    | .03  | .02  | 1.8    | 7.5   | .67    | .00  | .00  |
| 12    | .00   | .02   | .22   | .00  | 1.4    | .02  | .02  | .88    | 7.9   | .04    | .00  | .00  |
| 13    | .00   | .02   | .02   | .00  | .76    | .03  | .02  | .41    | 2.9   | .03    | .05  | .00  |
| 14    | .00   | .36   | .01   | .00  | .38    | .03  | .02  | .56    | 1.1   | .02    | .02  | 2.0  |
| 15    | .00   | 1.2   | .01   | .00  | 1.1    | .02  | .02  | .48    | .46   | .02    | .00  | 2.6  |
| 16    | .00   | .18   | .01   | .00  | 1.7    | .02  | .02  | .21    | .26   | .02    | .00  | .90  |
| 17    | .00   | .94   | .01   | .00  | 1.3    | .03  | .03  | .21    | .26   | .02    | .00  | .22  |
| 18    | 13    | .38   | .00   | .00  | .90    | .03  | .02  | .14    | .45   | .01    | .00  | .10  |
| 19    | 9.7   | .05   | .00   | .00  | .63    | .03  | .02  | .21    | .32   | .01    | .00  | .03  |
| 20    | .44   | .04   | .00   | .00  | .32    | .03  | .02  | .14    | .21   | .01    | .00  | .03  |
| 21    | .03   | .04   | .00   | .01  | .18    | .12  | .02  | .14    | .14   | .00    | .00  | .03  |
| 22    | .06   | 3.1   | .00   | .01  | .50    | .11  | .02  | .14    | .11   | .00    | .00  | .03  |
| 23    | .23   | 19    | .00   | .01  | .22    | .02  | .15  | .14    | .30   | .00    | .00  | .03  |
| 24    | .02   | 3.0   | .01   | .01  | .18    | .01  | .08  | .21    | .23   | .00    | .00  | .03  |
| 25    | .01   | .32   | .01   | .01  | .05    | .01  | .02  | 1.8    | .17   | .00    | .00  | .04  |
| 26    | .01   | 25    | .01   | .01  | .05    | .01  | .02  | .68    | .12   | .00    | .00  | .05  |
| 27    | .46   | 5.9   | .00   | .01  | .05    | .02  | .02  | .21    | .09   | .00    | .00  | .05  |
| 28    | 3.2   | 1.4   | .00   | .01  | .16    | .02  | .02  | .48    | .06   | .02    | 1.7  | .05  |
| 29    | .70   | .04   | .00   | .01  | ---    | .03  | .03  | .02    | .06   | .01    | .81  | .06  |
| 30    | .10   | .02   | .01   | .01  | ---    | .04  | .04  | .02    | .05   | .00    | 4.3  | .06  |
| 31    | .04   | ---   | .01   | .01  | ---    | .03  | ---  | .02    | ---   | .00    | 1.4  | ---  |
| TOTAL | 28.17 | 61.36 | 27.69 | .23  | 146.80 | 3.21 | .88  | 226.17 | 25.36 | 509.69 | 8.33 | 6.67 |
| MEAN  | .91   | 2.05  | .89   | .007 | 5.24   | .10  | .029 | 7.30   | .85   | 16.4   | .27  | .22  |
| MAX   | 13    | 25    | 17    | .03  | 103    | .55  | .15  | 137    | 7.9   | 323    | 4.3  | 2.6  |
| MIN   | .00   | .02   | .00   | .00  | .02    | .01  | .02  | .02    | .02   | .00    | .00  | .00  |

CAL YR 1980 TOTAL 5774.75 MEAN 15.8 MAX 754 MIN .00  
WTR YR 1981 TOTAL 1044.56 MEAN 2.86 MAX 323 MIN .00

07377755 WHITE BAYOU EAST DIVERSION CHANNEL NEAR BATON ROUGE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 3.97 | 3.84 | 3.93 | 3.86 | 4.09 | 3.99 | 3.87 | 3.86 | 3.78 | 3.76 | 3.74 | 3.88 |
| 2    | 3.89 | 3.83 | 3.94 | 3.86 | 4.13 | 3.95 | 3.88 | 3.85 | 3.78 | 6.70 | 3.72 | 3.85 |
| 3    | 3.87 | 3.82 | 3.93 | 3.85 | 4.00 | 3.95 | 3.88 | 3.81 | 3.78 | 9.51 | 3.71 | 3.89 |
| 4    | 3.84 | 3.82 | 3.90 | 3.93 | 3.93 | 4.01 | 3.88 | 3.89 | 3.78 | 4.17 | 3.69 | 3.84 |
| 5    | 3.82 | 3.80 | 3.89 | 3.93 | 4.46 | 4.00 | 3.86 | 7.81 | 3.82 | 4.66 | 3.72 | 3.77 |
| 6    | 3.80 | 3.80 | 3.88 | 3.88 | 7.38 | 3.92 | 3.84 | 6.69 | 3.87 | 4.41 | 3.85 | 3.74 |
| 7    | 3.77 | 3.80 | 3.89 | 3.97 | 4.69 | 3.93 | 3.83 | 4.34 | 3.84 | 4.06 | 3.81 | 3.73 |
| 8    | 3.90 | 3.80 | 3.90 | 3.88 | 4.23 | 3.91 | 3.82 | 4.05 | 3.80 | 3.97 | 3.77 | 3.71 |
| 9    | 3.92 | 3.80 | 4.60 | 3.86 | 4.07 | 3.85 | 3.82 | 3.94 | 3.78 | 3.90 | 3.75 | 3.69 |
| 10   | 3.85 | 3.80 | 5.34 | 3.85 | 5.06 | 3.83 | 3.82 | 4.21 | 3.89 | 3.91 | 3.74 | 3.66 |
| 11   | 3.82 | 3.80 | 4.33 | 3.83 | 4.61 | 3.83 | 3.81 | 4.02 | 4.44 | 4.01 | ---  | 3.62 |
| 12   | 3.80 | 3.78 | 4.11 | 3.82 | 4.19 | 3.83 | 3.82 | 3.89 | 4.71 | 3.83 | ---  | 3.60 |
| 13   | 3.76 | 3.77 | 3.99 | 3.83 | 4.04 | 3.84 | 3.82 | 3.83 | 4.14 | 3.80 | ---  | 3.62 |
| 14   | 3.72 | 3.86 | 3.92 | 3.83 | 3.96 | 3.84 | 3.81 | 3.86 | 3.92 | 3.78 | ---  | 4.02 |
| 15   | 3.68 | 4.13 | 3.89 | 3.83 | 4.12 | 3.84 | 3.80 | 3.84 | 3.83 | 3.80 | ---  | 4.37 |
| 16   | 3.65 | 3.92 | 3.90 | 3.83 | 4.23 | 3.85 | 3.81 | 3.81 | 3.80 | 3.81 | ---  | 4.07 |
| 17   | 3.62 | 4.08 | 3.90 | 3.82 | 4.15 | 3.86 | 3.85 | 3.81 | 3.79 | 3.80 | ---  | 3.92 |
| 18   | 4.73 | 3.96 | 3.87 | 3.82 | 4.07 | 3.86 | 3.82 | 3.80 | 3.81 | 3.79 | ---  | 3.86 |
| 19   | 4.90 | 3.87 | 3.87 | 3.82 | 4.00 | 3.86 | 3.81 | 3.81 | 3.78 | 3.79 | ---  | 3.80 |
| 20   | 4.10 | 3.85 | 3.85 | 3.92 | 3.95 | 3.86 | 3.81 | 3.80 | 3.77 | 3.78 | ---  | 3.79 |
| 21   | 3.93 | 3.84 | 3.84 | 3.87 | 3.92 | 3.90 | 3.81 | 3.80 | 3.77 | 3.78 | ---  | 3.80 |
| 22   | 3.90 | 4.16 | 3.87 | 3.84 | 3.98 | 3.94 | 3.80 | 3.80 | 3.77 | 3.77 | ---  | 3.80 |
| 23   | 3.99 | 5.40 | 3.86 | 3.84 | 3.92 | 3.84 | 3.87 | 3.80 | 3.77 | 3.77 | ---  | 3.81 |
| 24   | 3.86 | 4.42 | 3.89 | 3.83 | 3.91 | 3.82 | 3.88 | 3.81 | 3.77 | 3.77 | ---  | 3.81 |
| 25   | 3.84 | 4.12 | 3.89 | 3.83 | 3.87 | 3.82 | 3.81 | 3.95 | 3.77 | 3.76 | 3.42 | 3.83 |
| 26   | 3.82 | 5.59 | 3.87 | 3.83 | 3.86 | 3.83 | 3.79 | 3.87 | 3.76 | 3.75 | 3.38 | 3.84 |
| 27   | 3.89 | 4.72 | 3.86 | 3.83 | 3.85 | 3.83 | 3.78 | 3.81 | 3.77 | 3.77 | 3.33 | 3.84 |
| 28   | 4.39 | 4.24 | 3.85 | 3.83 | 3.89 | 3.84 | 3.78 | 3.84 | 3.77 | 3.81 | 3.77 | 3.84 |
| 29   | 4.02 | 4.04 | 3.85 | 3.82 | ---  | 3.87 | 3.81 | 3.78 | 3.76 | 3.79 | 4.08 | 3.86 |
| 30   | 3.90 | 3.94 | 3.86 | 3.82 | ---  | 3.90 | 3.84 | 3.78 | 3.76 | 3.78 | 4.34 | 3.86 |
| 31   | 3.86 | ---  | 3.86 | 3.82 | ---  | 3.87 | ---  | 3.78 | ---  | 3.76 | 4.18 | ---  |
| MEAN | 3.93 | 4.05 | 3.98 | 3.85 | 4.23 | 3.88 | 3.83 | 4.09 | 3.86 | 4.15 | ---  | 3.82 |
| MAX  | 4.90 | 5.59 | 5.34 | 3.97 | 7.38 | 4.01 | 3.88 | 7.81 | 4.71 | 9.51 | ---  | 4.37 |
| MIN  | 3.62 | 3.77 | 3.84 | 3.82 | 3.85 | 3.82 | 3.78 | 3.78 | 3.76 | 3.75 | ---  | 3.60 |

## MISSISSIPPI RIVER DELTA

07377782 WHITE BAYOU SOUTHEAST OF ZACHARY, LA

LOCATION.--Lat 30°38'13", long 91°07'39", at center of El/2 lot 39, T. 5 S., R. 1 E., St. Helena meridian, East Baton Rouge Parish, Hydrologic Unit 08070202, near center of span on downstream side of bridge on Lower Zachary Road, 1.5 mi (2.4 km) downstream from Indian Bayou, and 2.0 mi (3.2 km) southeast of Zachary.

DRAINAGE AREA.--45 mi<sup>2</sup> (117 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--August 1972 to current year. Daily gage heights from January 1965 to July 1972 published as White Bayou near Zachary by Corps of Engineers, New Orleans District.

GAGE.--Water-stage recorder. Datum of gage is 65.00 ft (19.812 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good above 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) and poor below. Records for dissolved oxygen and water temperatures for water year 1981 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--9 years, 81.2 ft<sup>3</sup>/s (2.300 m<sup>3</sup>/s), 24.51 in/yr (623 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,480 ft<sup>3</sup>/s (127 m<sup>3</sup>/s) Apr. 23, 1979, gage height, 23.05 ft (7.026 m); minimum daily, no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,700 ft<sup>3</sup>/s (48.1 m<sup>3</sup>/s) and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|--------|------|-------------------------------------------------------|-------------------------|
| July 3 | 0030 | *2100 59.5                                            | *19.09 5.82             |

Minimum discharge, 0.11 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) Aug. 27; gage height, 3.19 ft (0.97 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY               | OCT      | NOV     | DEC     | JAN   | FEB    | MAR    | APR   | MAY     | JUN    | JUL     | AUG    | SEP     |
|-------------------|----------|---------|---------|-------|--------|--------|-------|---------|--------|---------|--------|---------|
| 1                 | 9.7      | .48     | 6.5     | 1.3   | 13     | 1.9    | 9.0   | .40     | 1.4    | 1.7     | .40    | 74      |
| 2                 | 12       | .37     | 4.0     | 1.4   | 35     | 1.5    | 3.7   | .44     | 89     | 897     | .34    | 14      |
| 3                 | 4.4      | .34     | 3.2     | 2.4   | 27     | 1.3    | 2.2   | .37     | 25     | 1580    | .30    | 7.4     |
| 4                 | 2.0      | .31     | 2.0     | 1.6   | 12     | 51     | 1.5   | 1.6     | 10     | 240     | .27    | 3.8     |
| 5                 | .89      | .22     | 1.5     | 1.3   | 60     | 275    | 1.1   | 959     | 13     | 57      | 6.6    | 5.7     |
| 6                 | .56      | .19     | 1.4     | 3.2   | 992    | 49     | .73   | 923     | 37     | 257     | 6.1    | 3.7     |
| 7                 | .48      | .16     | 1.1     | 13    | 347    | 19     | .66   | 119     | 24     | 80      | .76    | 1.7     |
| 8                 | .40      | .25     | .98     | 5.5   | 53     | 10     | .60   | 26      | 11     | 31      | .48    | 1.0     |
| 9                 | .34      | .22     | 220     | 5.3   | 26     | 5.0    | .53   | 15      | 7.5    | 22      | .34    | .73     |
| 10                | .28      | .31     | 800     | 3.3   | 260    | 4.6    | .49   | 257     | 5.7    | 12      | .25    | .52     |
| 11                | .25      | .31     | 242     | 2.1   | 261    | 2.9    | .48   | 69      | 27     | 75      | .21    | .35     |
| 12                | .16      | .31     | 32      | 1.5   | 48     | 2.0    | .48   | 21      | 67     | 60      | .18    | .31     |
| 13                | .13      | .31     | 17      | 1.4   | 22     | 1.8    | .45   | 9.4     | 18     | 16      | 1.5    | .75     |
| 14                | .16      | 2.8     | 12      | 1.2   | 12     | 1.4    | .45   | 6.0     | 8.5    | 7.1     | 33     | 15      |
| 15                | .16      | 16      | 6.9     | 1.2   | 32     | 1.1    | .41   | 4.1     | 5.4    | 4.1     | 4.6    | 298     |
| 16                | .13      | 3.8     | 4.7     | 1.2   | 87     | 1.0    | .49   | 3.2     | 3.0    | 2.9     | 1.7    | 523     |
| 17                | .09      | 11      | 3.3     | 1.6   | 72     | .85    | .71   | 2.7     | 2.0    | 2.0     | .94    | 57      |
| 18                | 59       | 4.9     | 2.7     | 1.8   | 37     | .63    | .59   | 2.1     | 1.2    | 1.4     | .59    | 14      |
| 19                | 104      | 1.8     | 2.2     | 1.8   | 21     | .66    | .53   | 1.6     | .86    | 1.1     | .42    | 5.7     |
| 20                | 12       | 1.0     | 1.8     | 4.4   | 13     | .65    | .49   | 1.4     | .71    | .81     | .32    | 3.0     |
| 21                | 5.7      | .72     | 1.4     | 6.5   | 7.9    | 8.8    | .45   | 1.1     | .60    | .68     | .30    | 1.8     |
| 22                | 1.8      | 18      | 1.2     | 3.3   | 20     | 78     | .40   | .77     | .48    | .69     | .33    | 1.1     |
| 23                | .80      | 313     | 1.2     | 2.2   | 32     | 39     | 1.7   | .72     | 7.0    | .56     | .21    | .68     |
| 24                | .48      | 125     | 1.5     | 1.6   | 17     | 14     | 2.0   | .73     | 12     | .49     | .17    | .55     |
| 25                | .44      | 23      | 2.5     | 1.2   | 8.1    | 5.1    | .66   | 61      | 9.9    | .43     | .22    | .45     |
| 26                | .40      | 503     | 2.2     | 1.2   | 4.4    | 2.3    | .57   | 37      | 195    | .38     | .15    | .35     |
| 27                | 1.8      | 520     | 2.0     | 1.2   | 3.1    | 1.4    | .55   | 11      | 37     | .47     | .11    | .33     |
| 28                | 12       | 60      | 1.4     | 1.2   | 2.4    | 1.1    | .50   | 9.1     | 12     | .94     | .83    | .32     |
| 29                | 1.4      | 22      | 1.2     | 1.2   | ---    | 1.6    | .42   | 4.3     | 5.9    | .89     | 2.1    | .93     |
| 30                | .64      | 12      | 1.2     | 1.1   | ---    | 17     | .37   | 2.2     | 2.7    | .64     | 67     | .46     |
| 31                | .48      | ---     | 1.3     | .98   | ---    | 25     | ---   | 1.5     | ---    | .52     | 371    | ---     |
| TOTAL             | 233.07   | 1641.80 | 1382.38 | 78.18 | 2524.9 | 624.59 | 33.21 | 2551.73 | 639.85 | 3354.80 | 501.72 | 1036.63 |
| MEAN              | 7.52     | 54.7    | 44.6    | 2.52  | 90.2   | 20.1   | 1.11  | 82.3    | 21.3   | 108     | 16.2   | 34.6    |
| MAX               | 104      | 520     | 800     | 13    | 992    | 275    | 9.0   | 959     | 195    | 1580    | 371    | 523     |
| MIN               | .09      | .16     | .98     | .98   | 2.4    | .63    | .37   | .37     | .48    | .38     | .11    | .31     |
| CAL YR 1980 TOTAL | 42829.65 |         |         | 117   | 2620   |        |       |         |        |         |        |         |
| WTR YR 1981 TOTAL | 14602.86 |         |         | 40.0  | 1580   |        |       |         |        |         |        |         |

## MISSISSIPPI RIVER DELTA

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07377782 WHITE BAYOU SOUTHEAST OF ZACHARY, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT  | NOV   | DEC   | JAN  | FEB   | MAR  | APR  | MAY   | JUN  | JUL   | AUG  | SEP   |
|------|------|-------|-------|------|-------|------|------|-------|------|-------|------|-------|
| 1    | 3.99 | 3.42  | 3.91  | 3.56 | 4.02  | 3.70 | 4.06 | 3.40  | 3.52 | 3.52  | 3.30 | 5.50  |
| 2    | 4.14 | 3.39  | 3.78  | 3.57 | 4.86  | 3.66 | 3.79 | 3.40  | 5.82 | 10.80 | 3.28 | 4.10  |
| 3    | 3.77 | 3.38  | 3.72  | 3.65 | 4.63  | 3.64 | 3.69 | 3.38  | 4.52 | 16.70 | 3.27 | 3.84  |
| 4    | 3.60 | 3.37  | 3.63  | 3.58 | 4.13  | 4.78 | 3.63 | 3.44  | 4.01 | 7.57  | 3.25 | 3.65  |
| 5    | 3.49 | 3.34  | 3.59  | 3.55 | 4.88  | 8.40 | 3.58 | 13.05 | 4.07 | 5.36  | 3.58 | 3.75  |
| 6    | 3.42 | 3.33  | 3.58  | 3.66 | 13.68 | 5.26 | 3.52 | 13.23 | 4.88 | 8.24  | 3.74 | 3.64  |
| 7    | 3.40 | 3.32  | 3.54  | 4.18 | 8.85  | 4.47 | 3.50 | 6.27  | 4.50 | 5.85  | 3.38 | 3.51  |
| 8    | 3.38 | 3.35  | 3.53  | 3.84 | 5.37  | 4.15 | 3.49 | 4.59  | 4.05 | 4.68  | 3.32 | 3.44  |
| 9    | 3.36 | 3.34  | 6.30  | 3.83 | 4.68  | 3.91 | 3.47 | 4.22  | 3.89 | 4.42  | 3.28 | 3.39  |
| 10   | 3.34 | 3.37  | 12.50 | 3.71 | 7.89  | 3.88 | 3.45 | 8.07  | 3.79 | 4.08  | 3.25 | 3.34  |
| 11   | 3.33 | 3.37  | 7.68  | 3.62 | 8.23  | 3.77 | 3.45 | 5.59  | 4.47 | 5.43  | 3.24 | 3.29  |
| 12   | 3.30 | 3.37  | 4.80  | 3.57 | 5.30  | 3.70 | 3.45 | 4.43  | 5.57 | 5.37  | 3.23 | 3.28  |
| 13   | 3.29 | 3.37  | 4.34  | 3.56 | 4.58  | 3.68 | 3.44 | 4.01  | 4.28 | 4.22  | 3.33 | 3.37  |
| 14   | 3.30 | 3.53  | 4.13  | 3.53 | 4.26  | 3.64 | 3.43 | 3.85  | 3.94 | 3.85  | 4.69 | 3.93  |
| 15   | 3.30 | 4.26  | 3.93  | 3.53 | 4.83  | 3.61 | 3.42 | 3.75  | 3.79 | 3.68  | 3.69 | 7.66  |
| 16   | 3.29 | 3.75  | 3.82  | 3.53 | 6.07  | 3.60 | 3.44 | 3.69  | 3.63 | 3.60  | 3.49 | 10.54 |
| 17   | 3.27 | 4.05  | 3.73  | 3.58 | 5.78  | 3.58 | 3.49 | 3.65  | 3.55 | 3.53  | 3.41 | 5.28  |
| 18   | 4.87 | 3.82  | 3.68  | 3.60 | 5.03  | 3.54 | 3.46 | 3.60  | 3.48 | 3.48  | 3.34 | 4.12  |
| 19   | 6.01 | 3.61  | 3.64  | 3.60 | 4.56  | 3.55 | 3.44 | 3.56  | 3.44 | 3.44  | 3.29 | 3.78  |
| 20   | 4.14 | 3.52  | 3.61  | 3.76 | 4.27  | 3.53 | 3.43 | 3.54  | 3.41 | 3.41  | 3.26 | 3.62  |
| 21   | 3.86 | 3.48  | 3.57  | 3.88 | 4.07  | 3.76 | 3.42 | 3.50  | 3.38 | 3.38  | 3.26 | 3.53  |
| 22   | 3.61 | 3.98  | 3.55  | 3.70 | 4.50  | 5.86 | 3.41 | 3.46  | 3.35 | 3.38  | 3.27 | 3.46  |
| 23   | 3.50 | 8.83  | 3.54  | 3.62 | 4.89  | 5.02 | 3.53 | 3.45  | 3.69 | 3.35  | 3.22 | 3.40  |
| 24   | 3.42 | 6.48  | 3.58  | 3.57 | 4.41  | 4.26 | 3.61 | 3.44  | 4.06 | 3.33  | 3.21 | 3.37  |
| 25   | 3.41 | 4.51  | 3.66  | 3.53 | 4.07  | 3.89 | 3.46 | 4.95  | 3.98 | 3.32  | 3.23 | 3.34  |
| 26   | 3.40 | 9.82  | 3.64  | 3.52 | 3.89  | 3.72 | 3.44 | 4.84  | 7.57 | 3.30  | 3.21 | 3.31  |
| 27   | 3.49 | 10.52 | 3.62  | 3.53 | 3.81  | 3.64 | 3.44 | 4.04  | 4.84 | 3.32  | 3.19 | 3.31  |
| 28   | 4.11 | 5.44  | 3.57  | 3.52 | 3.74  | 3.60 | 3.43 | 3.97  | 4.05 | 3.41  | 3.31 | 3.30  |
| 29   | 3.57 | 4.48  | 3.55  | 3.52 | ---   | 3.63 | 3.40 | 3.74  | 3.79 | 3.41  | 3.51 | 3.44  |
| 30   | 3.46 | 4.13  | 3.55  | 3.51 | ---   | 4.37 | 3.39 | 3.60  | 3.59 | 3.37  | 5.30 | 3.34  |
| 31   | 3.42 | ---   | 3.56  | 3.50 | ---   | 4.62 | ---  | 3.53  | ---  | 3.33  | 9.27 | ---   |
| MEAN | 3.65 | 4.40  | 4.22  | 3.63 | 5.33  | 4.14 | 3.51 | 4.69  | 4.16 | 4.78  | 3.63 | 4.03  |
| MAX  | 6.01 | 10.52 | 12.50 | 4.18 | 13.68 | 8.40 | 4.06 | 13.23 | 7.57 | 16.70 | 9.27 | 10.54 |
| MIN  | 3.27 | 3.32  | 3.53  | 3.50 | 3.74  | 3.53 | 3.39 | 3.38  | 3.35 | 3.30  | 3.19 | 3.28  |



## MISSISSIPPI RIVER DELTA

07377842 WHITE BAYOU NEAR BAKER, LA

LOCATION.--Lat 30°34'45", long 91°07'18", in NW1/4SW1/4 lot 28, T. 5 S., R. 1 E., St. Helena meridian, East Baton Rouge Parish, Hydrologic Unit 08070202, near center of span on downstream side of bridge on Pettit Road, 0.1 mi (0.2 km) upstream from pipeline crossing, 0.6 mi (1.0 km) downstream from State Highway 67, and 2.8 mi (4.5 km) east of Baker.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 60 ft or 18 m (approximately), from topographic map.

REMARKS.--Records poor. Records of dissolved oxygen and water temperatures for water year 1981 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--9 years, 12.2 ft<sup>3</sup>/s (0.346 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 661 ft<sup>3</sup>/s (18.7 m<sup>3</sup>/s) Apr. 23, 1977, gage height, 17.25 ft (5.258 m), backwater from Comite River; maximum gage height unaffected by backwater, 15.29 ft (4.660 m) Mar. 24, 1973; no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 268 ft<sup>3</sup>/s (7.59 m<sup>3</sup>/s) Feb. 6, gage height, 10.96 ft (3.341 m); minimum daily, .08 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY   | OCT    | NOV    | DEC    | JAN   | FEB    | MAR   | APR   | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------|--------|--------|--------|-------|--------|-------|-------|--------|--------|--------|--------|--------|
| 1     | 4.2    | .56    | .88    | .39   | 11     | .70   | .50   | .40    | .84    | .73    | .14    | 2.3    |
| 2     | .97    | .51    | .70    | .38   | 10     | 1.4   | .36   | .34    | .82    | 66     | .20    | 1.4    |
| 3     | .52    | .48    | .64    | .37   | 2.0    | .88   | .30   | .31    | 2.0    | 105    | .20    | .84    |
| 4     | .42    | .45    | .60    | .37   | .88    | 3.2   | .28   | .29    | 1.5    | 29     | .24    | .56    |
| 5     | .40    | .43    | .58    | .40   | 33     | 4.5   | .28   | 143    | 5.0    | 36     | 2.4    | .80    |
| 6     | .40    | .42    | .56    | 1.0   | 213    | 1.5   | .24   | 145    | 3.5    | 36     | 13     | .62    |
| 7     | .40    | .41    | .54    | 2.5   | 55     | .74   | .22   | 27     | 2.4    | 5.3    | 1.8    | .48    |
| 8     | .40    | .40    | .52    | .70   | 16     | .56   | .26   | 5.7    | 1.7    | .99    | .59    | .37    |
| 9     | .40    | .39    | 32     | .36   | 6.5    | .50   | .28   | 2.6    | 1.2    | .23    | .30    | .28    |
| 10    | .40    | .39    | 75     | .32   | 91     | .47   | .34   | 5.7    | 18     | .31    | .24    | .24    |
| 11    | .40    | .39    | 14     | .31   | 60     | .44   | .24   | 4.0    | 71     | .80    | .20    | .20    |
| 12    | .38    | .40    | 3.7    | .30   | 15     | .43   | .22   | 2.9    | 86     | .58    | .20    | .18    |
| 13    | .38    | .50    | 1.8    | .29   | 5.2    | .41   | .20   | 2.4    | 9.2    | .34    | .30    | 9.1    |
| 14    | .38    | .63    | 1.0    | .29   | 2.5    | .40   | .24   | 2.0    | 4.4    | .29    | .30    | 24     |
| 15    | .38    | 5.9    | .62    | .28   | 24     | .39   | .24   | 1.7    | 2.4    | .28    | .28    | 50     |
| 16    | .40    | 1.1    | .58    | .28   | 30     | .38   | .40   | 1.4    | 1.6    | .24    | .24    | 11     |
| 17    | .44    | 2.6    | .54    | .28   | 17     | .38   | .62   | 1.3    | 1.1    | .23    | .22    | .73    |
| 18    | 62     | 1.8    | .52    | .28   | 8.0    | .37   | .49   | 1.2    | .80    | .21    | .18    | .28    |
| 19    | 143    | .91    | .50    | .30   | 3.6    | .37   | .39   | 1.1    | .55    | .19    | .18    | .16    |
| 20    | 24     | .79    | .49    | .74   | 2.8    | .36   | .33   | 1.0    | .48    | .18    | .18    | .10    |
| 21    | 1.9    | .79    | .47    | 1.2   | 2.2    | 1.6   | .31   | .96    | .43    | .17    | .22    | .08    |
| 22    | .91    | 16     | .46    | .62   | 1.9    | 3.0   | .29   | .94    | .37    | .16    | .28    | .14    |
| 23    | .64    | 120    | .44    | .41   | 1.6    | .72   | 7.2   | .92    | .35    | .16    | .30    | .10    |
| 24    | .60    | 25     | 1.7    | .33   | 1.4    | .50   | 9.8   | .90    | .50    | .15    | .51    | .08    |
| 25    | .54    | 4.2    | .88    | .29   | 1.2    | .42   | 1.6   | 5.9    | .45    | .15    | .50    | .10    |
| 26    | .50    | 103    | .62    | .27   | 1.1    | .36   | .70   | 3.2    | .36    | .16    | .30    | .12    |
| 27    | 1.2    | 60     | .46    | .30   | .94    | .50   | .45   | 1.7    | .34    | .69    | .30    | .16    |
| 28    | 9.0    | 12     | .44    | .28   | .82    | .40   | .33   | 1.1    | .33    | .63    | 28     | .16    |
| 29    | 4.1    | 3.3    | .42    | .36   | ---    | .54   | .29   | .97    | .32    | .40    | 43     | .16    |
| 30    | 1.1    | 1.5    | .40    | .26   | ---    | .50   | .50   | .90    | .31    | .28    | 8.3    | .14    |
| 31    | .73    | ---    | .40    | .24   | ---    | .46   | ---   | .88    | ---    | .18    | 9.5    | ---    |
| TOTAL | 261.49 | 365.25 | 142.46 | 14.70 | 617.64 | 27.38 | 27.90 | 367.71 | 218.25 | 286.03 | 112.60 | 104.88 |
| MEAN  | 8.44   | 12.2   | 4.60   | .47   | 22.1   | .88   | .93   | 11.9   | 7.28   | 9.23   | 3.63   | 3.50   |
| MAX   | 143    | 120    | 75     | 2.5   | 213    | 4.5   | 9.8   | 145    | 86     | 105    | 43     | 50     |
| MIN   | .38    | .39    | .40    | .24   | .82    | .36   | .20   | .29    | .31    | .15    | .14    | .08    |

CAL YR 1980 TOTAL 5606.33 MEAN 15.3 MAX 455 MIN .12  
WTR YR 1981 TOTAL 2546.29 MEAN 6.98 MAX 213 MIN .08

07377842 WHITE BAYOU NEAR BAKER, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 4.12 | 3.54 | 3.71 | 3.52 | 4.33 | 3.68 | 3.65 | 4.78 | 4.21 | 3.87 | 3.62 | 4.20 |
| 2    | 3.69 | 3.53 | 3.68 | 3.50 | 4.60 | 3.89 | 3.58 | 4.71 | 4.23 | 6.08 | 3.65 | 4.31 |
| 3    | 3.52 | 3.50 | 3.62 | 3.52 | 4.02 | 3.74 | 3.55 | 4.66 | 4.29 | 7.50 | 3.65 | 4.40 |
| 4    | 3.47 | 3.42 | 3.60 | 3.52 | 3.78 | 3.99 | 3.54 | 4.68 | 4.24 | 5.33 | 3.67 | 4.41 |
| 5    | 3.46 | 3.48 | 3.61 | 3.52 | 4.92 | 4.28 | 3.54 | 8.39 | 4.36 | 5.41 | 4.19 | 4.37 |
| 6    | 3.46 | 3.47 | 3.60 | 3.65 | 9.95 | 3.98 | 3.52 | 8.46 | 4.62 | 5.62 | 4.77 | 4.32 |
| 7    | 3.46 | 3.47 | 3.60 | 4.08 | 6.18 | 3.75 | 3.51 | 5.31 | 4.34 | 4.46 | 4.12 | 4.29 |
| 8    | 3.46 | 3.47 | 3.57 | 3.72 | 4.88 | 3.63 | 3.53 | 4.43 | 4.30 | 4.01 | 3.76 | 4.28 |
| 9    | 3.46 | 3.46 | 4.87 | 3.56 | 4.41 | 3.64 | 3.54 | 4.19 | 4.29 | 3.76 | 3.63 | 4.27 |
| 10   | 3.46 | 3.48 | 6.73 | 3.54 | 7.05 | 3.68 | 3.57 | 4.43 | 4.86 | 3.76 | 3.60 | 4.26 |
| 11   | 3.46 | 3.47 | 4.79 | 3.54 | 6.32 | 3.53 | 3.52 | 4.32 | 6.59 | 4.01 | 3.58 | 4.24 |
| 12   | 3.45 | 3.45 | 4.20 | 3.55 | 4.84 | 3.57 | 3.51 | 4.22 | 6.98 | 3.94 | 3.58 | 4.28 |
| 13   | 3.45 | 3.51 | 3.95 | 3.55 | 4.33 | 3.59 | 3.50 | 4.10 | 4.60 | 3.82 | 3.63 | 4.60 |
| 14   | 3.45 | 3.63 | 3.80 | 3.54 | 4.08 | 3.60 | 3.52 | 4.15 | 4.04 | 3.81 | 3.63 | 5.07 |
| 15   | 3.45 | 4.29 | 3.65 | 3.54 | 5.17 | 3.63 | 3.52 | 4.04 | 3.83 | 3.84 | 3.62 | 6.07 |
| 16   | 3.46 | 3.74 | 3.66 | 3.53 | 5.46 | 3.64 | 3.60 | 3.97 | 3.81 | 3.80 | 3.60 | 4.71 |
| 17   | 3.48 | 3.98 | 3.62 | 3.52 | 4.93 | 3.60 | 3.74 | 3.99 | 3.79 | 3.78 | 3.59 | 4.07 |
| 18   | 5.84 | 3.89 | 3.59 | 3.52 | 4.49 | 3.59 | 3.61 | 3.94 | 3.80 | 3.78 | 3.57 | 3.86 |
| 19   | 8.44 | 3.67 | 3.53 | 3.53 | 4.20 | 3.59 | 3.59 | 3.82 | 3.82 | 3.77 | 3.57 | 3.80 |
| 20   | 5.13 | 3.63 | 3.54 | ---  | 3.88 | 3.59 | 3.58 | 3.88 | 3.88 | 3.78 | 3.57 | 3.77 |
| 21   | 3.91 | 3.63 | 3.55 | ---  | 3.86 | 3.75 | 3.78 | 3.86 | 3.86 | 3.76 | 3.59 | 3.76 |
| 22   | 3.67 | 4.32 | 3.56 | ---  | 3.93 | 4.16 | 4.00 | 3.85 | 3.85 | 3.77 | 3.62 | 3.79 |
| 23   | 3.58 | 7.87 | 3.53 | ---  | 3.97 | 3.74 | 4.48 | 3.86 | 3.86 | 3.76 | 3.63 | 3.77 |
| 24   | 3.56 | 5.20 | 3.88 | ---  | 3.89 | 3.69 | 4.59 | 3.93 | 3.93 | 3.75 | 3.73 | 3.76 |
| 25   | 3.53 | 4.18 | 3.71 | ---  | 3.84 | 3.63 | 4.40 | 4.30 | 4.02 | 3.77 | 3.73 | 3.77 |
| 26   | 3.51 | 7.31 | 3.62 | ---  | 3.80 | 3.58 | 4.44 | 4.26 | 4.00 | 3.73 | 3.63 | 3.78 |
| 27   | 3.56 | 6.31 | 3.56 | ---  | 3.76 | 3.61 | 4.47 | 4.07 | 3.96 | 3.88 | 3.63 | 3.80 |
| 28   | 4.50 | 4.67 | 3.53 | ---  | 3.72 | 3.53 | 4.49 | 4.15 | 3.86 | 3.85 | 4.78 | 3.80 |
| 29   | 4.19 | 4.14 | 3.52 | 3.56 | ---  | 3.60 | 4.54 | 4.18 | 3.86 | 3.63 | 5.80 | 3.80 |
| 30   | 3.73 | 3.89 | 3.51 | 3.51 | ---  | 3.75 | 4.58 | 4.20 | 3.87 | 3.61 | 4.54 | 3.79 |
| 31   | 3.61 | ---  | 3.51 | 3.50 | ---  | 3.71 | ---  | 4.20 | ---  | 3.61 | 4.60 | ---  |
| MEAN | 3.89 | 4.12 | 3.82 | ---  | 4.74 | 3.71 | 3.83 | 4.49 | 4.27 | 4.17 | 3.87 | 4.18 |
| MAX  | 8.44 | 7.87 | 6.73 | 4.08 | 9.95 | 4.28 | 4.59 | 8.46 | 6.98 | 7.50 | 5.80 | 6.07 |
| MIN  | 3.45 | 3.42 | 3.51 | ---  | 3.72 | 3.53 | 3.50 | 3.82 | 3.79 | 3.61 | 3.57 | 3.76 |

## MISSISSIPPI RIVER DELTA

07378000 COMITE RIVER NEAR COMITE, LA

LOCATION.--Lat 30°30'45", long 91°04'25", on line between lots 24 and 44, T.6 S., R. 1 E., St. Helena meridian, East Baton Rouge Parish, Hydrologic Unit 08070202, near left bank on downstream side of bridge on State Highway 946, 0.5 mi (0.8 km) downstream from Blackwater Bayou, and 2.6 mi (4.2 km) west of Comite.

DRAINAGE AREA.--284 mi<sup>2</sup> (735 km<sup>2</sup>). See REMARKS.

PERIOD OF RECORD.--March 1944 to current year.

REVISED RECORDS.--WSP 1920: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 23.85 ft (7.269 m) National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development, Office of Public Works). Prior to Apr. 22, 1946, nonrecording gage at same site. Prior to Oct. 1, 1962, at datum 5.00 ft (1.524 m) higher. Prior to Oct. 1, 1978, at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records fair. Since 1957, considerable flow from 46 mi<sup>2</sup> (119 km<sup>2</sup>) diverted from basin. Records of dissolved oxygen and water temperatures for the water year 1981 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--37 years, 463 ft<sup>3</sup>/s (13.11 m<sup>3</sup>/s), 22.14 in/yr (562 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,100 ft<sup>3</sup>/s (683 m<sup>3</sup>/s) Apr. 23, 1977; maximum gage height, 30.64 ft (9.339 m) May 19, 1953, present datum (prior to dredging August 1961); minimum discharge, 28 ft<sup>3</sup>/s (0.79 m<sup>3</sup>/s) Aug. 1, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,000 ft<sup>3</sup>/s or 198 m<sup>3</sup>/s (revised) and maximum (\*):

| Date  | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|-------|------|-------------------------------------------------------|-------------------------|
| May 5 | 2330 | *7250 205                                             | *15.39 4.691            |

Minimum discharge, 55 ft<sup>3</sup>/s (1.56 m<sup>3</sup>/s) Aug. 27, 28, gage height, 1.56 ft (0.475 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC      | JAN       | FEB    | MAR       | APR      | MAY   | JUN  | JUL   | AUG  | SEP  |
|-------------|-------|--------|----------|-----------|--------|-----------|----------|-------|------|-------|------|------|
| 1           | 342   | 135    | 154      | 84        | 136    | 106       | 188      | 242   | 94   | 94    | 78   | 401  |
| 2           | 198   | 114    | 132      | 82        | 268    | 103       | 136      | 186   | 587  | 418   | 73   | 142  |
| 3           | 102   | 103    | 118      | 82        | 214    | 101       | 130      | 120   | 175  | 2380  | 70   | 103  |
| 4           | 85    | 97     | 109      | 83        | 159    | 155       | 112      | 103   | 270  | 1090  | 130  | 154  |
| 5           | 78    | 90     | 102      | 81        | 299    | 971       | 104      | 3910  | 573  | 473   | 250  | 282  |
| 6           | 75    | 86     | 97       | 84        | 3570   | 765       | 99       | 4930  | 542  | 1250  | 160  | 114  |
| 7           | 73    | 82     | 94       | 126       | 1720   | 291       | 96       | 2100  | 375  | 625   | 70   | 87   |
| 8           | 72    | 80     | 90       | 124       | 577    | 193       | 94       | 654   | 178  | 506   | 66   | 76   |
| 9           | 71    | 79     | 354      | 117       | 321    | 156       | 93       | 387   | 121  | 520   | 65   | 71   |
| 10          | 70    | 76     | 2370     | 95        | 1410   | 137       | 91       | 505   | 121  | 243   | 66   | 68   |
| 11          | 69    | 75     | 2470     | 89        | 1780   | 124       | 90       | 538   | 486  | 346   | 63   | 66   |
| 12          | 69    | 82     | 1060     | 86        | 816    | 116       | 89       | 336   | 932  | 440   | 63   | 65   |
| 13          | 69    | 81     | 299      | 83        | 343    | 113       | 88       | 176   | 222  | 192   | 78   | 87   |
| 14          | 70    | 78     | 192      | 82        | 235    | 107       | 87       | 129   | 113  | 145   | 207  | 106  |
| 15          | 70    | 123    | 152      | 81        | 282    | 103       | 86       | 116   | 89   | 117   | 80   | 351  |
| 16          | 70    | 187    | 131      | 79        | 348    | 98        | 87       | 111   | 80   | 102   | 84   | 995  |
| 17          | 68    | 163    | 117      | 79        | 354    | 95        | 94       | 105   | 76   | 94    | 80   | 243  |
| 18          | 678   | 162    | 110      | 78        | 290    | 96        | 92       | 102   | 73   | 89    | 67   | 122  |
| 19          | 1270  | 162    | 100      | 78        | 213    | 96        | 88       | 98    | 80   | 85    | 63   | 90   |
| 20          | 272   | 108    | 95       | 89        | 171    | 92        | 87       | 89    | 72   | 82    | 60   | 79   |
| 21          | 125   | 97     | 93       | 107       | 150    | 91        | 85       | 85    | 68   | 79    | 59   | 73   |
| 22          | 96    | 156    | 93       | 134       | 151    | 314       | 91       | 81    | 66   | 77    | 58   | 69   |
| 23          | 87    | 1400   | 93       | 109       | 177    | 322       | 141      | 78    | 67   | 75    | 57   | 67   |
| 24          | 84    | 1040   | 100      | 96        | 159    | 185       | 224      | 78    | 137  | 74    | 57   | 65   |
| 25          | 83    | 610    | 101      | 90        | 135    | 128       | 190      | 94    | 211  | 72    | 61   | 63   |
| 26          | 82    | 1410   | 95       | 86        | 120    | 111       | 138      | 339   | 614  | 71    | 58   | 62   |
| 27          | 82    | 2160   | 92       | 85        | 114    | 103       | 105      | 318   | 887  | 90    | 56   | 59   |
| 28          | 179   | 1030   | 89       | 84        | 108    | 98        | 96       | 183   | 318  | 150   | 57   | 58   |
| 29          | 611   | 309    | 87       | 84        | ---    | 106       | 92       | 104   | 148  | 300   | 99   | 57   |
| 30          | 1030  | 196    | 85       | 82        | ---    | 149       | 102      | 85    | 108  | 170   | 698  | 56   |
| 31          | 213   | ---    | 85       | 80        | ---    | 252       | ---      | 78    | ---  | 90    | 992  | ---  |
| TOTAL       | 6543  | 10571  | 9359     | 2819      | 14660  | 5877      | 3295     | 16460 | 7883 | 10539 | 4125 | 4331 |
| MEAN        | 211   | 352    | 302      | 90.9      | 524    | 190       | 110      | 531   | 263  | 340   | 133  | 144  |
| MAX         | 1270  | 2160   | 2470     | 134       | 3570   | 971       | 224      | 4930  | 932  | 2380  | 992  | 995  |
| MIN         | 68    | 75     | 85       | 78        | 108    | 91        | 85       | 78    | 66   | 71    | 56   | 56   |
| CFSM        | .74   | 1.24   | 1.06     | .32       | 1.85   | .67       | .39      | 1.87  | .93  | 1.20  | .47  | .51  |
| INF.        | .86   | 1.38   | 1.23     | .37       | 1.92   | .77       | .43      | 2.16  | 1.03 | 1.38  | .54  | .57  |
| CAL YR 1980 | TOTAL | 287795 | MEAN 786 | MAX 19900 | MIN 68 | CFSM 2.77 | IN 37.70 |       |      |       |      |      |
| WTR YR 1981 | TOTAL | 96462  | MEAN 264 | MAX 4930  | MIN 56 | CFSM .93  | IN 12.64 |       |      |       |      |      |

## MISSISSIPPI RIVER DELTA

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07378000 COMITE RIVER NEAR COMITE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB   | MAR  | APR  | MAY   | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|-------|------|------|-------|------|------|------|------|
| 1    | 3.43 | 2.51 | 2.47 | 1.98 | 2.30  | 1.97 | 2.49 | 2.70  | 1.86 | 1.86 | ---  | 3.28 |
| 2    | 3.06 | 2.38 | 2.34 | 1.97 | 3.00  | 1.96 | 2.21 | 2.47  | 3.92 | 3.02 | ---  | 2.23 |
| 3    | 2.44 | 2.31 | 2.24 | 1.97 | 2.95  | 1.94 | 2.17 | 2.10  | 2.43 | 8.76 | ---  | 1.98 |
| 4    | 2.31 | 2.26 | 2.18 | 1.98 | 2.50  | 2.24 | 2.05 | 1.99  | 2.71 | 5.32 | ---  | 2.22 |
| 5    | 2.26 | 2.20 | 2.13 | 1.96 | 2.91  | 5.12 | 1.99 | 10.73 | 3.87 | 3.50 | ---  | 2.87 |
| 6    | 2.22 | 2.17 | 2.09 | 1.98 | 11.27 | 4.56 | 1.95 | 12.69 | 3.78 | 5.79 | 2.32 | 2.06 |
| 7    | 2.21 | 2.13 | 2.06 | 2.30 | 7.21  | 2.93 | 1.93 | 7.30  | 3.23 | 3.99 | 1.68 | 1.86 |
| 8    | 2.20 | 2.12 | 2.03 | 2.28 | 3.96  | 2.51 | 1.92 | 3.47  | 2.44 | 3.61 | 1.64 | 1.77 |
| 9    | 2.19 | 2.12 | 3.01 | 2.24 | 3.03  | 2.31 | 1.91 | 2.73  | 2.11 | 3.66 | 1.64 | 1.73 |
| 10   | 2.18 | 2.09 | 8.91 | 2.07 | 6.32  | 2.20 | 1.89 | 3.23  | 2.09 | 2.70 | 1.64 | 1.71 |
| 11   | 2.18 | 2.08 | 9.15 | 2.02 | 7.40  | 2.12 | 1.89 | 3.45  | 3.54 | 3.08 | 1.62 | 1.70 |
| 12   | 2.18 | 2.14 | 5.41 | 2.00 | 4.70  | 2.06 | 1.88 | 2.89  | 4.92 | 3.41 | 1.62 | 1.69 |
| 13   | 2.18 | 2.13 | 3.12 | 1.98 | 3.12  | 2.04 | 1.87 | 2.35  | 2.61 | 2.47 | 1.75 | 1.87 |
| 14   | 2.18 | 2.10 | 2.68 | 1.97 | 2.68  | 2.00 | 1.86 | 2.18  | 2.03 | 2.21 | 2.50 | 1.97 |
| 15   | 2.19 | 2.44 | 2.46 | 1.96 | 2.87  | 1.97 | 1.85 | 2.10  | 1.86 | 2.02 | 1.77 | 3.16 |
| 16   | 2.19 | 2.79 | 2.33 | 1.94 | 3.14  | 1.93 | 1.86 | 2.07  | 1.78 | 1.92 | 1.80 | 5.14 |
| 17   | 2.17 | 2.67 | 2.24 | 1.94 | 3.17  | 1.91 | 1.92 | 2.02  | 1.74 | 1.86 | 1.77 | 2.75 |
| 18   | 4.18 | 2.66 | 2.18 | 1.94 | 2.90  | 1.92 | 1.90 | 2.00  | 1.71 | 1.81 | 1.66 | 2.15 |
| 19   | 6.03 | 2.66 | 2.11 | 1.93 | 2.58  | 1.92 | 1.87 | 1.96  | 1.76 | 1.78 | 1.63 | 1.91 |
| 20   | 3.10 | 2.34 | 2.07 | 2.02 | 2.38  | 1.89 | 1.86 | 1.89  | 1.69 | 1.75 | 1.61 | 1.82 |
| 21   | 2.45 | 2.26 | 2.06 | 2.16 | 2.26  | 1.88 | 1.85 | 1.85  | 1.66 | 1.73 | 1.59 | 1.78 |
| 22   | 2.25 | 2.50 | 2.06 | 2.35 | 2.26  | 2.98 | 1.89 | 1.82  | 1.64 | 1.71 | 1.59 | 1.75 |
| 23   | 2.18 | 6.40 | 2.06 | 2.18 | 2.41  | 3.06 | 2.16 | 1.79  | 1.65 | ---  | 1.59 | 1.73 |
| 24   | 2.16 | 5.41 | 2.12 | 2.09 | 2.32  | 2.47 | 2.64 | 1.79  | 2.14 | ---  | 1.58 | 1.72 |
| 25   | 2.14 | 4.12 | 2.12 | 2.03 | 2.18  | 2.15 | 2.49 | 1.92  | 2.55 | ---  | 1.62 | 1.70 |
| 26   | 2.14 | 6.29 | 2.08 | 2.00 | 2.08  | 2.03 | 2.22 | 3.11  | 3.73 | ---  | 1.59 | 1.69 |
| 27   | 2.14 | 8.36 | 2.05 | 1.99 | 2.03  | 1.98 | 2.00 | 3.01  | 4.75 | ---  | 1.57 | 1.68 |
| 28   | 2.72 | 5.36 | 2.02 | 1.98 | 1.99  | 1.95 | 1.94 | 2.45  | 2.97 | ---  | 1.58 | 1.67 |
| 29   | 4.08 | 3.15 | 2.00 | 1.98 | ---   | 2.01 | 1.90 | 1.99  | 2.23 | ---  | 1.94 | 1.66 |
| 30   | 5.36 | 2.70 | 1.99 | 1.96 | ---   | 2.29 | 1.97 | 1.85  | 1.97 | ---  | 4.23 | 1.65 |
| 31   | 2.89 | ---  | 1.99 | 1.95 | ---   | 2.79 | ---  | 1.78  | ---  | ---  | 5.11 | ---  |
| MEAN | 2.70 | 3.10 | 2.77 | 2.04 | 3.50  | 2.36 | 2.01 | 3.09  | 2.58 | ---  | ---  | 2.10 |
| MAX  | 6.03 | 8.36 | 9.15 | 2.35 | 11.27 | 5.12 | 2.64 | 12.69 | 4.92 | 8.76 | 5.11 | 5.14 |
| MIN  | 2.14 | 2.08 | 1.99 | 1.93 | 1.99  | 1.88 | 1.85 | 1.78  | 1.64 | ---  | ---  | 1.65 |

## MISSISSIPPI RIVER DELTA

07378500 AMITE RIVER NEAR DENHAM SPRINGS, LA

LOCATION.--Lat 30°27'50", long 90°59'25", in lot 2, T. 7 S., R. 2 E., St. Helena meridian, East Baton Rouge-Livingston Parish line, Hydrologic Unit 08070202, on downstream side of bridge on U.S. Highway 190, 1,000 ft (300 m) downstream from Comite River, 2.3 mi (3.7 km) southwest of town of Denham Springs, and 15 mi (24 km) east of Baton Rouge.

DRAINAGE AREA.--1,280 mi<sup>2</sup> (3,315 km<sup>2</sup>).

PERIOD OF RECORD.--September 1938 to current year.

REVISED RECORDS.--WSP 1920: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929, Sept. 1, 1938, to Aug. 8, 1939, non-recording gage at same site. Prior to Oct. 1, 1977, at datum 3.87 ft (1.180 m) higher. Water-stage recorder for Amite River at 4-H Camp, near Denham Springs (station 07378510) used as auxiliary gage for this station.

REMARKS.--Records good. Since 1957, considerable flow from 46 mi<sup>2</sup> (119 km<sup>2</sup>) diverted from basin. Records of dissolved oxygen and water temperatures for the water year 1981 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--43 years, 1,980 ft<sup>3</sup>/s (56.07 m<sup>3</sup>/s), 21.01 in/yr (534 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 110,000 ft<sup>3</sup>/s (3,120 m<sup>3</sup>/s) Apr. 23, 1977, gage height, 41.08 ft (12.521 m), present datum; minimum daily discharge, 271 ft<sup>3</sup>/s (7.67 m<sup>3</sup>/s) Oct. 17, 18, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,300 ft<sup>3</sup>/s (269 m<sup>3</sup>/s) Dec. 12, gage height, 24.46 ft (7.455 m). No peak above base of 12,000 ft<sup>3</sup>/s or 340 m<sup>3</sup>/s (revised); minimum discharge, 424 ft<sup>3</sup>/s (12.0 m<sup>3</sup>/s) Sept. 30, gage height, 10.64 ft (3.243 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 1030  | 1110  | 1460  | 772   | 772   | 885   | 1650  | 861   | 739   | 666   | 551   | 1590  |
| 2     | 1080  | 943   | 1230  | 757   | 1140  | 863   | 2030  | 982   | 1620  | 761   | 554   | 906   |
| 3     | 752   | 844   | 1100  | 745   | 1190  | 841   | 3530  | 822   | 1330  | 3200  | 585   | 840   |
| 4     | 672   | 781   | 999   | 738   | 1060  | 997   | 2660  | 752   | 950   | 3850  | 766   | 861   |
| 5     | 634   | 733   | 937   | 725   | 1160  | 1990  | 1560  | 4200  | 2060  | 2840  | 654   | 1150  |
| 6     | 612   | 696   | 896   | 726   | 6970  | 4460  | 1290  | 8670  | 2370  | 2880  | 739   | 839   |
| 7     | 595   | 671   | 859   | 874   | 8950  | 4670  | 1150  | 5260  | 2550  | 2460  | 582   | 682   |
| 8     | 592   | 655   | 830   | 847   | 4240  | 3130  | 1070  | 2140  | 1390  | 1830  | 565   | 598   |
| 9     | 589   | 633   | 1120  | 907   | 2260  | 1770  | 1020  | 1270  | 1030  | 1810  | 584   | 549   |
| 10    | 586   | 633   | 4370  | 808   | 4340  | 1440  | 978   | 1220  | 957   | 1250  | 541   | 521   |
| 11    | 580   | 620   | 8160  | 751   | 6430  | 1290  | 941   | 1340  | 1350  | 1880  | 576   | 502   |
| 12    | 576   | 618   | 10300 | 710   | 6150  | 1190  | 915   | 1290  | 2060  | 1460  | 520   | 490   |
| 13    | 573   | 608   | 5770  | 690   | 3750  | 1130  | 887   | 1040  | 1200  | 1070  | 539   | 574   |
| 14    | 570   | 604   | 2520  | 690   | 2210  | 1090  | 858   | 949   | 864   | 892   | 849   | 555   |
| 15    | 568   | 692   | 1760  | 695   | 1890  | 1050  | 838   | 895   | 766   | 805   | 604   | 862   |
| 16    | 565   | 1340  | 1480  | 685   | 1850  | 1020  | 823   | 863   | 716   | 749   | 553   | 1730  |
| 17    | 563   | 2250  | 1300  | 670   | 1810  | 981   | 835   | 859   | 668   | 702   | 595   | 1540  |
| 18    | 1610  | 1360  | 1180  | 660   | 1870  | 955   | 820   | 840   | 642   | 675   | 546   | 976   |
| 19    | 3030  | 1230  | 1100  | 668   | 1660  | 944   | 806   | 818   | 624   | 658   | 566   | 712   |
| 20    | 1150  | 994   | 1030  | 693   | 1440  | 917   | 786   | 793   | 606   | 641   | 541   | 604   |
| 21    | 756   | 858   | 976   | 745   | 1290  | 901   | 781   | 759   | 597   | 615   | 523   | 549   |
| 22    | 666   | 853   | 938   | 857   | 1200  | 1140  | 778   | 730   | 587   | 602   | 511   | 519   |
| 23    | 621   | 3080  | 910   | 824   | 1180  | 1740  | 805   | 716   | 576   | 589   | 510   | 503   |
| 24    | 605   | 3300  | 920   | 754   | 1140  | 1510  | 1080  | 709   | 714   | 588   | 570   | 489   |
| 25    | 591   | 3660  | 906   | 726   | 1060  | 1320  | 910   | 830   | 928   | 572   | 704   | 476   |
| 26    | 582   | 3460  | 875   | 710   | 991   | 1130  | 888   | 1210  | 967   | 562   | 553   | 466   |
| 27    | 581   | 5540  | 853   | 699   | 944   | 1030  | 798   | 1070  | 2360  | 564   | 498   | 459   |
| 28    | 896   | 5850  | 827   | 689   | 909   | 973   | 779   | 1290  | 1350  | 624   | 486   | 451   |
| 29    | 3070  | 3610  | 817   | 677   | ---   | 964   | 773   | 1060  | 955   | 608   | 566   | 441   |
| 30    | 4340  | 1950  | 804   | 675   | ---   | 1180  | 778   | 867   | 750   | 578   | 1900  | 429   |
| 31    | 1760  | ---   | 786   | 662   | ---   | 1490  | ---   | 758   | ---   | 564   | 2350  | ---   |
| TOTAL | 31435 | 50176 | 58013 | 22829 | 67856 | 44991 | 33817 | 45863 | 34276 | 37545 | 21131 | 21863 |
| MEAN  | 1014  | 1673  | 1871  | 736   | 2423  | 1451  | 1127  | 1479  | 1143  | 1211  | 682   | 729   |
| MAX   | 4380  | 5850  | 10300 | 907   | 6970  | 4670  | 3530  | 8670  | 2550  | 3850  | 2350  | 1730  |
| MIN   | 563   | 604   | 786   | 660   | 772   | 841   | 773   | 709   | 576   | 562   | 486   | 429   |
| CFSM  | .79   | 1.31  | 1.46  | .58   | 1.89  | 1.13  | .88   | 1.16  | .89   | .95   | .53   | .57   |
| IN.   | .91   | 1.46  | 1.69  | .66   | 1.97  | 1.31  | .98   | 1.33  | 1.00  | 1.09  | .61   | .64   |

CAL YR 1980 TOTAL 1335122 MEAN 3648 MAX 62500 MIN 563 CFSM 2.85 IN 38.80  
WTR YR 1981 TOTAL 469795 MEAN 1287 MAX 10300 MIN 429 CFSM 1.01 IN 13.65

07378500 AMITE RIVER NEAR DENHAM SPRINGS, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1    | 12.70 | 12.57 | 13.39 | 11.73 | 11.73 | 12.01 | 13.75 | 11.53 | 11.40 | 11.31 | 10.97 | 13.53 |
| 2    | 12.82 | 12.16 | 12.88 | 11.69 | 12.65 | 11.96 | 14.47 | 11.83 | 13.64 | 11.56 | 10.97 | 11.81 |
| 3    | 11.81 | 11.91 | 12.54 | 11.66 | 12.77 | 11.90 | 17.35 | 11.43 | 12.95 | 16.74 | 11.04 | 11.64 |
| 4    | 11.50 | 11.75 | 12.30 | 11.65 | 12.46 | 12.28 | 15.75 | 11.25 | 11.96 | 17.94 | 11.48 | 11.70 |
| 5    | 11.35 | 11.63 | 12.14 | 11.61 | 12.60 | 14.43 | 13.50 | 18.12 | 14.61 | 16.09 | 11.20 | 12.46 |
| 6    | 11.26 | 11.54 | 12.04 | 11.62 | 22.14 | 19.00 | 12.76 | 23.42 | 15.22 | 16.18 | 11.41 | 11.65 |
| 7    | 11.20 | 11.48 | 11.95 | 11.99 | 22.34 | 19.35 | 12.36 | 20.59 | 15.54 | 15.40 | 11.01 | 11.26 |
| 8    | 11.19 | 11.44 | 11.87 | 11.92 | 18.57 | 16.62 | 12.12 | 14.70 | 13.14 | 14.15 | 10.96 | 11.05 |
| 9    | 11.17 | 11.38 | 12.51 | 12.07 | 15.02 | 14.01 | 11.98 | 12.69 | 12.20 | 14.09 | 11.01 | 10.93 |
| 10   | 11.16 | 11.38 | 18.79 | 11.82 | 18.64 | 13.21 | 11.86 | 12.55 | 12.01 | 12.81 | 10.89 | 10.85 |
| 11   | 11.15 | 11.35 | 23.05 | 11.68 | 21.97 | 12.79 | 11.77 | 12.89 | 13.04 | 14.23 | 10.84 | 10.79 |
| 12   | 11.13 | 11.34 | 24.11 | ---   | 21.56 | 12.54 | 11.70 | 12.76 | 14.60 | 13.33 | 10.82 | 10.77 |
| 13   | 11.12 | 11.32 | 20.77 | ---   | 17.74 | 12.36 | 11.63 | 12.03 | 12.67 | 12.34 | 10.85 | 11.00 |
| 14   | 11.12 | 11.31 | 15.49 | ---   | 14.91 | 12.23 | 11.55 | 11.81 | 11.80 | 11.87 | 11.64 | 10.95 |
| 15   | 11.11 | 11.53 | 14.02 | ---   | 14.27 | 12.11 | 11.50 | 11.68 | 11.56 | 11.65 | 11.02 | 11.74 |
| 16   | 11.10 | 13.05 | 13.42 | ---   | 14.21 | 12.01 | 11.47 | 11.61 | 11.44 | 11.50 | 10.89 | 13.86 |
| 17   | 11.09 | 14.99 | 13.03 | ---   | 14.13 | 11.91 | 11.49 | 11.60 | 11.33 | 11.38 | 10.99 | 13.47 |
| 18   | 13.59 | 13.15 | 12.75 | ---   | 14.23 | 11.85 | 11.45 | 11.56 | 11.26 | 11.32 | 10.86 | 12.04 |
| 19   | 16.76 | 12.87 | 12.54 | 11.47 | 13.81 | 11.82 | 11.41 | 11.51 | 11.23 | 11.28 | 10.90 | 11.37 |
| 20   | 13.05 | 12.28 | 12.37 | 11.53 | 13.33 | 11.75 | 11.37 | 11.45 | 11.19 | 11.23 | 10.84 | 11.10 |
| 21   | 11.87 | 11.94 | 12.24 | 11.66 | 12.99 | 11.71 | 11.35 | 11.38 | 11.16 | 11.17 | 10.79 | 10.97 |
| 22   | 11.52 | 11.93 | 12.14 | 11.94 | 12.80 | 12.35 | 11.33 | 11.31 | 11.14 | 11.14 | 10.76 | 10.88 |
| 23   | 11.35 | 16.63 | 12.07 | 11.86 | 12.75 | 13.95 | 11.40 | 11.28 | 11.10 | 11.10 | 10.76 | 10.84 |
| 24   | 11.28 | 16.93 | 12.10 | 11.68 | 12.65 | 13.38 | 12.13 | 11.27 | 11.44 | 11.09 | 10.92 | 10.81 |
| 25   | 11.23 | 17.59 | 12.07 | 11.62 | 12.45 | 12.86 | 11.67 | 11.59 | 11.99 | 11.05 | 11.27 | 10.77 |
| 26   | 11.20 | 17.21 | 11.99 | 11.58 | 12.28 | 12.33 | 11.61 | 12.61 | 12.08 | 11.03 | 10.89 | 10.74 |
| 27   | 11.19 | 20.72 | 11.93 | 11.55 | 12.16 | 12.03 | 11.37 | 12.24 | 15.20 | 11.02 | 10.74 | 10.73 |
| 28   | 11.93 | 21.20 | 11.87 | 11.52 | 12.07 | 11.87 | 11.33 | 12.85 | 13.06 | 11.17 | 10.71 | 10.71 |
| 29   | 16.35 | 17.49 | 11.84 | 11.49 | ---   | 11.85 | 11.31 | 12.21 | 12.06 | 11.13 | 10.93 | 10.68 |
| 30   | 18.83 | 14.40 | 11.81 | 11.49 | ---   | 12.47 | 11.32 | 11.71 | 11.53 | 11.04 | ---   | 10.65 |
| 31   | 14.00 | ---   | 11.76 | 11.45 | ---   | 13.30 | ---   | 11.45 | ---   | 11.01 | ---   | ---   |
| MEAN | 12.20 | 13.55 | 13.67 | ---   | 14.97 | 13.04 | 12.20 | 12.80 | 12.45 | 12.53 | ---   | 11.39 |
| MAX  | 18.83 | 21.20 | 24.11 | 12.07 | 22.34 | 19.35 | 17.35 | 23.42 | 15.54 | 17.94 | ---   | 13.86 |
| MIN  | 11.09 | 11.31 | 11.76 | 11.45 | 11.73 | 11.71 | 11.31 | 11.25 | 11.10 | 11.01 | 10.71 | 10.65 |



## MISSISSIPPI RIVER DELTA

07378510 AMITE RIVER AT 4-H CAMP, NEAR DENHAM SPRINGS, LA  
(National stream-quality accounting network station)

LOCATION.--Lat 30°26'30", long 90°58'20", in lot 41, T. 7 S., R. 2 E., St. Helena meridian, Livingston Parish, Hydrologic Unit 08070202, on left bank, 3.0 mi (4.8 km) downstream from gaging station Amite River near Denham Springs (station 07378500), 3.0 mi (4.8 km) southwest of town of Denham Springs, and 3.2 mi (5.1 km) downstream from Comite River.

DRAINAGE AREA.--1,290 mi<sup>2</sup> (3,340 km<sup>2</sup>), approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1973 to September 1975, February 1977 to current year (elevations only). Unpublished records, October 1945 to September 1973, available in files of Baton Rouge district office.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Dec. 23, 1952, nonrecording gage at same site. Prior to Oct. 1, 1977, at datum 3.12 ft (0.951 m) higher.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 38.21 ft (11.646 m), present datum, Apr. 23, 1977; minimum, 6.02 ft (1.835 m), present datum, Nov. 4-6, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation since October 1945, 38.21 ft (11.646 m) Apr. 23, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 20.93 ft (6.379 m) May 6; minimum, 6.33 ft (1.929 m) Sept. 30.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN  | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP  |
|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|------|
| 1    | ---   | 8.39  | 9.30  | 7.54 | 7.47  | 7.91  | 9.86  | 7.34  | 7.80  | 7.88  | 6.60  | 9.84 |
| 2    | ---   | 7.86  | 8.71  | 7.49 | 8.54  | 7.85  | 10.30 | 7.82  | 10.05 | 8.02  | 6.62  | 7.70 |
| 3    | 7.59  | 7.58  | 8.33  | 7.46 | 8.66  | 7.79  | 13.44 | 7.36  | 9.82  | 13.26 | 6.64  | 7.43 |
| 4    | 7.28  | 7.40  | 8.06  | 7.43 | 8.42  | 8.11  | 12.32 | 7.11  | 8.46  | 15.09 | 7.22  | 7.43 |
| 5    | 7.13  | 7.28  | 7.89  | 7.41 | 8.43  | 10.21 | 9.70  | 13.34 | 11.33 | 13.45 | 6.91  | 8.41 |
| 6    | 7.04  | 7.19  | 7.78  | 7.41 | 18.12 | 14.81 | 8.80  | 19.91 | 12.15 | 13.10 | 7.13  | 7.52 |
| 7    | 6.98  | 7.12  | 7.68  | 7.81 | 19.13 | 15.77 | 8.35  | 18.30 | 12.87 | 12.62 | 6.73  | 7.04 |
| 8    | 6.95  | 7.08  | 7.60  | 7.73 | 15.91 | 13.36 | 8.07  | 12.13 | 10.15 | 11.16 | 6.62  | 6.78 |
| 9    | 6.94  | 7.03  | 7.99  | 7.92 | 11.54 | 10.26 | 7.91  | 9.07  | 8.86  | 11.03 | 6.69  | 6.62 |
| 10   | 6.93  | 7.05  | 14.14 | 7.67 | 14.43 | 9.28  | 7.78  | 8.69  | 8.56  | 9.64  | 6.56  | 6.52 |
| 11   | 6.92  | 7.04  | 18.47 | 7.51 | 18.32 | 8.82  | 7.68  | 9.08  | 9.81  | 11.36 | 6.49  | 6.46 |
| 12   | 6.90  | 7.02  | 20.49 | 7.42 | 18.46 | 8.53  | 7.59  | 9.00  | 11.58 | 10.22 | 6.47  | 6.43 |
| 13   | 6.89  | 7.01  | 18.23 | 7.38 | 15.05 | 8.33  | 7.52  | 8.18  | 9.55  | 9.12  | 6.45  | 6.70 |
| 14   | 6.86  | 7.00  | 12.41 | 7.35 | 11.52 | 8.18  | 7.43  | 7.85  | 8.41  | 8.52  | 7.39  | 6.65 |
| 15   | 6.84  | 7.16  | 10.14 | 7.34 | 10.60 | 8.05  | 7.37  | 7.64  | 8.08  | 8.25  | 6.76  | 7.48 |
| 16   | 6.83  | 8.46  | 9.41  | 7.34 | 10.53 | 7.94  | 7.31  | 7.55  | 7.95  | 8.08  | 6.54  | 9.66 |
| 17   | 6.82  | 10.88 | 8.96  | 7.31 | 10.42 | 7.83  | 7.34  | 7.58  | 7.81  | 7.94  | 6.67  | 9.77 |
| 18   | 8.93  | 9.12  | 8.66  | 7.28 | 10.48 | 7.76  | 7.33  | 7.57  | 7.73  | 7.86  | 6.53  | 8.08 |
| 19   | 12.97 | 8.67  | 8.44  | 7.25 | 10.10 | 7.72  | 7.25  | 7.54  | 7.67  | 7.81  | 6.57  | 7.24 |
| 20   | 9.13  | 8.08  | 8.25  | 7.27 | 9.56  | 7.65  | 7.19  | 7.44  | 7.62  | 7.77  | 6.50  | 6.89 |
| 21   | 7.62  | 7.69  | 8.11  | 7.27 | 9.18  | 7.60  | 7.14  | 7.37  | 7.60  | 7.69  | 6.45  | 6.71 |
| 22   | 7.22  | 7.57  | 8.00  | 7.54 | 8.95  | 8.17  | 7.11  | 7.34  | 7.57  | 7.63  | 6.40  | 6.60 |
| 23   | 7.03  | 12.21 | 7.93  | 7.42 | 8.87  | 9.91  | 7.15  | 7.32  | 7.51  | 7.61  | 6.41  | 6.55 |
| 24   | 6.96  | 12.68 | 7.92  | 6.95 | 8.76  | 9.47  | 8.08  | 7.32  | 7.85  | 7.59  | 6.51  | 6.51 |
| 25   | 6.91  | 13.82 | 7.91  | 6.83 | 8.47  | 8.91  | 7.55  | 7.69  | 8.59  | 7.55  | 7.03  | 6.47 |
| 26   | 6.88  | 13.02 | 7.82  | 6.87 | 8.22  | 8.34  | 7.59  | 8.91  | 8.49  | 7.52  | 6.60  | 6.43 |
| 27   | 6.87  | 16.26 | 7.77  | 6.97 | 8.09  | 7.98  | 7.24  | 8.53  | 12.08 | 6.94  | 6.41  | 6.42 |
| 28   | 7.52  | 17.46 | 7.69  | 6.71 | 7.99  | 7.80  | 7.10  | 9.22  | 9.98  | 6.79  | 6.35  | 6.40 |
| 29   | 11.48 | 14.39 | 7.66  | 6.58 | ---   | 7.76  | 7.05  | 8.68  | 8.79  | 6.78  | 6.57  | 6.36 |
| 30   | 15.04 | 10.60 | 7.62  | 6.81 | ---   | 8.46  | 7.05  | 8.19  | 8.16  | 6.69  | 9.02  | 6.33 |
| 31   | 10.35 | ---   | 7.58  | 7.24 | ---   | 9.18  | ---   | 7.87  | ---   | 6.66  | 10.71 | ---  |
| MEAN | ---   | 9.34  | 9.58  | 7.31 | 11.22 | 9.02  | 8.12  | 9.00  | 9.10  | 9.08  | 6.86  | 7.18 |
| MAX  | 15.04 | 17.46 | 20.49 | 7.92 | 19.13 | 15.77 | 13.44 | 19.91 | 12.87 | 15.09 | 10.71 | 9.84 |
| MIN  | 6.82  | 7.00  | 7.58  | 6.58 | 7.47  | 7.60  | 7.05  | 7.11  | 7.51  | 6.66  | 6.35  | 6.33 |

07378510 AMITE RIVER AT 4-H CAMP, NEAR DENHAM SPRINGS, LA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1952-53, 1973 to current year.

## PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1973 to April 1979, March 1981 to September 1981 (discontinued).

WATER TEMPERATURES: March 1973 to April 1979, March 1981 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor March 1973 to April 1980.

REMARKS.--Lower limit of specific conductance sensor is 28 micromhos. Probes are 3.0 ft (0.9 m) above bottom of river. Flow data are available for Amite River near Denham Springs (station 07378500), 3.0 mi (4.8 km) upstream.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 156 micromhos Mar. 10, 1974; minimum, 28 micromhos or lower on several days during spring of each year.

WATER TEMPERATURES: Maximum, 33.0°C July 31, Aug. 1, 1976, July 25, 28, Aug. 3, 17, 1981; minimum, 7.5°C Dec. 27, 1975, Jan. 9, 1976.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 106 micromhos Mar. 30; minimum daily, 31 micromhos July 4, 5.

WATER TEMPERATURES: Maximum daily, 33.0°C July 25, 28, Aug. 3, 17; minimum daily, 16.0°C Mar. 19, 21, 23, 24.

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

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCTI-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) |
|-------|------|-------------------------------------------------|----------------------------------------------------|---------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------|
| OCT   |      |                                                 |                                                    |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 14... | 1300 | 564                                             | 55                                                 | 6.4           | 21.5                        | 5                                            | 4.9                          | 9.0                                 | .5                                                             | 160                                                            | 340                                                                | 10                                     |
| NOV   |      |                                                 |                                                    |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 05... | 0945 | 732                                             | 57                                                 | 6.2           | 22.5                        | 20                                           | 23                           | 9.9                                 | 2.9                                                            | 180                                                            | 180                                                                | 10                                     |
| DEC   |      |                                                 |                                                    |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 05... | 1045 | 936                                             | 53                                                 | 6.0           | 13.5                        | --                                           | 22                           | 9.8                                 | 1.0                                                            | 160                                                            | K65                                                                | 12                                     |
| JAN   |      |                                                 |                                                    |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 12... | 1100 | --                                              | 55                                                 | 6.3           | 7.0                         | 15                                           | 3.0                          | 11.2                                | 1.7                                                            | 170                                                            | K180                                                               | 11                                     |
| FEB   |      |                                                 |                                                    |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 18... | 0945 | 1880                                            | 54                                                 | 6.1           | 14.0                        | 40                                           | 37                           | 9.7                                 | --                                                             | K380                                                           | 780                                                                | 12                                     |
| MAR   |      |                                                 |                                                    |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 11... | 1230 | 1280                                            | 49                                                 | 5.6           | 17.5                        | 40                                           | 32                           | 9.4                                 | 1.3                                                            | 330                                                            | 170                                                                | 12                                     |
| APR   |      |                                                 |                                                    |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 15... | 1000 | 836                                             | 57                                                 | 6.3           | 25.0                        | 30                                           | 11                           | 8.2                                 | .2                                                             | 120                                                            | 140                                                                | 12                                     |
| MAY   |      |                                                 |                                                    |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 04... | 1200 | 756                                             | 61                                                 | 6.2           | 24.5                        | 10                                           | 10                           | 8.7                                 | 1.4                                                            | 140                                                            | 270                                                                | 11                                     |
| JUN   |      |                                                 |                                                    |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 10... | 1015 | 1420                                            | 60                                                 | 5.7           | 29.5                        | 40                                           | 23                           | 6.8                                 | --                                                             | 5600                                                           | --                                                                 | 12                                     |
| JUL   |      |                                                 |                                                    |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 06... | 1430 | 3120                                            | 47                                                 | 5.4           | 26.5                        | 50                                           | 72                           | 7.2                                 | 3.4                                                            | 2700                                                           | 4300                                                               | 9                                      |
| AUG   |      |                                                 |                                                    |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 10... | 1200 | 539                                             | 52                                                 | 6.6           | 29.5                        | 15                                           | 13                           | 7.6                                 | 2.4                                                            | K200                                                           | --                                                                 | 11                                     |
| SEP   |      |                                                 |                                                    |               |                             |                                              |                              |                                     |                                                                |                                                                |                                                                    |                                        |
| 02... | 1500 | 892                                             | 54                                                 | 6.6           | 29.0                        | 60                                           | 54                           | 7.1                                 | 1.2                                                            | 1800                                                           | 2900                                                               | 11                                     |

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

07378510 AMITE RIVER AT 4-H CAMP, NEAR DENHAM SPRINGS, LA--Continued

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

| DATE      | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>FIELD<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) |
|-----------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|
| OCT 14... | 0                                                      | 2.5                                          | .9                                                   | 6.3                                          | 1.5                                                 | 14                                              | 2.6                                           | 6.7                                                 | .1                                                 | 13                                                | 47                                                                 | 42                                                             |
| NOV 05... | 0                                                      | 2.5                                          | 1.0                                                  | 6.0                                          | 2.0                                                 | 13                                              | 1.7                                           | 6.8                                                 | .1                                                 | 12                                                | 49                                                                 | 40                                                             |
| DEC 05... | 0                                                      | 2.8                                          | 1.3                                                  | 4.1                                          | 2.3                                                 | 12                                              | 4.4                                           | 5.0                                                 | .1                                                 | 12                                                | 36                                                                 | 39                                                             |
| JAN 12... | 0                                                      | 3.2                                          | .7                                                   | 6.4                                          | 1.2                                                 | 11                                              | 3.7                                           | 7.1                                                 | .1                                                 | 11                                                | 44                                                                 | 41                                                             |
| FEB 18... | 0                                                      | 2.8                                          | 1.1                                                  | 5.3                                          | 1.9                                                 | 11                                              | 3.1                                           | 6.2                                                 | .1                                                 | 11                                                | 48                                                                 | 39                                                             |
| MAR 11... | 4                                                      | 2.9                                          | 1.2                                                  | 5.2                                          | 1.8                                                 | 8                                               | 3.2                                           | 7.2                                                 | .1                                                 | 11                                                | 46                                                                 | 38                                                             |
| APR 15... | 0                                                      | 2.8                                          | 1.1                                                  | 5.9                                          | 1.4                                                 | 16                                              | 1.5                                           | 6.6                                                 | .1                                                 | 12                                                | 52                                                                 | 40                                                             |
| MAY 04... | 0                                                      | 2.6                                          | 1.0                                                  | 6.0                                          | 1.9                                                 | 14                                              | 2.3                                           | 6.1                                                 | .1                                                 | 11                                                | 45                                                                 | 39                                                             |
| JUN 10... | 0                                                      | 2.9                                          | 1.2                                                  | 4.6                                          | 2.5                                                 | 15                                              | 2.2                                           | 5.7                                                 | .1                                                 | 11                                                | 49                                                                 | 40                                                             |
| JUL 06... | 2                                                      | 2.4                                          | .8                                                   | 3.5                                          | 2.4                                                 | 7                                               | 3.4                                           | 4.3                                                 | .1                                                 | 8.1                                               | 42                                                                 | 29                                                             |
| AUG 10... | 0                                                      | 2.4                                          | 1.2                                                  | 5.9                                          | 1.6                                                 | 16                                              | <1.0                                          | 6.8                                                 | .0                                                 | 13                                                | 47                                                                 | 42                                                             |
| SEP 02... | 0                                                      | 2.4                                          | 1.1                                                  | 4.8                                          | 2.6                                                 | 12                                              | 2.0                                           | 5.6                                                 | .0                                                 | 9.9                                               | 45                                                                 | 36                                                             |

| DATE      | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>SUS-<br>PENDED<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|
| OCT 14... | .06                                                  | .05                                                           | .06                                                  | .05                                                           | .88                                                                | .60                                                                         | .09                                         | .05                                                  | --                                            | 2.5                                                    | .9                                                              |
| NOV 05... | .20                                                  | .20                                                           | .15                                                  | .06                                                           | .77                                                                | .75                                                                         | .21                                         | .18                                                  | 3.7                                           | --                                                     | --                                                              |
| DEC 05... | .26                                                  | .26                                                           | .13                                                  | .06                                                           | .86                                                                | .83                                                                         | --                                          | --                                                   | 3.3                                           | --                                                     | --                                                              |
| JAN 12... | .21                                                  | .22                                                           | .06                                                  | .09                                                           | .60                                                                | .62                                                                         | .08                                         | .04                                                  | --                                            | 2.1                                                    | .6                                                              |
| FEB 18... | .35                                                  | .28                                                           | .04                                                  | .04                                                           | .87                                                                | .79                                                                         | .20                                         | .07                                                  | 6.3                                           | --                                                     | --                                                              |
| MAR 11... | .23                                                  | .27                                                           | .08                                                  | .11                                                           | 1.3                                                                | 1.5                                                                         | .09                                         | .04                                                  | 6.4                                           | --                                                     | --                                                              |
| APR 15... | .15                                                  | .16                                                           | .05                                                  | .07                                                           | .68                                                                | .71                                                                         | .09                                         | .05                                                  | --                                            | 3.4                                                    | .2                                                              |
| MAY 04... | .27                                                  | .29                                                           | .09                                                  | .08                                                           | 1.1                                                                | .57                                                                         | .34                                         | .28                                                  | 3.7                                           | --                                                     | --                                                              |
| JUN 10... | .32                                                  | .35                                                           | --                                                   | .20                                                           | 1.1                                                                | 1.3                                                                         | .14                                         | .05                                                  | 5.8                                           | --                                                     | --                                                              |
| JUL 06... | .33                                                  | .31                                                           | .19                                                  | .17                                                           | 1.5                                                                | .94                                                                         | .24                                         | .08                                                  | --                                            | 6.7                                                    | .4                                                              |
| AUG 10... | .15                                                  | .19                                                           | --                                                   | .23                                                           | .77                                                                | .55                                                                         | .10                                         | .00                                                  | 3.2                                           | --                                                     | --                                                              |
| SEP 02... | .34                                                  | .35                                                           | .08                                                  | .00                                                           | .83                                                                | .88                                                                         | .20                                         | .10                                                  | 4.2                                           | --                                                     | --                                                              |

&lt; Actual value is known to be less than the value shown.

07378510 AMITE RIVER AT 4-H CAMP, NEAR DENHAM SPRINGS, LA--Continued

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

| DATE         | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BA) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) |
|--------------|-------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|
| OCT<br>14... | 1                                   | 1                                            | --                                                      | 30                                           | 0                                                       | <1                                           | 0                                                              | 0                                                   | 1                                                       | <3                                           |
| JAN<br>12... | 0                                   | 0                                            | --                                                      | 30                                           | 0                                                       | <1                                           | 0                                                              | 0                                                   | 0                                                       | <3                                           |
| APR<br>15... | 1                                   | 1                                            | 100                                                     | 30                                           | 0                                                       | 1                                            | 20                                                             | 0                                                   | 3                                                       | <3                                           |
| JUL<br>06... | 2                                   | 1                                            | 100                                                     | 30                                           | 0                                                       | <1                                           | 10                                                             | 0                                                   | 1                                                       | <1                                           |

| DATE         | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) |
|--------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|
| OCT<br>14... | 9                                                       | 4                                            | 1100                                                  | 260                                        | 3                                                     | 2                                          | 150                                                             | 110                                                  | .0                                                      |
| JAN<br>12... | 9                                                       | 6                                            | 1100                                                  | 130                                        | 24                                                    | 2                                          | 340                                                             | 320                                                  | .4                                                      |
| APR<br>15... | 5                                                       | 6                                            | 1100                                                  | 390                                        | 3                                                     | 0                                          | 200                                                             | 180                                                  | .1                                                      |
| JUL<br>06... | 6                                                       | 2                                            | 4700                                                  | 120                                        | 3                                                     | 1                                          | 310                                                             | 50                                                   | .2                                                      |

| DATE         | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AG) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| OCT<br>14... | .0                                           | 0                                                       | 0                                            | 0                                                              | 0                                                   | 1                                                       | 0                                            | 0                                                     | 7                                          |
| JAN<br>12... | .1                                           | 0                                                       | 0                                            | 0                                                              | 0                                                   | 1                                                       | 1                                            | --                                                    | 20                                         |
| APR<br>15... | .0                                           | --                                                      | 7                                            | 0                                                              | 0                                                   | 0                                                       | 2                                            | --                                                    | 10                                         |
| JUL<br>06... | .0                                           | 3                                                       | 0                                            | 0                                                              | 1                                                   | 0                                                       | 0                                            | 110                                                   | 20                                         |

| DATE         | PHYTO-<br>PLANK-<br>TON,<br>TOTAL<br>(CELLS<br>PER ML) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDED<br>(T/DAY) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|--------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|
| OCT<br>14... | --                                                     | 44                                         | 67                                                             | 66                                                            |
| NOV<br>05... | 620                                                    | 48                                         | 95                                                             | 92                                                            |
| DEC<br>05... | --                                                     | 42                                         | 106                                                            | 95                                                            |
| JAN<br>12... | --                                                     | 22                                         | --                                                             | 96                                                            |
| FEB<br>18... | --                                                     | 86                                         | 437                                                            | 93                                                            |
| MAR<br>11... | 590                                                    | 60                                         | 207                                                            | 92                                                            |
| APR<br>15... | --                                                     | 41                                         | 93                                                             | 92                                                            |
| MAY<br>04... | 2200                                                   | 29                                         | 59                                                             | 93                                                            |
| JUN<br>10... | 8100                                                   | 59                                         | 226                                                            | 94                                                            |
| JUL<br>06... | 3700                                                   | 292                                        | 2460                                                           | 98                                                            |
| AUG<br>10... | 860                                                    | 51                                         | 74                                                             | 78                                                            |
| SEP<br>02... | --                                                     | 68                                         | 164                                                            | 96                                                            |

&lt; Actual value is known to be less than the value shown.

## MISSISSIPPI RIVER DELTA

07378510 AMITE RIVER AT 4-H CAMP, NEAR DENHAM SPRINGS, LA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 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   |     |     |     |     |     | --- | 45  | 78  | 58  | 47  | 55  | --- |
| 2   |     |     |     |     |     | --- | 42  | 49  | 59  | --- | 54  | 61  |
| 3   |     |     |     |     |     | --- | 32  | 49  | 48  | 45  | 54  | 58  |
| 4   |     |     |     |     |     | --- | 45  | 72  | 52  | 31  | 56  | 60  |
| 5   |     |     |     |     |     | --- | 46  | 70  | 40  | 31  | 56  | 44  |
| 6   |     |     |     |     |     | --- | 48  | 39  | 56  | 48  | 84  | 44  |
| 7   |     |     |     |     |     | --- | 49  | 37  | 44  | 38  | 82  | 51  |
| 8   |     |     |     |     |     | --- | 50  | 48  | 49  | 40  | 60  | 50  |
| 9   |     |     |     |     |     | --- | 51  | 48  | 50  | 44  | 54  | 52  |
| 10  |     |     |     |     |     | --- | 53  | 55  | 84  | 45  | 50  | 53  |
| 11  |     |     |     |     |     | --- | 53  | 54  | 83  | 52  | 52  | 51  |
| 12  |     |     |     |     |     | --- | 52  | 48  | 63  | 52  | 52  | 52  |
| 13  |     |     |     |     |     | --- | 54  | 51  | 59  | 49  | 58  | 68  |
| 14  |     |     |     |     |     | --- | --- | 60  | 58  | 49  | 58  | 68  |
| 15  |     |     |     |     |     | --- | 54  | 55  | 55  | 49  | 54  | 75  |
| 16  |     |     |     |     |     | --- | 52  | 52  | 55  | 51  | 55  | 75  |
| 17  |     |     |     |     |     | 51  | 75  | 53  | 56  | 52  | 51  | 42  |
| 18  |     |     |     |     |     | 53  | 61  | 53  | 55  | 54  | 50  | 42  |
| 19  |     |     |     |     |     | 52  | 56  | 51  | 55  | 53  | 51  | 52  |
| 20  |     |     |     |     |     | 52  | 54  | 52  | --- | 53  | 49  | 53  |
| 21  |     |     |     |     |     | 52  | 53  | 53  | --- | 54  | 48  | 54  |
| 22  |     |     |     |     |     | 82  | 54  | 53  | 55  | 59  | 48  | 53  |
| 23  |     |     |     |     |     | 55  | 98  | 53  | 55  | 59  | 57  | 55  |
| 24  |     |     |     |     |     | 50  | 98  | 53  | 58  | 52  | 56  | 53  |
| 25  |     |     |     |     |     | 47  | 64  | 53  | 60  | 53  | 44  | 52  |
| 26  |     |     |     |     |     | 49  | 52  | 63  | 53  | 68  | 45  | 52  |
| 27  |     |     |     |     |     | 55  | 52  | 62  | 53  | 68  | 54  | 51  |
| 28  |     |     |     |     |     | 55  | 53  | 43  | 41  | 59  | 54  | 52  |
| 29  |     |     |     |     |     | 54  | 52  | 43  | 41  | 59  | 43  | 53  |
| 30  |     |     |     |     |     | 106 | 54  | 50  | 46  | 59  | 42  | 53  |
| 31  |     |     |     |     |     | 59  | --- | 50  | --- | 59  | 55  | --- |
| MAX |     |     |     |     |     | --- | 98  | 78  | 84  | 68  | 84  | 75  |
| MIN |     |     |     |     |     | --- | 32  | 37  | 40  | 31  | 42  | 42  |

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   |     |     |     |     |     | ---  | 19.5 | 25.0 | 26.0 | 29.0 | 32.0 | ---  |
| 2   |     |     |     |     |     | ---  | 20.0 | 25.0 | 27.0 | 27.0 | 32.0 | 29.0 |
| 3   |     |     |     |     |     | ---  | 19.0 | 24.0 | 27.0 | 25.0 | 33.0 | 28.0 |
| 4   |     |     |     |     |     | ---  | 20.0 | 25.0 | 27.0 | 26.0 | 30.0 | 28.0 |
| 5   |     |     |     |     |     | ---  | 21.0 | 23.0 | 26.0 | 27.0 | 31.0 | 28.0 |
| 6   |     |     |     |     |     | ---  | 21.5 | 22.0 | 27.0 | 25.0 | 30.0 | 29.0 |
| 7   |     |     |     |     |     | ---  | 22.0 | 22.0 | 27.0 | 26.0 | 30.0 | 30.0 |
| 8   |     |     |     |     |     | ---  | 21.0 | 23.0 | 27.0 | 28.0 | 31.0 | 28.0 |
| 9   |     |     |     |     |     | ---  | 21.0 | 24.0 | 28.0 | 29.0 | 30.0 | 27.0 |
| 10  |     |     |     |     |     | ---  | 24.0 | 24.0 | 27.0 | 30.0 | 29.5 | 26.0 |
| 11  |     |     |     |     |     | ---  | 24.0 | 22.0 | 28.0 | 30.0 | 30.0 | 27.0 |
| 12  |     |     |     |     |     | ---  | 25.0 | 23.0 | 27.0 | 29.0 | 31.0 | 28.0 |
| 13  |     |     |     |     |     | ---  | 24.0 | 23.0 | 29.0 | 30.0 | 30.0 | 27.0 |
| 14  |     |     |     |     |     | ---  | ---  | 24.0 | 30.0 | 29.0 | 31.0 | 28.0 |
| 15  |     |     |     |     |     | ---  | 24.0 | 23.0 | 31.0 | 30.0 | 32.0 | 26.0 |
| 16  |     |     |     |     |     | ---  | 26.0 | 24.0 | 30.0 | 30.0 | 31.0 | 27.0 |
| 17  |     |     |     |     |     | ---  | 26.0 | 25.0 | 30.0 | 31.0 | 33.0 | 25.0 |
| 18  |     |     |     |     |     | 19.0 | 25.0 | 26.0 | 29.0 | 30.0 | 31.0 | 25.0 |
| 19  |     |     |     |     |     | 16.0 | 27.0 | 25.0 | 31.0 | 32.0 | 32.0 | 26.0 |
| 20  |     |     |     |     |     | 16.5 | 27.0 | 23.0 | ---  | 32.0 | 31.0 | 27.0 |
| 21  |     |     |     |     |     | 16.0 | 27.0 | 24.0 | ---  | 31.0 | 31.0 | 25.0 |
| 22  |     |     |     |     |     | ---  | 27.0 | 25.0 | 31.0 | 31.0 | 32.0 | 26.0 |
| 23  |     |     |     |     |     | 16.0 | 27.0 | 24.0 | 30.0 | 32.0 | 31.0 | 26.0 |
| 24  |     |     |     |     |     | 16.0 | 25.0 | 25.0 | 28.0 | 31.0 | 30.0 | 25.0 |
| 25  |     |     |     |     |     | 17.0 | 26.0 | 25.0 | 30.0 | 33.0 | 31.0 | 26.0 |
| 26  |     |     |     |     |     | 18.0 | 26.0 | 24.0 | 29.0 | 30.0 | 30.0 | 25.0 |
| 27  |     |     |     |     |     | 17.0 | 24.0 | 25.0 | 30.0 | 32.0 | 31.0 | 28.0 |
| 28  |     |     |     |     |     | 18.0 | 26.0 | 26.0 | 30.0 | 33.0 | 30.0 | 26.0 |
| 29  |     |     |     |     |     | 16.5 | 25.0 | 26.0 | 29.0 | 31.0 | 30.0 | 25.0 |
| 30  |     |     |     |     |     | 18.5 | 25.0 | 26.0 | 30.0 | 32.0 | 29.0 | 27.0 |
| 31  |     |     |     |     |     | 18.0 | ---  | 27.0 | ---  | 31.0 | 28.0 | ---  |
| MAX |     |     |     |     |     | ---  | 27.0 | 27.0 | 31.0 | 33.0 | 33.0 | 30.0 |
| MIN |     |     |     |     |     | ---  | 19.0 | 22.0 | 26.0 | 25.0 | 28.0 | 25.0 |

07378510 AMITE RIVER AT 4-H CAMP, NEAR DENHAM SPRINGS, LA--Continued

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

| DATE<br>TIME        | NOV 5,80<br>0945 | MAR 11,81<br>1230 | MAY 4,81<br>1200 | JUN 10,81<br>1015 | JUL 6,81<br>1430 | AUG 10,81<br>1200 |
|---------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|
| TOTAL CELLS/ML      | 620              | 590               | 2200             | 8100              | 3700             | 860               |
| DIVERSITY: DIVISION | 0.6              | 1.5               | 1.1              | 1.4               | 1.1              | 0.9               |
| ..CLASS             | 0.6              | 1.5               | 1.1              | 1.4               | 1.1              | 0.9               |
| ..ORDER             | 1.2              | 2.1               | 1.3              | 1.8               | 1.5              | 1.1               |
| ...FAMILY           | 1.4              | 2.5               | 2.3              | 2.6               | 2.3              | 2.2               |
| ....GENUS           | 1.4              | 2.8               | 3.0              | 3.4               | 2.4              | 2.8               |

| ORGANISM                   | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT |
|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| CHLOROPHYTA (GREEN ALGAE)  |              |              |              |              |              |              |              |              |              |              |              |              |
| ..CHLOROPHYCEAE            |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHLOROCOCCALES          |              |              |              |              |              |              |              |              |              |              |              |              |
| ....CHARACTIACEAE          |              |              |              |              |              |              |              |              |              |              |              |              |
| ....SCHROEDERIA            | --           | -            | --           | -            | --           | -            | 47           | 1            | 28           | 1            | 14           | 2            |
| ....COELASTRACEAE          |              |              |              |              |              |              |              |              |              |              |              |              |
| ....COELASTRUM             | --           | -            | --           | -            | 90           | 4            | 560          | 7            | --           | -            | --           | -            |
| ....HYDRODICTYACEAE        |              |              |              |              |              |              |              |              |              |              |              |              |
| ....PENIASTRUM             | --           | -            | --           | -            | --           | -            | 140          | 2            | --           | -            | --           | -            |
| ....MICRACTINIACEAE        |              |              |              |              |              |              |              |              |              |              |              |              |
| ....GOLFENKINTIA           | --           | -            | --           | -            | --           | -            | --           | -            | --           | -            | 14           | 2            |
| ....MICRACTINIUM           | 52           | 8            | --           | -            | 100          | 5            | 47           | 1            | --           | -            | --           | -            |
| ....OOCYSTACEAE            |              |              |              |              |              |              |              |              |              |              |              |              |
| ....ANKISTRODES MUS        | --           | -            | 39           | 7            | 170          | 8            | 510          | 6            | 28           | 1            | 130          | 15           |
| ....CHODATELLA             | --           | -            | --           | -            | --           | -            | --           | -            | --           | -            | 57           | 7            |
| ....DICTYOSPHAERIUM        | --           | -            | 100#         | 17           | --           | -            | 280          | 3            | 320          | 9            | --           | -            |
| ....KIRCHNERIELLA          | --           | -            | --           | -            | 77           | 3            | *            | 0            | --           | -            | 14           | 2            |
| ....OOCYSTIS               | --           | -            | --           | -            | --           | -            | 93           | 1            | --           | -            | --           | -            |
| ....SELENASTRUM            | --           | -            | 13           | 2            | --           | -            | 93           | 1            | --           | -            | --           | -            |
| ....TETRAEDRON             | --           | -            | --           | -            | --           | -            | *            | 0            | *            | 0            | --           | -            |
| ....TREPUBARIA             | 26           | 4            | --           | -            | --           | -            | --           | -            | --           | -            | --           | -            |
| ....WESTELLA               | --           | -            | --           | -            | 13           | 1            | --           | -            | --           | -            | --           | -            |
| ....SCENEDESMACEAE         |              |              |              |              |              |              |              |              |              |              |              |              |
| ....ACTINASTRUM            | --           | -            | --           | -            | 100          | 5            | --           | -            | --           | -            | --           | -            |
| ....CRUCIGENIA             | --           | -            | --           | -            | 210          | 9            | 560          | 7            | 56           | 1            | 57           | 7            |
| ....SCENEDESMUS            | 13           | 2            | 52           | 9            | 810#         | 36           | 980          | 12           | 110          | 3            | 370#         | 43           |
| ....TETRASTRUM             | --           | -            | --           | -            | --           | -            | 93           | 1            | --           | -            | --           | -            |
| ..VOLVOCALES               |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHLAMYDOMONADACEAE      |              |              |              |              |              |              |              |              |              |              |              |              |
| ....CHLAMYDOMONAS          | --           | -            | 26           | 4            | 77           | 3            | 47           | 1            | 28           | 1            | --           | -            |
| ..ZYGNEMATALES             |              |              |              |              |              |              |              |              |              |              |              |              |
| ...DESMIDIACEAE            |              |              |              |              |              |              |              |              |              |              |              |              |
| ....COSMARIIUM             | --           | -            | --           | -            | 13           | 1            | --           | -            | --           | -            | --           | -            |
| ....STAUSTRUM              | --           | -            | 13           | 2            | --           | -            | --           | -            | --           | -            | --           | -            |
| CHRYSOPHYTA                |              |              |              |              |              |              |              |              |              |              |              |              |
| ..BACILLARIOPHYCEAE        |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CENTRALES               |              |              |              |              |              |              |              |              |              |              |              |              |
| ....COSCINODISCACEAE       |              |              |              |              |              |              |              |              |              |              |              |              |
| ....CYCLOTELLA             | --           | -            | --           | -            | --           | -            | 300          | 4            | --           | -            | --           | -            |
| ....MELOSTRA               | --           | -            | --           | -            | 26           | 1            | --           | -            | 42           | 1            | 29           | 3            |
| ...PENNACEAE               |              |              |              |              |              |              |              |              |              |              |              |              |
| ....ACHNANTHACEAE          |              |              |              |              |              |              |              |              |              |              |              |              |
| ....ACHNANTHES             | --           | -            | --           | -            | --           | -            | 47           | 1            | --           | -            | --           | -            |
| ....COCCONEFIS             | --           | -            | --           | -            | --           | -            | *            | 0            | --           | -            | --           | -            |
| ....CYMBELLACEAE           |              |              |              |              |              |              |              |              |              |              |              |              |
| ....CYMBELLA               | --           | -            | --           | -            | 13           | 1            | 47           | 1            | 70           | 2            | --           | -            |
| ....EUNOTIACEAE            |              |              |              |              |              |              |              |              |              |              |              |              |
| ....EUNOTIA                | --           | -            | --           | -            | --           | -            | --           | -            | *            | 0            | --           | -            |
| ....FRAGILIARIACEAE        |              |              |              |              |              |              |              |              |              |              |              |              |
| ....SYNEDRA                | --           | -            | 26           | 4            | --           | -            | --           | -            | 28           | 1            | 29           | 3            |
| ....GOMPHONEMACEAE         |              |              |              |              |              |              |              |              |              |              |              |              |
| ....GOMPHONEMA             | --           | -            | --           | -            | 13           | 1            | --           | -            | --           | -            | --           | -            |
| ....NAVICULACEAE           |              |              |              |              |              |              |              |              |              |              |              |              |
| ....GYROSTIGMA             | --           | -            | --           | -            | --           | -            | --           | -            | --           | -            | 14           | 2            |
| ....NAVICULA               | --           | -            | --           | -            | 13           | 1            | --           | -            | 98           | 3            | 57           | 7            |
| ....NITZSCHIA              | --           | -            | 39           | 7            | 26           | 1            | 160          | 2            | 98           | 3            | 43           | 5            |
| CRYPTOPHYTA (CRYPTOMONADS) |              |              |              |              |              |              |              |              |              |              |              |              |
| ..CRYPTOPHYCEAE            |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CRYPTOMONADALES         |              |              |              |              |              |              |              |              |              |              |              |              |
| ....CRYPTOMONADACEAE       |              |              |              |              |              |              |              |              |              |              |              |              |
| ....CRYPTOMONAS            | --           | -            | --           | -            | 13           | 1            | --           | -            | --           | -            | --           | -            |

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

\* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%



## MISSISSIPPI RIVER DELTA

07378510 AMITE RIVER AT 4-H CAMP, NEAR DENHAM SPRINGS, LA--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

| DATE<br>TIME                  | NOV 5,80<br>0945 |              | MAR 11,81<br>1230 |              | MAY 4,81<br>1200 |              | JUN 10,81<br>1015 |              | JUL 6,81<br>1430 |              | AUG 10,81<br>1200 |              |
|-------------------------------|------------------|--------------|-------------------|--------------|------------------|--------------|-------------------|--------------|------------------|--------------|-------------------|--------------|
| ORGANISM                      | CELLS<br>/ML     | PER-<br>CENT | CELLS<br>/ML      | PER-<br>CENT | CELLS<br>/ML     | PER-<br>CENT | CELLS<br>/ML      | PER-<br>CENT | CELLS<br>/ML     | PER-<br>CENT | CELLS<br>/ML      | PER-<br>CENT |
| CYANOPHYTA (BLUE-GREEN ALGAE) |                  |              |                   |              |                  |              |                   |              |                  |              |                   |              |
| ..CYANOPHYCEAE                |                  |              |                   |              |                  |              |                   |              |                  |              |                   |              |
| ...CHROOCOCCALES              |                  |              |                   |              |                  |              |                   |              |                  |              |                   |              |
| ...CHROOCOCCACEAE             |                  |              |                   |              |                  |              |                   |              |                  |              |                   |              |
| ....AGMENELLUM                | --               | -            | --                | -            | --               | -            | 930               | 12           | 220              | 6            | --                | -            |
| ....ANACYSTIS                 | 90               | 15           | 39                | 7            | 450#             | 20           | 2500#             | 31           | --               | -            | --                | -            |
| ...HORMOGONALES               |                  |              |                   |              |                  |              |                   |              |                  |              |                   |              |
| ...OSCILLATORIACEAE           |                  |              |                   |              |                  |              |                   |              |                  |              |                   |              |
| ...OSCILLATORIA               | 440#             | 71           | 230#              | 39           | --               | -            | 470               | 6            | 2100#            | 55           | --                | -            |
| ...SPIRULINA                  | --               | -            | --                | -            | --               | -            | *                 | 0            | --               | -            | --                | -            |
| ...RIVULARIACEAE              |                  |              |                   |              |                  |              |                   |              |                  |              |                   |              |
| ....RAPHIIDIOPSIS             | --               | -            | --                | -            | --               | -            | --                | -            | 490              | 13           | --                | -            |
| EUGLENOPHYTA (EUGLENOIDS)     |                  |              |                   |              |                  |              |                   |              |                  |              |                   |              |
| ..EUGLENOPHYCEAE              |                  |              |                   |              |                  |              |                   |              |                  |              |                   |              |
| ...EUGLENALES                 |                  |              |                   |              |                  |              |                   |              |                  |              |                   |              |
| ...EUGLENACEAE                |                  |              |                   |              |                  |              |                   |              |                  |              |                   |              |
| ....TRACHELOMONAS             | --               | -            | 13                | 2            | --               | -            | 93                | 1            | *                | 0            | 29                | 3            |
| PYRRHOPHYTA (FIRE ALGAE)      |                  |              |                   |              |                  |              |                   |              |                  |              |                   |              |
| ..DINOPHYCEAE                 |                  |              |                   |              |                  |              |                   |              |                  |              |                   |              |
| ...PERIDINIALES               |                  |              |                   |              |                  |              |                   |              |                  |              |                   |              |
| ...GLENODINIACEAE             |                  |              |                   |              |                  |              |                   |              |                  |              |                   |              |
| ....GLENODINIUM               | --               | -            | --                | -            | 13               | 1            | --                | -            | --               | -            | --                | -            |

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

\* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

## MISSISSIPPI RIVER DELTA

141

07380108 BAYOU MANCHAC AT MOUTH, NEAR PORT VINCENT, LA

LOCATION.--Lat 30°20'43", long 90°53'35", in lot 18, T.8 S., R.3 E., Ascension Parish, Hydrologic Unit 08070202, on right bank 100 ft (30 m) upstream from mouth, 2.6 mi (4.2 km) northwest of Port Vincent.

DRAINAGE AREA.--153 mi<sup>2</sup> (396 km<sup>2</sup>).

PERIOD OF RECORD.--Annual maximum elevation, water years 1972-74, October 1974 to current year (elevations only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to October 1974 at datum 1.00 ft (0.305 m) higher.

REMARKS.--No elevations recorded below 1.25 ft (0.381 m). Elevations affected by tide below about 3.0 ft (0.91 m).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 17.38 ft (5.297 m) Apr. 23, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4.28 ft (1.305 m) Feb. 7.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
INSTANTANEOUS OBSERVATIONS AT 0800

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 1.30 | 1.28 | 1.29 | 1.26 | 1.81 | 1.29 | 1.73 | 1.29 | ---  | 1.95 | 1.30 | 1.84 |
| 2    | 1.29 | 1.28 | 1.29 | 1.26 | 1.51 | 1.29 | 1.38 | 1.29 | ---  | 1.91 | 1.30 | 1.64 |
| 3    | 1.29 | 1.28 | 1.30 | 1.26 | 1.27 | 1.29 | 1.79 | 1.30 | ---  | 2.17 | 1.30 | 1.38 |
| 4    | 1.29 | 1.28 | 1.46 | 1.26 | 1.27 | 1.82 | 1.91 | 1.81 | ---  | 2.35 | 1.39 | 1.33 |
| 5    | 1.28 | 1.27 | 1.48 | 1.26 | 1.26 | 1.53 | 1.36 | 2.71 | ---  | 2.12 | 1.36 | 1.34 |
| 6    | 1.28 | 1.27 | 1.60 | 1.25 | 4.13 | 1.30 | 1.29 | 3.85 | ---  | 1.71 | 1.26 | 1.36 |
| 7    | 1.28 | 1.27 | 1.61 | 1.28 | 4.26 | 1.66 | 1.29 | 3.69 | ---  | 1.80 | 1.26 | 1.33 |
| 8    | 1.27 | 1.27 | 1.64 | 1.28 | 3.90 | 2.01 | 1.64 | 2.90 | ---  | 1.95 | 1.26 | 1.30 |
| 9    | 1.27 | 1.27 | 1.61 | 1.28 | 2.40 | 1.35 | 1.83 | 2.34 | ---  | 1.30 | 1.26 | 1.30 |
| 10   | 1.27 | 1.28 | 1.84 | 1.27 | 3.12 | 1.30 | 1.72 | 2.21 | ---  | 1.30 | 1.26 | 1.48 |
| 11   | 1.27 | 1.31 | 2.03 | 1.27 | 4.16 | 1.30 | 1.82 | 1.31 | ---  | 1.81 | 1.26 | 1.55 |
| 12   | 1.27 | 1.56 | 2.38 | 1.27 | 3.91 | 1.29 | 1.80 | 1.30 | ---  | 1.84 | 1.25 | 1.59 |
| 13   | 1.26 | 2.10 | 2.66 | 1.27 | 3.36 | 1.29 | 1.71 | 1.30 | 1.83 | 1.41 | 1.29 | 1.56 |
| 14   | 1.26 | 2.60 | 1.59 | 1.26 | 2.13 | 1.29 | 1.60 | 1.30 | 1.96 | 1.29 | 1.29 | 1.42 |
| 15   | 1.26 | 2.42 | 1.29 | 1.26 | 1.64 | 1.29 | 1.35 | ---  | 1.97 | 1.29 | 1.29 | 1.49 |
| 16   | 1.36 | 2.23 | 1.28 | 1.26 | 1.95 | 1.29 | 1.30 | ---  | 1.80 | 1.29 | 1.29 | 1.29 |
| 17   | 1.52 | 2.57 | 1.28 | 1.26 | 1.99 | 1.29 | 1.71 | ---  | 1.46 | 1.29 | 1.29 | 1.29 |
| 18   | 1.46 | 2.03 | 1.28 | 1.26 | 1.82 | 1.29 | 1.89 | ---  | 1.30 | 1.29 | 1.29 | 1.30 |
| 19   | 2.22 | 1.30 | 1.28 |      | 1.53 | 1.28 | 1.63 | ---  | 1.29 | 1.29 | 1.31 | 1.30 |
| 20   | 1.53 | 1.29 | 1.28 |      | 1.31 | 1.28 | 1.30 | ---  | 1.29 | 1.29 | 1.32 | 1.30 |
| 21   | 1.29 | 1.29 | 1.27 |      | 1.30 | 1.28 | 1.29 | ---  | 1.29 | 1.29 | 1.29 | 1.29 |
| 22   | 1.29 | 1.28 | 1.27 |      | 1.30 | 1.28 | 1.29 | ---  | 1.29 | 1.29 | 1.29 | 1.29 |
| 23   | 1.34 | 2.14 | 1.27 |      | 1.30 | 1.28 | 1.30 | ---  | 1.29 | 1.29 | 1.76 | 1.29 |
| 24   | 1.58 | 1.94 | 1.28 |      | 1.30 | 1.28 | 1.30 | ---  | 1.30 | 1.29 | 1.75 | 1.29 |
| 25   | 1.28 | 1.86 | 1.28 |      | 1.30 | 1.28 | 1.30 | ---  | 1.54 | 1.36 | 1.93 | 1.29 |
| 26   | 1.28 | 2.27 | 1.28 |      | 1.30 | 1.27 | 1.52 | ---  | 1.35 | 1.30 | 1.91 | 1.30 |
| 27   | 1.36 | 2.54 | 1.28 |      | 1.30 | 1.27 | 1.63 | ---  | 1.29 | 1.56 | 2.10 | 1.66 |
| 28   | 1.48 | 2.19 | 1.27 |      | 1.29 | 1.27 | 1.63 | ---  | 1.29 | 1.43 | 2.16 | 1.63 |
| 29   | 1.29 | 1.66 | 1.27 |      | ---  | 1.60 | 1.62 | ---  | 1.38 | 1.29 | 2.25 | 1.37 |
| 30   | 1.63 | 1.30 | 1.27 |      | ---  | 2.03 | 1.30 | ---  | 1.98 | 1.30 | 2.16 | 1.39 |
| 31   | 1.29 | ---  | 1.27 |      | ---  | 1.90 | ---  | ---  | ---  | 1.30 | 2.05 | ---  |
| MEAN | 1.37 | 1.69 | 1.47 | ---  | 2.11 | 1.40 | 1.54 | ---  | ---  | 1.53 | 1.50 | 1.41 |
| MAX  | 2.22 | 2.60 | 2.66 | 1.28 | 4.26 | 2.03 | 1.91 | ---  | ---  | 2.35 | 2.25 | 1.84 |
| MIN  | 1.26 | 1.27 | 1.27 | ---  | 1.26 | 1.27 | 1.29 | ---  | ---  | 1.29 | 1.25 | 1.29 |

NOTE: Elevation was below lowest recordable elevation of 1.25 feet, Jan, 19-31.

## MISSISSIPPI RIVER DELTA

07380228 NEW RIVER AT ACY, LA

LOCATION.--Lat 30°13'07", long 90°49'15", at center El/2 sec. 32, T. 9 S., R. 4 E., Ascension Parish, Hydrologic Unit 08070204, near left bank on downstream side of bridge on State Highway 22, at Acy, and 2.4 mi (3.9 km) upstream from Bayou Francois.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1976 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 3.91 ft (1.192 m) National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development, Office of Public Works).

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

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.99 ft (2.740 m) Apr. 24, 1979; minimum, 2.57 ft (0.783 m) Feb. 24, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 6.98 ft (2.128 m) Feb. 11; minimum, 2.72 ft (0.829 m) Mar. 20.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
INSTANTANEOUS OBSERVATIONS AT 0800

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 4.84 | 4.26 | 4.49 | 4.00 | 5.47 | 4.79 | 5.41 | 4.57 | 4.83 | 5.68 | 4.98 | 5.73 |
| 2    | 5.07 | 4.22 | 4.89 | 4.09 | 5.31 | 4.66 | 5.08 | 4.47 | 5.12 | 5.63 | 5.05 | 5.44 |
| 3    | 5.04 | 4.44 | 4.99 | 4.00 | 4.36 | 4.86 | 5.32 | 5.08 | 5.23 | 5.78 | 5.03 | 5.12 |
| 4    | 4.35 | 4.76 | 5.20 | 3.99 | 4.12 | 5.52 | 5.38 | 5.53 | 5.36 | 5.76 | 5.15 | 5.11 |
| 5    | 4.54 | 4.68 | 5.22 | 4.20 | 4.12 | 5.16 | 4.97 | 6.11 | 5.60 | 5.54 | 5.13 | 5.07 |
| 6    | 4.59 | 4.47 | 5.33 | 4.89 | 6.08 | 4.56 | 4.47 | 6.41 | 5.80 | 5.46 | 4.91 | 5.12 |
| 7    | 4.84 | 4.72 | 5.33 | 4.68 | 6.12 | 4.75 | 4.69 | 6.31 | 5.51 | 5.31 | 4.65 | 5.10 |
| 8    | 4.76 | 4.61 | 5.37 | 4.55 | 5.88 | 5.23 | 5.35 | 6.12 | 5.50 | 5.54 | 4.20 | 4.93 |
| 9    | 4.69 | 4.89 | 5.33 | 4.53 | 5.55 | 4.93 | 5.56 | 6.03 | 4.73 | 4.84 | 4.27 | 4.99 |
| 10   | 4.58 | 4.90 | 5.28 | 4.62 | 6.55 | 4.52 | 5.49 | 5.92 | 4.53 | 5.02 | 4.40 | 5.29 |
| 11   | 4.36 | 5.02 | 4.98 | 4.39 | 6.95 | 4.51 | 5.56 | 5.10 | 5.55 | 5.27 | 4.42 | 5.37 |
| 12   | 4.11 | 5.27 | 4.71 | 4.14 | 6.60 | 4.61 | 5.52 | 4.61 | 6.25 | 5.52 | 4.59 | 5.41 |
| 13   | 4.40 | 5.75 | 4.57 | 3.87 | 6.17 | 4.86 | 5.44 | 4.86 | 6.07 | 5.08 | 4.95 | 5.31 |
| 14   | 4.45 | 6.12 | 4.36 | 3.85 | 5.70 | 4.81 | 5.35 | 4.76 | 5.78 | 4.60 | 5.02 | 5.22 |
| 15   | 4.58 | 6.17 | 4.55 | 4.13 | 5.25 | 4.73 | 5.10 | 4.57 | 5.76 | 4.30 | 5.03 | 5.27 |
| 16   | 5.09 | 6.03 | 4.19 | 4.45 | 5.53 | 4.13 | 4.97 | 4.61 | 5.61 | 4.23 | 4.92 | 4.80 |
| 17   | 5.25 | 6.17 | 3.79 | 4.35 | 5.58 | 4.16 | 5.44 | 5.50 | 5.25 | 4.21 | 4.88 | 4.95 |
| 18   | 5.21 | 5.85 | 4.48 | 4.09 | 5.41 | 4.13 | 5.80 | 5.70 | 5.01 | 4.17 | 4.88 | 4.88 |
| 19   | 5.27 | 4.88 | 4.67 | 3.87 | 5.10 | 3.11 | 5.41 | 5.40 | 4.85 | 4.22 | 5.04 | 4.84 |
| 20   | 5.11 | 4.44 | 4.83 | 4.31 | 4.60 | 2.74 | 4.77 | 4.75 | 4.71 | 4.23 | 5.12 | 4.60 |
| 21   | 4.81 | 4.57 | 4.67 | 3.81 | 4.41 | 3.43 | 4.38 | 4.73 | 4.63 | 3.98 | 4.74 | 4.49 |
| 22   | 4.87 | 4.77 | 4.71 | 3.61 | 4.35 | 4.17 | 4.65 | 4.78 | 4.64 | 4.16 | 4.89 | 4.56 |
| 23   | 5.08 | 5.59 | 4.79 | 3.67 | 3.85 | 3.78 | 5.02 | 5.19 | 4.81 | 4.36 | 5.52 | 4.49 |
| 24   | 5.32 | 5.39 | 4.82 | 3.90 | 3.40 | 3.79 | 4.99 | 5.28 | 5.07 | 4.75 | 5.57 | 4.57 |
| 25   | 4.69 | 5.20 | 4.33 | 4.19 | 4.17 | 3.85 | 5.06 | 5.42 | 5.24 | 5.11 | 5.72 | 4.69 |
| 26   | 4.48 | 5.80 | 4.30 | 4.54 | 4.54 | 4.26 | 5.28 | 5.75 | 5.06 | 5.04 | 5.72 | 5.02 |
| 27   | 5.10 | 5.79 | 4.34 | 4.62 | 4.65 | 4.38 | 5.38 | 5.07 | 4.86 | 5.37 | 5.82 | 5.43 |
| 28   | 5.26 | 4.88 | 4.50 | 4.91 | 4.72 | 4.78 | 5.38 | 5.08 | 4.86 | 5.24 | 5.88 | 5.42 |
| 29   | 5.01 | 4.10 | 3.97 | 4.96 | ---  | 5.34 | 5.37 | 4.84 | 5.09 | 4.98 | 5.95 | 5.16 |
| 30   | 4.82 | 3.91 | 3.72 | 5.00 | ---  | 5.67 | 4.80 | 4.60 | 5.69 | 5.04 | 5.91 | 5.18 |
| 31   | 4.46 | ---  | 3.82 | 4.75 | ---  | 5.60 | ---  | 4.57 | ---  | 5.03 | 6.20 | ---  |
| MEAN | 4.81 | 5.06 | 4.66 | 4.29 | 5.16 | 4.51 | 5.18 | 5.22 | 5.23 | 4.95 | 5.11 | 5.05 |
| MAX  | 5.32 | 6.17 | 5.37 | 5.00 | 6.95 | 5.67 | 5.80 | 6.41 | 6.25 | 5.78 | 6.20 | 5.73 |
| MIN  | 4.11 | 3.91 | 3.72 | 3.61 | 3.40 | 2.74 | 4.38 | 4.47 | 4.53 | 3.98 | 4.20 | 4.49 |

## MISSISSIPPI RIVER DELTA

143

301500090300000 LAKE MAUREPAS NFAR MANCHAC, LA (CE 85415)  
 (Formerly published as 301500090300000 Middle of Lake Maurepas near Manchac, LA (CE 85415))

LOCATION.--Lat 30°15'00", long 90°30'00", T.9 S., R.7 E., St. John the Baptist Parish, Hydrologic Unit 08070204,  
 8.7 mi (14.0 km) southwest of Manchac.

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-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>FIELD<br>(UNITS) | COLOR<br>(PLAT-<br>INUM<br>CORALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | SETTLE-<br>ABLE<br>MATTER<br>(ML/L/<br>HR) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(HIGH<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIOCHEM<br>UNINHIB<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>TOTAL,<br>IMMED.<br>(COLS.<br>PER<br>100 ML) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-HF<br>(COLS./<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) |
|--------------|------|------------------------------------------------------------|------------------------|---------------------------------------------|------------------------------|--------------------------------------------|-------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------|
| OCT<br>27... | 0940 | 2240                                                       | 7.5                    | 10                                          | 3.0                          | <1.0                                       | 9.6                                 | 21                                                              | 1.0                                                        | K20                                                            | <5                                                             | 240                                    |
| NOV<br>19... | 0950 | 3200                                                       | 7.5                    | 5                                           | 15                           | <1.0                                       | 9.8                                 | 29                                                              | .6                                                         | <5                                                             | <5                                                             | 340                                    |
| DEC<br>09... | 1004 | 1970                                                       | 7.2                    | 5                                           | 10                           | <1.0                                       | 10.8                                | 40                                                              | 1.3                                                        | <4                                                             | K4                                                             | 210                                    |
| JAN<br>19... | 0930 | 2520                                                       | 7.2                    | 20                                          | 15                           | <1.0                                       | 11.2                                | 40                                                              | .6                                                         | <4                                                             | <2                                                             | 260                                    |

| DATE         | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) | NITRO-<br>GEN,<br>NITRATE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) |
|--------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|------------------------------------------|-----------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| OCT<br>27... | 200                                                    | 24                                           | 44                                                   | 380                                          | 16                                                  | 39                                       | 93                                            | 650                                                 | 2                                                                   | .06                                                  | .00                                                  | .06                                                  |
| NOV<br>19... | 300                                                    | 31                                           | 63                                                   | 510                                          | 24                                                  | 36                                       | 140                                           | 950                                                 | 12                                                                  | .00                                                  | .00                                                  | .00                                                  |
| DEC<br>09... | 170                                                    | 22                                           | 37                                                   | 280                                          | 16                                                  | 34                                       | 78                                            | 530                                                 | 4                                                                   | .03                                                  | .01                                                  | .04                                                  |
| JAN<br>19... | 230                                                    | 25                                           | 48                                                   | 400                                          | 15                                                  | 31                                       | 110                                           | 720                                                 | 15                                                                  | .07                                                  | .02                                                  | .09                                                  |

| DATE         | NITRO-<br>GEN+AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BERYL-<br>LIUM,<br>TOTAL<br>(UG/L<br>AS BE) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>TOTAL<br>(UG/L<br>AS CD) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>HEXA-<br>VALENT,<br>DIS.<br>(UG/L<br>AS CR) | COPPER,<br>TOTAL<br>(UG/L<br>AS CU) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) |
|--------------|-------------------------------------------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------------|---------------------------------------------|------------------------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------------------------------------|-------------------------------------|----------------------------------------------|
| OCT<br>27... | .83                                                               | .06                                         | 1                                   | 1                                            | 0                                           | 0                                                    | 0                                   | 0                                            | 10                                         | 0                                                             | 4                                   | 4                                            |
| NOV<br>19... | .60                                                               | .02                                         | 1                                   | 0                                            | --                                          | 10                                                   | 1                                   | 0                                            | 0                                          | 0                                                             | 2                                   | 2                                            |
| DEC<br>09... | .74                                                               | .06                                         | 1                                   | 0                                            | 0                                           | <1                                                   | 0                                   | 2                                            | 0                                          | 0                                                             | 4                                   | 0                                            |
| JAN<br>19... | 1.1                                                               | .02                                         | 1                                   | 0                                            | 0                                           | 0                                                    | 0                                   | 0                                            | 10                                         | 0                                                             | 7                                   | 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 DELTA

301500090300000 LAKE MAUREPAS NEAR MANCHAC, LA (CE 85415)--Continued

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

| DATE         | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FF) | LEAD,<br>TOTAL<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MERCURY<br>TOTAL<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | ZINC,<br>TOTAL<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|--------------------------------------------|-----------------------------------|--------------------------------------------|-------------------------------------|----------------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------------------|-----------------------------------|--------------------------------------------|-----------------------------------------------|
| OCT<br>27... | 10                                         | 1                                 | 0                                          | .0                                  | .0                                           | 6                                   | 3                                            | 0                                          | 0                                                   | --                                | 20                                         | 6.9                                           |
| NOV<br>19... | 20                                         | 4                                 | 0                                          | .0                                  | .0                                           | 3                                   | 3                                            | 0                                          | 0                                                   | 10                                | 10                                         | 6.1                                           |
| DEC<br>09... | 20                                         | 2                                 | 0                                          | .0                                  | .2                                           | 2                                   | 0                                            | 0                                          | 0                                                   | 20                                | 10                                         | 7.7                                           |
| JAN<br>19... | 30                                         | 9                                 | 0                                          | .0                                  | .0                                           | 4                                   | 1                                            | 0                                          | 0                                                   | 10                                | 10                                         | 8.5                                           |

| DATE         | CYANIDE<br>TOTAL<br>(MG/L<br>AS CN) | PHENOLS<br>(UG/L) | OIL AND<br>GREASE,<br>TOTAL<br>RECOV.<br>GRAVI-<br>METRIC<br>(MG/L) | PCR<br>TOTAL<br>(UG/L) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR,<br>TOTAL<br>(UG/L) | ALDRIN,<br>TOTAL<br>(UG/L) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L) | DDD,<br>TOTAL<br>(UG/L) | DDE,<br>TOTAL<br>(UG/L) | DDT,<br>TOTAL<br>(UG/L) | DI-<br>AZINON,<br>TOTAL<br>(UG/L) |
|--------------|-------------------------------------|-------------------|---------------------------------------------------------------------|------------------------|---------------------------------------------------------------|----------------------------|------------------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|
| OCT<br>27... | .00                                 | 1                 | 0                                                                   | .0                     | .0                                                            | .000                       | .0                                 | .000                    | .000                    | .000                    | .01                               |
| NOV<br>19... | .00                                 | 1                 | 0                                                                   | .0                     | .0                                                            | .000                       | .0                                 | .000                    | .000                    | .000                    | .01                               |
| DEC<br>09... | .00                                 | 6                 | 0                                                                   | <.1                    | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .01                               |
| JAN<br>19... | .00                                 | 0                 | 0                                                                   | <.1                    | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .01                               |

| DATE         | DI-<br>ELDRIN<br>TOTAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) | ENDRIN,<br>TOTAL<br>(UG/L) | ETHION,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L) | LINDANE<br>TOTAL<br>(UG/L) | MALA-<br>THION,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L) | METHYL<br>THI-<br>THION,<br>TOTAL<br>(UG/L) |
|--------------|----------------------------------|-------------------------------------|----------------------------|----------------------------|-------------------------------------|-----------------------------------------------|----------------------------|------------------------------------|--------------------------------------------|----------------------------------------------|---------------------------------------------|
| OCT<br>27... | .000                             | .000                                | .000                       | .00                        | .000                                | .000                                          | .000                       | .00                                | .00                                        | .00                                          | .00                                         |
| NOV<br>19... | .000                             | .000                                | .000                       | .00                        | .000                                | .000                                          | .000                       | .00                                | .00                                        | .00                                          | .00                                         |
| DEC<br>09... | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        |
| JAN<br>19... | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        |

| DATE         | MIRFX,<br>TOTAL<br>(UG/L) | PARA-<br>THION,<br>TOTAL<br>(UG/L) | PER-<br>THANE,<br>TOTAL<br>(UG/L) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOTAL<br>TRI-<br>THION<br>(UG/L) | 2,4-D,<br>TOTAL<br>(UG/L) | 2, 4-DP<br>TOTAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) | CHLOR-A<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) | CHLOR-B<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) |
|--------------|---------------------------|------------------------------------|-----------------------------------|------------------------------------|----------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| OCT<br>27... | .00                       | .00                                | .00                               | .0                                 | .00                              | .03                       | .00                        | .00                        | .00                        | 3.33                                                              | .630                                                              |
| NOV<br>19... | .00                       | .00                                | .00                               | .0                                 | .00                              | .02                       | .00                        | .00                        | .00                        | 3.57                                                              | .000                                                              |
| DEC<br>09... | <.01                      | <.01                               | <.01                              | <.1                                | <.01                             | .03                       | .00                        | .00                        | .00                        | 9.50                                                              | .000                                                              |
| JAN<br>19... | <.01                      | <.01                               | <.01                              | <.1                                | <.01                             | .03                       | .00                        | .00                        | .00                        | 6.80                                                              | .500                                                              |

&lt; Actual value is known to be less than the value shown.

## 07380230 PASS MANCHAC AT MANCHAC, LA (CE 85420)

LOCATION.--Lat 30°16'53", long 90°24'01", T.9 S., R.8 E., St. John the Baptist-Tangipahoa Parish line, Hydrologic Unit 08090202, at bridge on U.S. Highway 51, 10 mi (16.1 km) south of Ponchatoula, 0.4 mi (0.64 km) north of Galva, and 0.2 mi (0.32 km) south of Manchac.

DRAINAGE AREA.--3,204 mi<sup>2</sup> (8,298 km<sup>2</sup>).

PERIOD OF RECORD.--Water years 1957, 1963, 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 since October 1974 and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 30.0°C Aug. 13, 1977, July 19, 1978, Aug. 15, 1981; minimum daily, 4.0°C Feb. 9, 10, 1978, Jan. 15, 1979, Jan. 1, 1981.

CHLORIDE: Maximum daily, 8,400 mg/L Apr. 19, 1977; minimum daily, 10 mg/L June 7, 1980.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 30.0°C Aug. 15; minimum daily, 4.0°C Jan. 1.

CHLORIDE: Maximum daily, 2,100 mg/L Sept. 22; minimum daily, 11 mg/L Feb. 24.

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

| DAY | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 1   | 21.0 | 14.0 | 14.5 | 4.0  | 8.5  | 14.0 | 18.0 | 24.0 | 23.5 | 25.5 | 28.0 | 25.5 |
| 2   | 21.0 | ---  | 14.5 | 4.5  | 9.5  | 15.0 | 18.5 | 23.5 | 23.5 | 25.0 | 28.5 | 26.0 |
| 3   | 20.0 | ---  | 13.5 | 6.0  | 9.5  | 15.0 | 18.5 | 23.5 | 24.0 | 25.0 | 29.0 | 26.5 |
| 4   | 20.0 | 13.0 | 13.0 | 6.5  | 9.5  | 14.5 | 18.0 | 22.0 | 24.5 | 25.5 | 28.5 | 26.5 |
| 5   | 19.0 | 14.0 | 13.0 | 8.0  | 9.0  | 15.0 | 18.5 | 22.0 | 24.5 | 26.0 | 29.0 | 27.0 |
| 6   | 17.0 | 13.0 | 11.5 | 7.0  | 9.5  | 15.0 | 19.0 | 23.0 | 24.5 | 27.0 | 28.5 | 26.5 |
| 7   | 17.0 | 13.0 | 11.5 | 7.0  | 10.0 | 15.0 | 19.0 | 24.0 | 24.0 | 26.5 | 28.5 | 26.0 |
| 8   | 17.0 | 14.0 | 12.0 | 8.0  | 11.0 | 15.0 | 19.5 | 24.0 | 25.0 | 26.5 | 28.0 | 26.0 |
| 9   | 17.0 | 15.0 | 11.5 | 9.0  | 10.5 | 15.5 | 19.0 | 24.5 | 25.5 | 26.5 | 28.5 | 26.5 |
| 10  | 17.0 | 14.0 | 12.0 | 9.0  | 10.5 | 15.5 | 19.5 | 23.0 | 25.5 | 27.0 | 28.5 | 25.5 |
| 11  | 17.0 | 14.0 | 11.5 | 9.5  | 11.0 | 15.5 | 19.5 | 22.0 | 24.5 | 28.0 | 28.0 | 26.0 |
| 12  | 16.0 | 14.5 | 11.5 | 9.5  | 11.5 | 15.5 | 20.0 | 22.0 | 23.5 | 28.5 | 29.0 | 25.5 |
| 13  | 16.0 | 14.0 | 12.0 | 10.0 | 11.5 | 15.5 | 19.5 | 22.0 | 24.0 | 28.5 | 29.5 | 25.0 |
| 14  | 16.0 | 14.5 | 11.5 | 10.5 | 11.0 | 16.0 | 19.5 | 23.0 | 24.5 | 28.5 | 29.5 | 24.5 |
| 15  | 16.0 | 15.0 | 11.5 | 10.5 | 10.0 | 15.5 | 20.0 | 23.0 | 25.0 | 29.0 | 30.0 | 24.0 |
| 16  | 16.0 | 14.5 | 10.5 | 10.5 | 11.0 | 15.0 | 20.0 | 23.5 | 25.0 | 28.5 | 29.5 | 24.0 |
| 17  | ---  | 14.5 | 10.0 | 10.0 | 11.5 | 15.0 | 20.0 | 23.0 | 24.5 | 28.0 | 29.0 | 23.0 |
| 18  | ---  | 14.0 | 10.0 | 9.0  | 13.0 | 14.5 | 20.5 | 22.0 | 25.0 | 28.0 | 28.0 | 22.0 |
| 19  | 16.0 | 14.5 | 10.0 | 9.5  | 13.0 | 15.0 | 21.0 | 21.5 | 24.5 | 28.0 | 27.0 | 21.0 |
| 20  | 16.0 | 15.0 | 10.0 | 9.0  | 12.0 | 15.5 | 21.5 | 21.0 | 23.5 | 26.5 | ---  | 21.0 |
| 21  | 16.0 | 15.0 | 10.0 | 7.0  | 11.0 | 15.5 | 22.0 | 21.0 | 23.5 | 27.0 | ---  | 20.5 |
| 22  | 16.0 | 14.5 | 9.5  | 8.0  | 11.5 | 16.0 | 22.0 | 21.5 | 23.0 | 26.5 | ---  | 19.5 |
| 23  | 16.0 | 15.0 | 9.0  | 8.5  | 11.0 | 15.0 | 23.0 | 23.0 | 24.0 | 26.5 | 26.5 | 19.5 |
| 24  | 16.0 | 14.5 | 9.0  | 8.5  | 11.5 | 15.5 | 23.5 | 24.0 | 23.5 | 27.0 | 26.5 | 20.5 |
| 25  | 15.0 | 15.0 | 9.0  | 7.0  | 11.5 | 16.0 | 23.5 | 24.0 | 23.5 | 27.0 | 28.0 | 21.0 |
| 26  | 16.0 | 15.5 | 9.0  | 6.5  | 11.0 | 16.5 | 23.5 | 23.5 | 23.5 | 28.0 | 28.0 | 21.5 |
| 27  | 16.0 | 15.5 | 8.5  | 7.0  | 11.5 | 16.5 | 23.0 | 24.0 | 23.5 | 28.5 | 28.5 | ---  |
| 28  | 16.0 | 15.0 | 7.0  | 8.0  | 12.0 | 17.0 | 25.5 | 24.5 | 25.5 | 28.5 | 29.0 | ---  |
| 29  | 16.0 | 15.0 | 5.5  | 8.5  | ---  | 18.5 | 23.5 | 24.5 | 24.5 | 29.0 | 28.5 | ---  |
| 30  | 15.0 | 15.5 | 5.0  | 8.0  | ---  | 18.5 | ---  | 24.0 | 24.0 | 29.0 | 28.5 | ---  |
| 31  | 15.0 | ---  | 5.5  | 8.5  | ---  | 18.5 | ---  | 24.0 | ---  | 29.0 | 26.5 | ---  |
| MAX | 21.0 | 15.5 | 14.5 | 10.5 | 13.0 | 18.5 | 25.5 | 24.5 | 25.5 | 29.0 | 30.0 | 27.0 |
| MIN | 15.0 | 13.0 | 5.0  | 4.0  | 8.5  | 14.0 | 18.0 | 21.0 | 23.0 | 25.0 | 26.5 | 19.5 |



## MISSISSIPPI RIVER DELTA

07380230 PASS MANCHAC AT MANCHAC, LA (CE 85420)--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   | 600  | 1800 | 400  | 690 | 15  | 500  | 1100 | 860  | 1100 | 740  | 1100 | 1300 |
| 2   | 600  | 1700 | 1000 | 310 | 22  | 570  | 1100 | 1900 | 1000 | 750  | 1000 | 1200 |
| 3   | 600  | 1800 | 1500 | 750 | 19  | 510  | 1100 | 1000 | 500  | 780  | 1100 | 1200 |
| 4   | 600  | 1700 | 1400 | 740 | 12  | 510  | 1200 | 1100 | 610  | 530  | 1000 | 1300 |
| 5   | 600  | 1800 | 1500 | 510 | 93  | 530  | 1100 | 920  | 1100 | 740  | 1100 | ---  |
| 6   | 600  | 1700 | 1400 | 720 | 97  | 580  | 1100 | 1100 | 940  | 750  | 1100 | 1200 |
| 7   | 600  | 1700 | 1400 | 660 | 92  | 450  | 1100 | 1800 | 950  | 780  | 1000 | 1000 |
| 8   | 500  | 300  | 1400 | 660 | 30  | 430  | 1100 | 220  | 970  | 790  | 1000 | 1100 |
| 9   | 600  | 1000 | 1400 | 630 | 92  | 490  | 1100 | 120  | 900  | 740  | 1000 | 1100 |
| 10  | 600  | 900  | 1500 | 610 | 110 | 470  | 800  | 1300 | 900  | 740  | 1100 | 1000 |
| 11  | 600  | 1000 | 1400 | 630 | 40  | 830  | 800  | 1200 | 860  | 760  | 1100 | 1100 |
| 12  | 600  | 900  | 900  | 770 | 120 | 820  | 840  | 1300 | 800  | 750  | 100  | 1100 |
| 13  | 600  | 900  | 300  | 560 | 21  | 800  | 800  | 1300 | 360  | 1900 | 120  | 1100 |
| 14  | 100  | 1000 | 630  | 590 | 18  | 910  | 800  | 1300 | 1500 | 240  | 910  | 980  |
| 15  | ---  | 1000 | 810  | 630 | 20  | 1200 | 820  | 1300 | 480  | 220  | 950  | 1100 |
| 16  | ---  | 1000 | 840  | 650 | 14  | 870  | 800  | 1300 | 1000 | 1800 | 940  | 1100 |
| 17  | ---  | 900  | 690  | 410 | 17  | 700  | 800  | 1300 | 1500 | 1900 | 960  | 1300 |
| 18  | ---  | 1200 | 810  | 630 | 16  | 1200 | 780  | 1300 | 1000 | 1800 | 960  | 1100 |
| 19  | 1100 | 1000 | 980  | 680 | 93  | 1100 | 810  | 1300 | 1100 | 2000 | 980  | 660  |
| 20  | 1100 | 1200 | 810  | 620 | 13  | 1100 | 800  | 1400 | 1000 | 2000 | ---  | 1100 |
| 21  | 1200 | 1100 | 1400 | 770 | 21  | 1200 | 1900 | 1500 | 1000 | 2000 | ---  | 1100 |
| 22  | 1100 | 1200 | 850  | 590 | 22  | 1200 | 1800 | 1500 | 1000 | 2000 | ---  | 2100 |
| 23  | 1200 | 1100 | 430  | 620 | 16  | 1200 | 1800 | 1400 | 1000 | 2000 | 940  | 1100 |
| 24  | 900  | 1100 | 800  | 630 | 11  | 1700 | 1800 | 1600 | 1100 | 1900 | 910  | 1100 |
| 25  | 1100 | 1100 | 860  | 41  | 19  | 1800 | 1800 | 1600 | 910  | 1100 | 930  | 1100 |
| 26  | 1100 | 1200 | 730  | 41  | 110 | 1700 | 1800 | 1500 | 1000 | 2000 | 1200 | 1000 |
| 27  | 1700 | 1100 | 900  | 72  | 390 | 1600 | 1800 | 1500 | 940  | 2000 | 1200 | ---  |
| 28  | 1600 | 1100 | 750  | 100 | 770 | 1500 | 1900 | 500  | 920  | 1000 | 1100 | ---  |
| 29  | 1800 | 500  | 750  | 28  | --- | 1100 | ---  | 200  | 420  | 1100 | 1400 | ---  |
| 30  | 1700 | 400  | 390  | 25  | --- | 1100 | ---  | 56   | 110  | 1100 | 1300 | ---  |
| 31  | 1800 | ---  | 670  | 15  | --- | 1100 | ---  | 110  | ---  | 1100 | 1400 | ---  |
| MAX | 1800 | 1800 | 1500 | 770 | 770 | 1800 | 1900 | 1900 | 1500 | 2000 | 1400 | 2100 |
| MIN | 100  | 300  | 300  | 15  | 11  | 430  | 780  | 56   | 110  | 220  | 100  | 660  |

301730090180000 LAKE PONTCHARTRAIN AT PASS MANCHAC, NEAR MANCHAC, LA (CE 85403)

LOCATION.--Lat 30°17'30", long 90°18'00", T.9 S., R.9 E., St. John the Baptist Parish, Hydrologic Unit 08090202, 6.1 mi (9.8 km) east of Manchac.

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.

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

| DATE      | TIME | SPECIFIC CONDUCTANCE (UMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLAT-INUM-COBALT UNITS) | TURBIDITY (NTU) | SETTLABLE MATTER (ML/L/HR) | OXYGEN, DIS-SOLVED (MG/L) | OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) | OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L) | COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) | COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) |
|-----------|------|------------------------------|------------|---------------------|--------------------------------|-----------------|----------------------------|---------------------------|---------------------------------------------|-------------------------------------------|--------------------------------------------|-------------------------------------------|
| OCT 27... | 0950 | 3210                         | 7.1        | --                  | 0                              | 10              | <1.0                       | 9.0                       | 25                                          | .8                                        | K240                                       | 100                                       |
| NOV 19... | 1000 | 4120                         | 7.4        | --                  | 10                             | 8.0             | <1.0                       | 9.2                       | 33                                          | 2.7                                       | K30                                        | K25                                       |
| DEC 09... | 1014 | 4790                         | 7.1        | --                  | 0                              | 4.0             | <1.0                       | 10.2                      | 110                                         | 1.4                                       | --                                         | K14                                       |
| JAN 19... | 0940 | 4040                         | 7.1        | --                  | 10                             | 6.0             | <1.0                       | 11.2                      | 31                                          | .3                                        | K4                                         | <2                                        |
| JUN 18... | 1430 | 3000                         | 7.2        | 30.5                | 10                             | 3.0             | <1.0                       | 6.3                       | 41                                          | .8                                        | K24                                        | --                                        |
| AUG 12... | 1700 | 5460                         | 7.1        | 32.0                | 5                              | 1.0             | <1.0                       | 8.2                       | 130                                         | 1.6                                       | 120                                        | <2                                        |

| DATE      | HARDNESS (MG/L AS CaCO3) | HARDNESS, NONCARBONATE (MG/L AS CaCO3) | CALCIUM DIS-SOLVED (MG/L AS Ca) | MAGNESIUM, DIS-SOLVED (MG/L AS Mg) | SODIUM, DIS-SOLVED (MG/L AS Na) | POTASSIUM, DIS-SOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CaCO3) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLORIDE, DIS-SOLVED (MG/L AS Cl) | SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) | NITROGEN, NITRATE TOTAL (MG/L AS N) | NITROGEN, NITRITE TOTAL (MG/L AS N) |
|-----------|--------------------------|----------------------------------------|---------------------------------|------------------------------------|---------------------------------|-----------------------------------|----------------------------------|----------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------|-------------------------------------|
| OCT 27... | 320                      | 300                                    | 26                              | 62                                 | 500                             | 20                                | 25                               | 130                              | 900                               | 22                                              | .14                                 | .00                                 |
| NOV 19... | 450                      | 410                                    | 38                              | 87                                 | 690                             | 24                                | 38                               | 130                              | 1300                              | 0                                               | .00                                 | .00                                 |
| DEC 09... | 500                      | 460                                    | 40                              | 97                                 | 780                             | 40                                | 31                               | 210                              | 1400                              | 5                                               | .00                                 | .00                                 |
| JAN 19... | 420                      | 390                                    | 36                              | 81                                 | 700                             | 25                                | 35                               | 180                              | 1200                              | 4                                               | .05                                 | .01                                 |
| JUN 18... | 310                      | 290                                    | 30                              | 58                                 | 450                             | 20                                | 25                               | 120                              | 870                               | 18                                              | .02                                 | .01                                 |
| AUG 12... | 610                      | 590                                    | 48                              | 120                                | 950                             | 34                                | 26                               | 270                              | 1800                              | 15                                              | .00                                 | .01                                 |

| DATE      | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC TOTAL (UG/L AS AS) | ARSENIC DIS-SOLVED (UG/L AS AS) | BERYLLIUM, TOTAL RECOVERABLE (UG/L AS RE) | BERYLLIUM, DIS-SOLVED (UG/L AS RE) | CADMIUM TOTAL RECOVERABLE (UG/L AS CD) | CADMIUM DIS-SOLVED (UG/L AS CD) | CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) | CHROMIUM, HEXAVALENT DIS. (UG/L AS CR) | COPPER, TOTAL RECOVERABLE (UG/L AS CU) |
|-----------|-------------------------------------|----------------------------------------------|-------------------------------|----------------------------|---------------------------------|-------------------------------------------|------------------------------------|----------------------------------------|---------------------------------|------------------------------------------|----------------------------------------|----------------------------------------|
| OCT 27... | .14                                 | .72                                          | .08                           | 1                          | 0                               | 0                                         | 0                                  | 0                                      | 0                               | 10                                       | 0                                      | 4                                      |
| NOV 19... | .00                                 | .76                                          | .04                           | 1                          | 0                               | --                                        | 10                                 | 0                                      | 0                               | 10                                       | 0                                      | 3                                      |
| DEC 09... | .00                                 | .53                                          | .05                           | 0                          | 0                               | 0                                         | 0                                  | 0                                      | 0                               | 0                                        | 0                                      | 4                                      |
| JAN 19... | .06                                 | .87                                          | .01                           | 0                          | 0                               | 0                                         | 0                                  | 0                                      | 0                               | 10                                       | 0                                      | 7                                      |
| JUN 18... | .03                                 | .89                                          | .03                           | 1                          | 0                               | 0                                         | 0                                  | 1                                      | 0                               | 0                                        | 0                                      | 4                                      |
| AUG 12... | .01                                 | .81                                          | .03                           | 1                          | 1                               | 0                                         | 0                                  | 1                                      | 1                               | 10                                       | 0                                      | 8                                      |

&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).

## MISSISSIPPI RIVER DELTA

301730090180000 LAKE PONTCHARTRAIN AT PASS MANCHAC, NEAR MANCHAC, LA (CE 85403)--Continued

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

| DATE      | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|-----------|----------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| OCT 27... | 2                                            | 10                                         | 3                                                     | 3                                          | .0                                                      | .0                                           | 7                                                       | 3                                            | 0                                          | 0                                                   | 10                                                    | 10                                         |
| NOV 19... | 3                                            | 30                                         | 2                                                     | 2                                          | .0                                                      | .0                                           | 4                                                       | 4                                            | 0                                          | 0                                                   | --                                                    | 20                                         |
| DEC 09... | 0                                            | 40                                         | 1                                                     | 0                                          | .0                                                      | .0                                           | 2                                                       | 1                                            | 0                                          | 0                                                   | 20                                                    | 10                                         |
| JAN 19... | 3                                            | 20                                         | 8                                                     | 2                                          | .0                                                      | .0                                           | 4                                                       | 2                                            | 0                                          | 0                                                   | 20                                                    | 20                                         |
| JUN 18... | 4                                            | 30                                         | 17                                                    | 4                                          | .1                                                      | .1                                           | 3                                                       | 2                                            | 0                                          | 0                                                   | 30                                                    | 30                                         |
| AUG 12... | 6                                            | 50                                         | 7                                                     | 0                                          | .1                                                      | .0                                           | 1                                                       | 0                                            | <1                                         | 0                                                   | 30                                                    | 10                                         |

| DATE      | CARRON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CYANIDE<br>TOTAL<br>(MG/L<br>AS CM) | PHENOLS<br>(UG/L) | OIL AND<br>GREASE,<br>TOTAL<br>RECOV-<br>GRAVI-<br>METRIC<br>(MG/L) | PCB,<br>TOTAL<br>(UG/L) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR,<br>TOTAL<br>(UG/L) | ALDRIN,<br>TOTAL<br>(UG/L) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L) | DDD,<br>TOTAL<br>(UG/L) | DDE,<br>TOTAL<br>(UG/L) | DDT,<br>TOTAL<br>(UG/L) | DI-<br>AZINON,<br>TOTAL<br>(UG/L) |
|-----------|-----------------------------------------------|-------------------------------------|-------------------|---------------------------------------------------------------------|-------------------------|---------------------------------------------------------------|----------------------------|------------------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|
| OCT 27... | 6.5                                           | .00                                 | 2                 | 0                                                                   | .0                      | .0                                                            | .000                       | .0                                 | .000                    | .000                    | .000                    | .01                               |
| NOV 19... | 5.7                                           | .00                                 | 0                 | 0                                                                   | .0                      | .0                                                            | .000                       | .0                                 | .000                    | .000                    | .000                    | .01                               |
| DEC 09... | 6.3                                           | .00                                 | 3                 | 0                                                                   | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .01                               |
| JAN 19... | 7.1                                           | .00                                 | 0                 | 0                                                                   | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .01                               |
| JUN 18... | 5.2                                           | .00                                 | 0                 | 0                                                                   | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .03                               |
| AUG 12... | 6.5                                           | .00                                 | 2                 | 0                                                                   | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | <.01                              |

| DATE      | DI-<br>FLORIN<br>TOTAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) | ENDRIN,<br>TOTAL<br>(UG/L) | ETHION,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L) | LINDANE<br>TOTAL<br>(UG/L) | MALA-<br>THION,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L) |
|-----------|----------------------------------|-------------------------------------|----------------------------|----------------------------|-------------------------------------|-----------------------------------------------|----------------------------|------------------------------------|--------------------------------------------|----------------------------------------------|---------------------------------------------|
| OCT 27... | .000                             | .000                                | .000                       | .00                        | .000                                | .000                                          | .000                       | .00                                | .00                                        | .00                                          | .00                                         |
| NOV 19... | .000                             | .000                                | .000                       | .00                        | .000                                | .000                                          | .000                       | .00                                | .00                                        | .00                                          | .00                                         |
| DEC 09... | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        |
| JAN 19... | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        |
| JUN 18... | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        |
| AUG 12... | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        |

| DATE      | MIREX,<br>TOTAL<br>(UG/L) | PARA-<br>THION,<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>TOTAL<br>(UG/L) | TOX-<br>APHEN,<br>TOTAL<br>(UG/L) | TOTAL<br>TRI-<br>THION<br>(UG/L) | 2,4-D,<br>TOTAL<br>(UG/L) | 2, 4-DP<br>TOTAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) | CHLOR-A<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) | CHLOR-B<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) |
|-----------|---------------------------|------------------------------------|----------------------------------|-----------------------------------|----------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| OCT 27... | .00                       | .00                                | .00                              | .0                                | .00                              | .01                       | .00                        | .00                        | .00                        | 3.93                                                              | .000                                                              |
| NOV 19... | .00                       | .00                                | .00                              | .0                                | .00                              | .02                       | .00                        | .00                        | .00                        | .020                                                              | .000                                                              |
| DEC 09... | <.01                      | <.01                               | <.01                             | <.1                               | <.01                             | .02                       | .00                        | .00                        | .00                        | 7.05                                                              | .000                                                              |
| JAN 19... | <.01                      | <.01                               | <.01                             | <.1                               | <.01                             | .03                       | .00                        | .00                        | .00                        | 3.47                                                              | .000                                                              |
| JUN 18... | <.01                      | <.01                               | <.01                             | <.1                               | <.01                             | .04                       | <.01                       | <.01                       | <.01                       | 6.10                                                              | .000                                                              |
| AUG 12... | <.01                      | <.01                               | <.01                             | <.1                               | <.01                             | .03                       | <.01                       | <.01                       | <.01                       | 1.62                                                              | .000                                                              |

&lt; Actual value is known to be less than the value shown.

LOCATION.--Lat 30°06'00", long 90°58'40", in lot 96, T. 11 S., R. 14 E., Louisiana meridian, Ascension Parish, Hydrologic Unit 08090301, on left bank 40 ft (12 m) upstream from culvert under State Highway 18, in Donaldsonville, and 1,500 ft (457 m) downstream from pumping plant.

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

REMARKS.--Records fair. Pumping plant at Donaldsonville pumps total flow of Bayou Lafourche from Mississippi River except for small amounts of storm drainage during heavy runoff. Records of dissolved oxygen and water temperatures for the water year 1981 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--24 years, 189 ft<sup>3</sup>/s (5.352 m<sup>3</sup>/s), 178,500 acre-ft/yr (220 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 642 ft<sup>3</sup>/s (18.2 m<sup>3</sup>/s) Apr. 13, 1980; no flow June 11, 14, 1959, Feb. 23, 24-27, 28, 1970, Mar. 3, Apr. 2, 3, May 14, 1971, Sept. 7-12, 1973, July 11, 1979.

| DAY         | OCT   | NOV   | DEC      | JAN     | FEB     | MAR          | APR   | MAY   | JUN  | JUL  | AUG   | SEP  |
|-------------|-------|-------|----------|---------|---------|--------------|-------|-------|------|------|-------|------|
| 1           | 178   | 190   | 201      | 222     | 188     | 214          | 184   | 227   | 156  | 124  | 158   | 143  |
| 2           | 180   | 185   | 189      | 221     | 189     | 210          | 187   | 228   | 154  | 122  | 157   | 141  |
| 3           | 179   | 182   | 190      | 221     | 193     | 209          | 188   | 229   | 154  | 124  | 158   | 143  |
| 4           | 177   | 182   | 192      | 218     | 195     | 208          | 195   | 230   | 155  | 120  | 158   | 140  |
| 5           | 177   | 185   | 231      | 225     | 200     | 207          | 195   | 225   | 153  | 118  | 162   | 129  |
| 6           | 182   | 184   | 308      | 217     | 215     | 205          | 177   | 231   | 150  | 111  | 165   | 136  |
| 7           | 217   | 178   | 313      | 225     | 207     | 206          | 159   | 229   | 148  | 110  | 165   | 134  |
| 8           | 276   | 141   | 254      | 225     | 207     | 210          | 182   | 229   | 143  | 105  | 165   | 133  |
| 9           | 280   | 183   | 198      | 225     | 209     | 211          | 238   | 229   | 141  | 116  | 165   | 137  |
| 10          | 280   | 183   | 205      | 226     | 265     | 210          | 244   | 229   | 124  | 125  | 165   | 120  |
| 11          | 280   | 184   | 203      | 226     | 201     | 207          | 247   | 229   | 113  | 129  | 164   | 115  |
| 12          | 280   | 185   | 202      | 225     | 187     | 201          | 248   | 228   | 131  | 126  | 162   | 125  |
| 13          | 280   | 219   | 200      | 223     | 190     | 199          | 247   | 228   | 141  | 120  | 167   | 118  |
| 14          | 280   | 309   | 198      | 222     | 194     | 195          | 252   | 229   | 139  | 117  | 160   | 114  |
| 15          | 280   | 289   | 199      | 222     | 197     | 190          | 253   | 230   | 138  | 114  | 156   | 143  |
| 16          | 280   | 291   | 199      | 222     | 199     | 187          | 225   | 255   | 139  | 116  | 142   | 121  |
| 17          | 280   | 211   | 198      | 222     | 201     | 185          | 204   | 268   | 138  | 116  | 144   | 99   |
| 18          | 280   | 183   | 180      | 221     | 220     | 183          | 204   | 237   | 137  | 115  | 139   | 112  |
| 19          | 280   | 186   | 151      | 218     | 276     | 181          | 203   | 229   | 133  | 115  | 143   | 138  |
| 20          | 280   | 191   | 198      | 222     | 277     | 179          | 200   | 230   | 137  | 113  | 150   | 137  |
| 21          | 280   | 226   | 201      | 220     | 279     | 177          | 201   | 206   | 136  | 110  | 147   | 100  |
| 22          | 230   | 259   | 203      | 220     | 281     | 174          | 203   | 185   | 139  | 113  | 142   | 102  |
| 23          | 230   | 231   | 203      | 209     | 282     | 172          | 204   | 183   | 135  | 112  | 144   | 102  |
| 24          | 230   | 224   | 202      | 176     | 284     | 170          | 208   | 181   | 136  | 111  | 151   | 109  |
| 25          | 230   | 197   | 201      | 175     | 260     | 168          | 212   | 179   | 135  | 111  | 139   | 120  |
| 26          | 230   | 206   | 197      | 177     | 216     | 165          | 213   | 178   | 133  | 109  | 170   | 207  |
| 27          | 230   | 200   | 194      | 177     | 214     | 163          | 214   | 183   | 131  | 109  | 211   | 205  |
| 28          | 280   | 198   | 193      | 177     | 213     | 180          | 216   | 187   | 129  | 122  | 205   | 153  |
| 29          | 280   | 197   | 201      | 179     | ---     | 235          | 217   | 168   | 129  | 154  | 230   | 150  |
| 30          | 240   | 197   | 230      | 181     | ---     | 190          | 224   | 157   | 126  | 156  | 220   | 160  |
| 31          | 200   | ---   | 223      | 183     | ---     | 165          | ---   | 156   | ---  | 155  | 176   | ---  |
| TOTAL       | 7586  | 6176  | 6457     | 6522    | 6239    | 5956         | 6344  | 6612  | 4153 | 3718 | 5080  | 3986 |
| MEAN        | 245   | 206   | 208      | 210     | 223     | 192          | 211   | 213   | 138  | 120  | 164   | 133  |
| MAX         | 280   | 309   | 313      | 226     | 284     | 235          | 253   | 268   | 156  | 156  | 230   | 207  |
| MIN         | 177   | 141   | 151      | 175     | 187     | 163          | 159   | 156   | 113  | 105  | 139   | 99   |
| AC-FT       | 15050 | 12250 | 12810    | 12940   | 12380   | 11810        | 12580 | 13110 | 8240 | 7370 | 10080 | 7910 |
| CAL YR 1980 | TOTAL | 78481 | MEAN 214 | MAX 642 | MIN 109 | AC-FT 155700 |       |       |      |      |       |      |
| WTR YR 1981 | TOTAL | 68829 | MEAN 189 | MAX 313 | MIN     |              |       |       |      |      |       |      |

## MISSISSIPPI RIVER DELTA

07380400 BAYOU LAFOURCHE AT DONALDSONVILLE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 7.14 | ---  | 7.25 | 7.43 | 7.15 | 6.88 | 7.17 | 7.36 | 6.85 | 6.94 | 7.34 | 7.25 |
| 2    | 7.17 | ---  | 7.14 | 7.43 | 7.14 | 6.86 | 7.19 | 7.36 | 6.85 | 6.94 | 7.33 | 7.24 |
| 3    | 7.15 | ---  | 7.14 | 7.43 | 7.15 | 6.88 | 7.20 | 7.36 | 6.89 | 6.95 | 7.34 | 7.25 |
| 4    | 7.13 | 7.17 | 7.16 | 7.41 | 7.15 | 6.88 | 7.25 | 7.36 | 6.92 | 6.91 | 7.34 | 7.23 |
| 5    | 7.13 | 7.19 | 7.46 | 7.47 | 7.19 | 6.89 | 7.25 | 7.31 | 6.93 | 6.88 | 7.37 | 7.10 |
| 6    | 7.19 | 7.18 | 7.98 | 7.41 | 7.30 | 6.90 | 7.02 | 7.36 | 6.92 | 6.81 | 7.39 | 7.20 |
| 7    | 7.43 | 7.09 | 8.01 | 7.48 | 7.21 | 6.93 | 6.80 | 7.35 | 6.92 | 6.79 | 7.38 | 7.19 |
| 8    | 7.85 | 6.61 | 7.51 | 7.48 | 7.19 | 6.99 | 7.02 | 7.34 | 6.90 | 6.72 | 7.38 | 7.18 |
| 9    | ---  | 7.15 | 7.20 | 7.48 | 7.18 | 7.04 | 7.55 | 7.33 | 6.91 | 6.86 | 7.38 | 7.21 |
| 10   | ---  | 7.15 | 7.27 | 7.49 | 7.62 | 7.05 | 7.59 | 7.33 | 6.72 | 6.99 | 7.38 | 6.98 |
| 11   | ---  | 7.15 | 7.25 | 7.49 | 7.02 | 7.03 | 7.61 | 7.32 | 6.62 | 7.06 | 7.38 | 6.91 |
| 12   | ---  | 7.16 | 7.24 | 7.49 | 6.83 | 6.99 | 7.61 | 7.30 | 6.88 | 7.01 | 7.37 | 7.05 |
| 13   | ---  | 7.42 | 7.22 | 7.48 | 6.85 | 6.98 | 7.60 | 7.30 | 7.03 | 6.96 | 7.39 | 6.98 |
| 14   | ---  | 8.02 | 7.20 | 7.47 | 6.86 | 6.95 | 7.63 | 7.30 | 7.04 | 6.92 | 7.36 | 6.90 |
| 15   | ---  | 7.91 | 7.21 | 7.48 | 6.87 | 6.91 | 7.64 | 7.31 | 7.05 | 6.88 | 7.33 | 7.25 |
| 16   | ---  | 7.92 | 7.19 | 7.48 | 6.87 | 6.90 | 7.42 | 7.51 | 7.06 | 6.91 | 7.20 | 6.97 |
| 17   | ---  | 7.34 | 7.20 | 7.48 | 6.86 | 6.90 | 7.25 | 7.62 | 7.06 | 6.92 | 7.23 | 6.68 |
| 18   | ---  | 7.11 | 6.98 | 7.48 | 7.04 | 6.90 | 7.25 | 7.34 | 7.05 | 6.91 | 7.17 | 6.87 |
| 19   | ---  | 7.15 | 6.61 | 7.46 | 7.58 | 6.89 | 7.23 | 7.30 | 7.01 | 6.91 | 7.22 | 7.22 |
| 20   | ---  | 7.20 | 7.21 | 7.49 | 7.57 | 6.89 | 7.21 | 7.33 | 7.06 | 6.89 | 7.28 | 7.21 |
| 21   | ---  | 7.47 | 7.24 | 7.48 | 7.57 | 6.89 | 7.21 | 7.10 | 7.06 | 6.85 | 7.25 | 6.72 |
| 22   | ---  | 7.70 | 7.26 | 7.48 | 7.57 | 6.88 | 7.21 | 6.90 | 7.08 | 6.90 | 7.20 | 6.72 |
| 23   | ---  | 7.50 | 7.26 | 7.40 | 7.56 | 6.88 | 7.22 | 6.90 | 7.06 | 6.89 | 7.23 | 6.69 |
| 24   | ---  | 7.44 | 7.26 | 7.13 | 7.56 | 6.87 | 7.25 | 6.91 | 7.06 | 6.88 | 7.30 | 6.76 |
| 25   | ---  | 7.24 | 7.25 | 7.12 | 7.27 | 6.86 | 7.27 | 6.92 | 7.06 | 6.88 | 7.20 | 6.80 |
| 26   | ---  | 7.31 | 7.22 | 7.14 | 6.83 | 6.85 | 7.28 | 6.94 | 7.04 | 6.87 | 7.41 | 7.59 |
| 27   | ---  | 7.26 | 7.20 | 7.15 | 6.84 | 6.85 | 7.27 | 7.03 | 7.01 | ---  | 7.65 | 7.56 |
| 28   | ---  | 7.24 | 7.19 | 7.13 | 6.85 | 7.04 | 7.29 | 7.11 | 7.00 | 7.04 | 7.62 | 7.01 |
| 29   | ---  | 7.23 | 7.25 | 7.12 | ---  | 7.56 | 7.29 | 6.90 | 6.99 | 7.32 | 7.76 | 6.98 |
| 30   | ---  | 7.23 | 7.49 | 7.12 | ---  | 7.16 | 7.34 | 6.79 | 6.97 | 7.33 | 7.70 | 7.06 |
| 31   | ---  | ---  | 7.43 | 7.12 | ---  | 6.93 | ---  | 6.81 | ---  | 7.32 | 7.45 | ---  |
| MEAN | ---  | ---  | 7.28 | 7.38 | 7.17 | 6.95 | 7.30 | 7.21 | 6.97 | ---  | 7.37 | 7.06 |
| MAX  | ---  | 8.02 | 8.01 | 7.49 | 7.62 | 7.56 | 7.64 | 7.62 | 7.08 | 7.33 | 7.76 | 7.59 |
| MIN  | ---  | 6.61 | 6.61 | 7.12 | 6.83 | 6.85 | 6.80 | 6.79 | 6.62 | 6.72 | 7.17 | 6.68 |

## MISSISSIPPI RIVER DELTA

151

07381440 BAYOU GROSSE TETE AT ROSEDALE, LA

LOCATION.--Lat 30°26'33", long 91°27'06", in SW1/4 sec.27, T.7 S., R.10 E., Iberville Parish, Hydrologic Unit 08070300, at bridge on State Highway 76, at Rosedale.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1960, 1969, 1978 to current year.

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

| DATE      | TIME | SPECIFIC CONDUCTANCE (UMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (NTU) | OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L) | COLIFORM, FECAL, UM-MF (COLS./100 ML) |
|-----------|------|------------------------------|------------|---------------------|-------------------------------|-----------------|-------------------------------------------|---------------------------------------|
| OCT 24... | 0930 | 172                          | 6.5        | 19.0                | 50                            | 15              | .6                                        | K700                                  |
| JAN 07... | 1300 | 328                          | 7.1        | 11.0                | 5                             | 15              | 16.0                                      | 3100                                  |
| APR 02... | 1000 | 462                          | 6.8        | 21.5                | 10                            | 7.0             | 7.2                                       | --                                    |
| JUL 17... | 1400 | 248                          | 7.6        | 32.0                | 15                            | 8.0             | 3.9                                       | K170                                  |

| DATE      | 100 ML | STREPTOCOCCI, KF AGAR (COLS. PER 100 ML) | HARDNESS (MG/L AS CaCO3) | HARDNESS, NONCARBONATE (MG/L AS CaCO3) | CALCIUM DIS-SOLVED (MG/L AS Ca) | MAGNESIUM, DIS-SOLVED (MG/L AS Mg) | SODIUM, DIS-SOLVED (MG/L AS Na) | POTASSIUM, DIS-SOLVED (MG/L AS K) | ALKALINITY, FIELD (MG/L AS CaCO3) | SULFATE DIS-SOLVED (MG/L AS SO4) |
|-----------|--------|------------------------------------------|--------------------------|----------------------------------------|---------------------------------|------------------------------------|---------------------------------|-----------------------------------|-----------------------------------|----------------------------------|
| OCT 24... | 8900   | 65                                       | 11                       | 17                                     | 5.5                             | 6.2                                | 6.6                             | 54                                | 17                                |                                  |
| JAN 07... | 460    | 140                                      | 0                        | 37                                     | 12                              | 13                                 | 5.1                             | 148                               | 15                                |                                  |
| APR 02... | 11000  | 190                                      | 2                        | 49                                     | 16                              | 21                                 | 4.1                             | 186                               | 30                                |                                  |
| JUL 17... | 4200   | 100                                      | 0                        | 25                                     | 9.1                             | 8.9                                | 4.0                             | 107                               | 8.0                               |                                  |

| DATE      | AS CL | CHLORIDE, DIS-SOLVED (MG/L AS CL) | AS F | FLUORIDE, DIS-SOLVED (MG/L AS F) | AS SiO2 | SILICA, DIS-SOLVED (MG/L AS SiO2) | AT 180 DEG. C DIS-SOLVED (MG/L) | SOLIDS, RESIDUE (MG/L) | SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) | NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) |
|-----------|-------|-----------------------------------|------|----------------------------------|---------|-----------------------------------|---------------------------------|------------------------|----------------------------------------|---------------------------|-----------------------------------------------|-------------------------------|
| OCT 24... | 1.4   | .2                                | 8.5  | 118                              | 101     | 1.3                               | 1.7                             | .38                    |                                        |                           |                                               |                               |
| JAN 07... | 8.3   | .2                                | 9.3  | 205                              | 189     | .21                               | 1.3                             | .18                    |                                        |                           |                                               |                               |
| APR 02... | 12    | .1                                | 7.9  | 266                              | 252     | .03                               | 1.3                             | .20                    |                                        |                           |                                               |                               |
| JUL 17... | 6.4   | .1                                | 8.3  | 132                              | 134     | .18                               | 1.9                             | .30                    |                                        |                           |                                               |                               |

| DATE      | AS AS | ARSENIC DIS-SOLVED (UG/L AS AS) | AS AS | ARSENIC IN ROT-TOM MATERIAL (UG/G AS AS) | AS Cd | CADMIUM DIS-SOLVED (UG/L AS Cd) | AS Cd | CADMIUM FM ROT-TOM MATERIAL (UG/G AS Cd) | AS CR | CHROMIUM, HEXAVALENT, DIS-SOLVED (UG/L AS CR) | AS Cu | COPPER, DIS-SOLVED (UG/L AS Cu) | AS Cu | COPPER, RECOV. FM ROT-TOM MATERIAL (UG/G AS Cu) | AS Fe | IRON, DIS-SOLVED (UG/L AS Fe) | AS Fe | IRON, RECOV. FM ROT-TOM MATERIAL (UG/G AS Fe) | AS Pb | LEAD, DIS-SOLVED (UG/L AS Pb) |
|-----------|-------|---------------------------------|-------|------------------------------------------|-------|---------------------------------|-------|------------------------------------------|-------|-----------------------------------------------|-------|---------------------------------|-------|-------------------------------------------------|-------|-------------------------------|-------|-----------------------------------------------|-------|-------------------------------|
| OCT 24... | 9     | 1                               | <1    | 1                                        | 5     | 0                               | 6     | 20                                       | 180   | 6800                                          | 0     |                                 |       |                                                 |       |                               |       |                                               |       |                               |

| DATE      | AS Pb | LEAD, RECOV. FM ROT-TOM MATERIAL (UG/G AS Pb) | AS Mn | MANGANESE, DIS-SOLVED (UG/L AS Mn) | AS Hg | MERCURY TOTAL RECOV. FM ROT-TOM MATERIAL (UG/L AS Hg) | AS Hg | MERCURY RECOV. FM ROT-TOM MATERIAL (UG/G AS Hg) | AS Zn | ZINC, DIS-SOLVED (UG/L AS Zn) | AS Zn | ZINC, RECOV. FM ROT-TOM MATERIAL (UG/G AS Zn) | AS C | CARBON, ORGANIC TOTAL (MG/L AS C) | AS CN | CYANIDE TOTAL (MG/L AS CN) | AS L | PHENOLS (UG/L) | AS L | PCH, TOTAL (UG/L) |
|-----------|-------|-----------------------------------------------|-------|------------------------------------|-------|-------------------------------------------------------|-------|-------------------------------------------------|-------|-------------------------------|-------|-----------------------------------------------|------|-----------------------------------|-------|----------------------------|------|----------------|------|-------------------|
| OCT 24... | 40    | 230                                           | 340   | .0                                 | .05   | 8                                                     | 50    | 14                                              | .00   | 5                             | <.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).



## MISSISSIPPI RIVER DELTA

07381440 BAYOU GROSSE TETE AT ROSEDALE, LA--Continued

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

| DATE         | PCR,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG)                   | NAPH-<br>THA-<br>LENFS,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L)               | PCN,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG)                     | ALDRIN,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)                    | ALDRIN,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG)                 | CHLOR-<br>DANE,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)           | CHLOR-<br>DANE,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDD,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)              | DDD,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG)           | DDE,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)             | DDE,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------|
| OCT<br>24... | <1                                                                         | <.1                                                                         | <1                                                                           | <.01                                                                          | <.1                                                                         | <.1                                                                          | 4.0                                                                 | .02                                                                  | 3.5                                                                | <.01                                                                | 12                                                       |
| DATE         | DDT,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)                    | DDT,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG)                    | DI-<br>AZINON,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)            | DI-<br>AZINON,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG)            | DI-<br>FLDRIN<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)            | DI-<br>FLDRIN<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG)            | ENDO-<br>SULFAN,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDRIN,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)         | ENDRIN,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG)         |                                                          |
| OCT<br>24... | <.01                                                                       | .5                                                                          | <.01                                                                         | <.1                                                                           | .02                                                                         | .3                                                                           | <.01                                                                | <.1                                                                  | <.01                                                               | <.1                                                                 |                                                          |
| DATE         | ETHION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)                 | ETHION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG)                 | HEPTA-<br>CHLOR,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)          | HEPTA-<br>CHLOR,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG)          | HEPTA-<br>EPOXIDE<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)        | HEPTA-<br>EPOXIDE<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG)        | LINDANE<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)          | LINDANE<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG)          | MALA-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | MALA-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |                                                          |
| OCT<br>24... | <.01                                                                       | <.1                                                                         | <.01                                                                         | <.1                                                                           | <.01                                                                        | <.1                                                                          | <.01                                                                | <.1                                                                  | <.01                                                               | <.1                                                                 |                                                          |
| DATE         | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | MIREX,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)           | MIREX,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG)           | PARA-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L) | PARA-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |                                                          |
| OCT<br>24... | <.01                                                                       | <.1                                                                         | .01                                                                          | <.1                                                                           | <.01                                                                        | <.1                                                                          | <.01                                                                | <.1                                                                  | <.01                                                               | <.1                                                                 |                                                          |
| DATE         | PER-<br>THANE<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)           | PER-<br>THANE<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG)           | TOXA-<br>PHENE,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)           | TOXA-<br>PHENE,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG)           | TRI-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)           | TRI-<br>THION,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG)           | 2,4-D,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)           | 2,4-D,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)            | 2,4,5-T<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)         | SILVEX,<br>TOTAL<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/L)          |                                                          |
| OCT<br>24... | <.01                                                                       | <.1                                                                         | <.1                                                                          | <1                                                                            | <.01                                                                        | <.1                                                                          | .48                                                                 | .00                                                                  | .01                                                                | .00                                                                 |                                                          |
| DATE         | SEDIMENT,<br>SUSPENDED<br>(MG/L)                                           | SEDIMENT,<br>SUSPENDED<br>(MG/L)                                            | SEDIMENT,<br>SUSPENDED<br>(MG/L)                                             | SEDIMENT,<br>SUSPENDED<br>(MG/L)                                              | SEDIMENT,<br>SUSPENDED<br>(MG/L)                                            | SEDIMENT,<br>SUSPENDED<br>(MG/L)                                             | SEDIMENT,<br>SUSPENDED<br>(MG/L)                                    | SEDIMENT,<br>SUSPENDED<br>(MG/L)                                     | SEDIMENT,<br>SUSPENDED<br>(MG/L)                                   | SEDIMENT,<br>SUSPENDED<br>(MG/L)                                    |                                                          |
| OCT<br>24... | 46                                                                         | 89                                                                          |                                                                              |                                                                               |                                                                             |                                                                              |                                                                     |                                                                      |                                                                    |                                                                     |                                                          |
| JAN<br>07... | 104                                                                        | 90                                                                          |                                                                              |                                                                               |                                                                             |                                                                              |                                                                     |                                                                      |                                                                    |                                                                     |                                                          |
| APR<br>02... | 75                                                                         | 84                                                                          |                                                                              |                                                                               |                                                                             |                                                                              |                                                                     |                                                                      |                                                                    |                                                                     |                                                          |
| JUL<br>17... | 42                                                                         | 86                                                                          |                                                                              |                                                                               |                                                                             |                                                                              |                                                                     |                                                                      |                                                                    |                                                                     |                                                          |

&lt; Actual value is known to be less than the value shown.

07381450 LOWER GRAND RIVER AT BAYOU SORREL, LA  
(National stream-quality accounting network station)

LOCATION.--Lat 30°09'40", long 91°20'14", in NE1/4 sec.34, T.10 S., R.11 E., Iberville Parish, Hydrologic Unit 08070300, at bridge on State Highway 75 spur in Bayou Sorrel.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1959-60, 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: February 1980 to current year.

WATER TEMPERATURES: February 1980 to current year.

INSTRUMENTATION.--Water-quality monitor since February 1980.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 582 micromhos Feb. 3, 1981; minimum, 142 micromhos Mar. 30, 1980.

WATER TEMPERATURES: Maximum, 34.5°C July 6, 7, 1980; minimum, 7.0°C Feb. 6, 7, 1981.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 582 micromhos Feb. 3; minimum, 180 micromhos July 6.

WATER TEMPERATURES: Maximum, 34.0°C July 23, 24; minimum, 7.0°C Feb. 6, 7.

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

|       |      | STREAM-<br>FLOW<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHUS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COHALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | (OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FFCAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCO<br>FFCAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARDI-<br>NESS<br>(MG/L<br>AS<br>CaCO3) |
|-------|------|------------------------------------------------|---------------------------------------------------|---------------|-----------------------------|----------------------------------------------|------------------------------|--------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------|
| DATE  | TIME |                                                |                                                   |               |                             |                                              |                              |                                      |                                                                |                                                                |                                                                   |                                         |
| OCT   |      |                                                |                                                   |               |                             |                                              |                              |                                      |                                                                |                                                                |                                                                   |                                         |
| 23... | 1330 | 882                                            | 273                                               | 6.9           | 22.5                        | 50                                           | 62                           | 5.0                                  | 1.2                                                            | 500                                                            | 390                                                               | 84                                      |
| JAN   |      |                                                |                                                   |               |                             |                                              |                              |                                      |                                                                |                                                                |                                                                   |                                         |
| 14... | 1200 | 880                                            | 500                                               | 7.4           | 8.0                         | 5                                            | 4.8                          | 10.4                                 | 3.9                                                            | K100                                                           | K7                                                                | 180                                     |
| MAR   |      |                                                |                                                   |               |                             |                                              |                              |                                      |                                                                |                                                                |                                                                   |                                         |
| 13... | 1130 | 596                                            | 474                                               | 7.2           | 14.0                        | 20                                           | 100                          | 7.7                                  | 1.1                                                            | 100                                                            | 320                                                               | 160                                     |
| MAY   |      |                                                |                                                   |               |                             |                                              |                              |                                      |                                                                |                                                                |                                                                   |                                         |
| 11... | 1200 | 1400                                           | 402                                               | 7.1           | 23.5                        | 20                                           | 45                           | 6.7                                  | 4.1                                                            | 400                                                            | 92                                                                | 130                                     |
| JUL   |      |                                                |                                                   |               |                             |                                              |                              |                                      |                                                                |                                                                |                                                                   |                                         |
| 01... | 1430 | 1130                                           | 363                                               | 7.1           | 30.0                        | 10                                           | 39                           | 5.4                                  | 2.2                                                            | 170                                                            | 170                                                               | 130                                     |
| SEP   |      |                                                |                                                   |               |                             |                                              |                              |                                      |                                                                |                                                                |                                                                   |                                         |
| 02... | 1400 | 514                                            | 407                                               | 7.5           | 29.5                        | 10                                           | 44                           | 5.5                                  | 2.4                                                            | K170                                                           | 1200                                                              | 140                                     |

| DATE  | HARDI-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CaCO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS Ca) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS Mg) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS Na) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>FIELD<br>(MG/L<br>AS<br>CaCO3) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS Cl) | FLUO-<br>RINE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|---------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|
| OCT   |                                                         |                                              |                                                      |                                              |                                                     |                                                 |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |
| 23... | 12                                                      | 22                                           | 7.1                                                  | 18                                           | 6.3                                                 | 72                                              | 23                                            | 22                                                  | .2                                                 | 7.5                                               | 162                                                                | 150                                                                 |
| JAN   |                                                         |                                              |                                                      |                                              |                                                     |                                                 |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |
| 14... | 51                                                      | 46                                           | 16                                                   | 32                                           | 3.0                                                 | 130                                             | 60                                            | 39                                                  | .3                                                 | 7.1                                               | 289                                                                | 283                                                                 |
| MAR   |                                                         |                                              |                                                      |                                              |                                                     |                                                 |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |
| 13... | 50                                                      | 41                                           | 13                                                   | 34                                           | 3.2                                                 | 106                                             | 51                                            | 51                                                  | .2                                                 | 6.2                                               | 270                                                                | 264                                                                 |
| MAY   |                                                         |                                              |                                                      |                                              |                                                     |                                                 |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |
| 11... | 43                                                      | 35                                           | 11                                                   | 26                                           | 3.6                                                 | 90                                              | 43                                            | 42                                                  | .1                                                 | 6.5                                               | 232                                                                | 221                                                                 |
| JUL   |                                                         |                                              |                                                      |                                              |                                                     |                                                 |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |
| 01... | 40                                                      | 37                                           | 10                                                   | 21                                           | 3.4                                                 | 94                                              | 44                                            | 25                                                  | .2                                                 | 7.9                                               | 212                                                                | 206                                                                 |
| SEP   |                                                         |                                              |                                                      |                                              |                                                     |                                                 |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |
| 02... | 31                                                      | 38                                           | 11                                                   | 22                                           | 3.9                                                 | 109                                             | 40                                            | 26                                                  | .1                                                 | 7.9                                               | 235                                                                | 215                                                                 |

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

## MISSISSIPPI RIVER DELTA

07381450 LOWER GRAND RIVER AT BAYOU SORREL, LA--Continued

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

| DATE      | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARRON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CARRON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>SUS-<br>PENDED<br>TOTAL<br>(MG/L<br>AS C) |
|-----------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|
| OCT 23... | .72                                                  | .68                                                           | .05                                                  | .05                                                           | 1.5                                                                | .96                                                                         | .31                                         | .28                                                  | --                                            | 8.8                                                    | 1.4                                                             |
| JAN 14... | 1.4                                                  | 1.3                                                           | --                                                   | .37                                                           | 1.1                                                                | 1.1                                                                         | .28                                         | .04                                                  | 20                                            | --                                                     | --                                                              |
| MAR 13... | .83                                                  | .84                                                           | .16                                                  | .19                                                           | 1.5                                                                | 1.1                                                                         | .22                                         | .09                                                  | --                                            | 10                                                     | 1.1                                                             |
| MAY 11... | 1.9                                                  | .00                                                           | .18                                                  | .21                                                           | 1.6                                                                | 1.5                                                                         | .35                                         | .29                                                  | --                                            | 8.0                                                    | .4                                                              |
| JUL 01... | 1.2                                                  | 1.1                                                           | .11                                                  | .09                                                           | 1.3                                                                | .78                                                                         | .16                                         | .08                                                  | --                                            | 4.5                                                    | .9                                                              |
| SEP 02... | 1.4                                                  | 1.4                                                           | .13                                                  | .00                                                           | .86                                                                | .85                                                                         | .19                                         | .10                                                  | 3.9                                           | --                                                     | --                                                              |

| DATE      | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BA) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) |
|-----------|-------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|
| OCT 23... | 5                                   | 4                                            | 100                                                     | 70                                           | 0                                                       | 2                                            | 0                                                              | 0                                                   | 4                                                       | <3                                           |
| JAN 14... | --                                  | --                                           | --                                                      | --                                           | --                                                      | --                                           | --                                                             | --                                                  | --                                                      | --                                           |
| MAR 13... | 2                                   | 2                                            | 100                                                     | 90                                           | 0                                                       | 2                                            | 20                                                             | 10                                                  | 1                                                       | <3                                           |
| MAY 11... | 4                                   | 3                                            | 100                                                     | 90                                           | 0                                                       | 1                                            | 10                                                             | 0                                                   | 1                                                       | <3                                           |
| JUL 01... | 5                                   | 3                                            | --                                                      | 200                                          | 0                                                       | <1                                           | 10                                                             | 0                                                   | 0                                                       | <1                                           |

| DATE      | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PR) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PR) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) |
|-----------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|
| OCT 23... | 9                                                       | 7                                            | 2600                                                  | 50                                         | 8                                                     | 0                                          | 70                                                              | 20                                                   | .1                                                      |
| JAN 14... | --                                                      | --                                           | --                                                    | 20                                         | --                                                    | --                                         | --                                                              | --                                                   | --                                                      |
| MAR 13... | 9                                                       | 5                                            | 3400                                                  | 30                                         | 7                                                     | 2                                          | 160                                                             | 50                                                   | .0                                                      |
| MAY 11... | 10                                                      | 6                                            | 2600                                                  | 70                                         | 140                                                   | 2                                          | 90                                                              | 20                                                   | .1                                                      |
| JUL 01... | 8                                                       | 5                                            | 2300                                                  | 30                                         | 8                                                     | 3                                          | 60                                                              | 20                                                   | .1                                                      |

| DATE      | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AG) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|-----------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| OCT 23... | .0                                           | 6                                                       | 5                                            | 0                                          | 0                                                   | 0                                                       | 0                                            | 50                                                    | 20                                         |
| JAN 14... | --                                           | --                                                      | --                                           | --                                         | --                                                  | --                                                      | --                                           | --                                                    | --                                         |
| MAR 13... | .1                                           | 5                                                       | 4                                            | 0                                          | 0                                                   | 0                                                       | 0                                            | 30                                                    | 20                                         |
| MAY 11... | .0                                           | 4                                                       | 1                                            | 0                                          | 0                                                   | 0                                                       | 0                                            | 70                                                    | 10                                         |
| JUL 01... | .0                                           | 4                                                       | 2                                            | 0                                          | 0                                                   | 0                                                       | 0                                            | 10                                                    | 8                                          |

&lt; Actual value is known to be less than the value shown.

## MISSISSIPPI RIVER DELTA

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07381450 LOWER GRAND RIVER AT BAYOU SORREL, LA--Continued

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

| DATE         | PHYTO-<br>PLANK-<br>TON,<br>TOTAL<br>(CELLS<br>PER ML) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDED<br>(T/DAY) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|--------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|
| OCT<br>23... | 3200                                                   | 120                                        | 286                                                            | 93                                                            |
| JAN<br>14... | --                                                     | 454                                        | 1080                                                           | 96                                                            |
| MAR<br>13... | 5600                                                   | 185                                        | 298                                                            | 98                                                            |
| MAY<br>11... | 5800                                                   | 132                                        | 499                                                            | 98                                                            |
| JUL<br>01... | 9100                                                   | 203                                        | 619                                                            | 64                                                            |
| SEP<br>02... | --                                                     | 125                                        | 173                                                            | 99                                                            |

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 |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-------|-----|
|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH |     |
| 1     | 420     | 391 | ---      | --- | 271      | 247 | ---     | --- | 546      | 522 | 399   | 387 |
| 2     | 409     | 389 | ---      | --- | 318      | 272 | ---     | --- | 556      | 523 | 413   | 401 |
| 3     | 416     | 389 | ---      | --- | ---      | --- | ---     | --- | 582      | 535 | 409   | 401 |
| 4     | 421     | 402 | ---      | --- | ---      | --- | ---     | --- | 573      | 542 | 401   | 387 |
| 5     | 421     | 405 | 434      | 391 | ---      | --- | ---     | --- | 574      | 532 | 388   | 375 |
| 6     | 424     | 397 | 413      | 404 | 383      | 362 | ---     | --- | 546      | 287 | 379   | 373 |
| 7     | 438     | 385 | 407      | 406 | 382      | 372 | ---     | --- | ---      | --- | 383   | 374 |
| 8     | 438     | 389 | 404      | 399 | 412      | 377 | ---     | --- | 422      | 279 | 381   | 379 |
| 9     | 400     | 389 | 400      | 395 | 403      | 379 | ---     | --- | 392      | 277 | 381   | 371 |
| 10    | 407     | 395 | 401      | 397 | 414      | 381 | ---     | --- | 407      | 281 | 406   | 379 |
| 11    | 413     | 405 | 413      | 398 | 469      | 351 | ---     | --- | 282      | 211 | 455   | 397 |
| 12    | 411     | 399 | 419      | 401 | 337      | 240 | ---     | --- | 331      | 235 | 451   | 427 |
| 13    | 439     | 414 | 418      | 411 | 316      | 261 | 490     | 467 | 349      | 313 | 438   | 415 |
| 14    | 444     | 425 | 415      | 411 | 377      | 259 | 509     | 469 | 388      | 326 | 439   | 417 |
| 15    | 443     | 410 | 424      | 413 | 389      | 314 | 557     | 464 | 391      | 341 | 426   | 385 |
| 16    | 419     | 407 | 442      | 408 | 347      | 312 | 510     | 455 | 345      | 297 | 407   | 376 |
| 17    | 424     | 410 | 442      | 434 | 362      | 346 | 533     | 456 | 342      | 302 | 386   | 373 |
| 18    | 441     | 386 | 439      | 398 | 371      | 352 | 541     | 505 | 356      | 332 | 401   | 368 |
| 19    | 398     | 349 | 439      | 417 | 421      | 369 | 541     | 516 | 368      | 349 | 411   | 347 |
| 20    | 360     | 272 | 467      | 420 | 412      | 337 | 529     | 512 | 361      | 353 | 339   | 292 |
| 21    | 370     | 271 | 443      | 410 | 397      | 355 | 530     | 514 | 366      | 355 | 333   | 308 |
| 22    | 312     | 271 | 429      | 410 | 392      | 386 | 549     | 523 | 368      | 360 | 319   | 304 |
| 23    | 286     | 220 | 435      | 399 | 412      | 392 | 537     | 467 | 386      | 367 | 358   | 293 |
| 24    | 298     | 221 | 419      | 377 | 413      | 406 | 509     | 462 | 397      | 374 | 355   | 324 |
| 25    | 356     | 290 | 439      | 342 | 430      | 405 | 501     | 460 | 402      | 378 | 364   | 326 |
| 26    | 396     | 348 | 548      | 363 | 468      | 425 | 517     | 458 | 407      | 382 | 370   | 294 |
| 27    | 394     | 379 | 473      | 344 | 475      | 441 | 518     | 508 | 388      | 381 | 356   | 340 |
| 28    | 384     | 374 | 412      | 265 | 477      | 442 | 512     | 505 | 395      | 379 | 348   | 338 |
| 29    | 382     | 360 | 317      | 263 | ---      | --- | 507     | 505 | ---      | --- | 346   | 310 |
| 30    | 437     | 372 | 385      | 236 | ---      | --- | 522     | 507 | ---      | --- | 341   | 308 |
| 31    | 442     | 395 | ---      | --- | ---      | --- | 543     | 507 | ---      | --- | 353   | 345 |
| MONTH | 444     | 220 | 548      | 236 | 477      | 240 | ---     | --- | 582      | 211 | 455   | 292 |

07381450 LOWER GRAND RIVER AT BAYOU SORREL, LA--Continued

## 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 |
|-------|-------|-----|-----|-----|------|-----|------|-----|--------|-----|-----------|-----|
|       | APRIL |     | MAY |     | JUNE |     | JULY |     | AUGUST |     | SEPTEMBER |     |
| 1     | 365   | 350 | 429 | 402 | ---  | --- | 386  | 369 | ---    | --- | 376       | 359 |
| 2     | 362   | 344 | 436 | 420 | ---  | --- | 378  | 344 | ---    | --- | 408       | 377 |
| 3     | 351   | 344 | 433 | 427 | ---  | --- | 361  | 337 | ---    | --- | 425       | 404 |
| 4     | 352   | 343 | 448 | 431 | ---  | --- | 353  | 295 | ---    | --- | ---       | --- |
| 5     | 367   | 356 | 432 | 393 | 444  | 423 | 288  | 209 | ---    | --- | ---       | --- |
| 6     | 376   | 361 | 415 | 378 | 420  | 403 | 211  | 180 | ---    | --- | 486       | 453 |
| 7     | 387   | 368 | 426 | 392 | 407  | 364 | 223  | 212 | ---    | --- | ---       | --- |
| 8     | 392   | 379 | 427 | 376 | 369  | 361 | 241  | 215 | ---    | --- | ---       | --- |
| 9     | 397   | 391 | 424 | 392 | 400  | 368 | 260  | 242 | ---    | --- | 460       | 425 |
| 10    | 401   | 398 | 459 | 401 | 416  | 387 | 265  | 241 | ---    | --- | 435       | 425 |
| 11    | 407   | 402 | 429 | 379 | 412  | 375 | 273  | 243 | ---    | --- | ---       | --- |
| 12    | 420   | 408 | 451 | 341 | 387  | 361 | 330  | 242 | ---    | --- | ---       | --- |
| 13    | 424   | 415 | 436 | 383 | 384  | 355 | 349  | 329 | 381    | 373 | 462       | 455 |
| 14    | 418   | 414 | 443 | 367 | 389  | 353 | 360  | 338 | 379    | 373 | 456       | 446 |
| 15    | 416   | 407 | 402 | 352 | 385  | 365 | 354  | 338 | 383    | 375 | 448       | 432 |
| 16    | 413   | 393 | 395 | 369 | 380  | 365 | 349  | 328 | 381    | 375 | 436       | 432 |
| 17    | 401   | 386 | 370 | 332 | 396  | 375 | 365  | 343 | 393    | 378 | 449       | 435 |
| 18    | 391   | 383 | 382 | 367 | 383  | 352 | 376  | 353 | 399    | 371 | 511       | 445 |
| 19    | 385   | 380 | 398 | 360 | 367  | 341 | 370  | 363 | 396    | 371 | 512       | 496 |
| 20    | 382   | 379 | 420 | 398 | 385  | 364 | 373  | 356 | 386    | 351 | 561       | 509 |
| 21    | 382   | 375 | 433 | 415 | 384  | 358 | 378  | 357 | 351    | 342 | 546       | 503 |
| 22    | 378   | 372 | 429 | 419 | 376  | 363 | 370  | 361 | 349    | 343 | 499       | 463 |
| 23    | 376   | 366 | 435 | 425 | 368  | 345 | 365  | 327 | 348    | 343 | ---       | --- |
| 24    | 370   | 366 | 434 | 420 | 362  | 342 | 369  | 354 | 360    | 345 | ---       | --- |
| 25    | 371   | 366 | --- | --- | 386  | 334 | 398  | 375 | 359    | 247 | 548       | 486 |
| 26    | 378   | 366 | --- | --- | 385  | 358 | 395  | 390 | 346    | 243 | 568       | 511 |
| 27    | 395   | 375 | --- | --- | 355  | 342 | 390  | 340 | 343    | 341 | 511       | 492 |
| 28    | 400   | 392 | --- | --- | 354  | 345 | 392  | 366 | 353    | 342 | 494       | 490 |
| 29    | 402   | 396 | --- | --- | 370  | 342 | 370  | 364 | 353    | 344 | 504       | 492 |
| 30    | 413   | 397 | --- | --- | 386  | 355 | ---  | --- | 344    | 340 | 504       | 490 |
| 31    | ---   | --- | --- | --- | ---  | --- | ---  | --- | 361    | 340 | ---       | --- |
| MONTH | 424   | 343 | 459 | 332 | 444  | 334 | 398  | 180 | ---    | --- | 568       | 359 |

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

| DAY   | MAX     | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX   | MIN  |
|-------|---------|------|----------|------|----------|------|---------|------|----------|------|-------|------|
|       | OCTOBER |      | NOVEMBER |      | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH |      |
| 1     | 28.0    | 27.0 | 17.5     | 17.0 | 11.0     | 10.0 | 9.0     | 8.5  | 10.5     | 9.0  | 17.0  | 16.5 |
| 2     | 27.5    | 26.5 | 17.5     | 17.0 | 12.0     | 10.5 | 9.0     | 8.0  | 10.5     | 9.5  | 16.5  | 16.0 |
| 3     | 27.0    | 26.0 | 18.0     | 17.0 | 12.5     | 11.5 | 9.0     | 8.0  | 10.0     | 9.0  | 16.0  | 14.5 |
| 4     | 26.0    | 25.5 | 18.0     | 17.0 | 12.5     | 12.0 | 9.0     | 8.5  | 9.0      | 8.5  | 14.5  | 14.0 |
| 5     | 25.5    | 24.5 | 18.0     | 17.0 | 13.0     | 12.0 | 9.0     | 8.5  | 9.0      | 8.0  | 14.5  | 14.0 |
| 6     | 24.5    | 24.0 | 18.0     | 17.0 | 13.5     | 12.5 | 9.0     | 8.5  | 8.0      | 7.0  | 14.0  | 13.0 |
| 7     | 24.0    | 23.0 | 18.0     | 17.0 | 14.0     | 13.5 | 9.5     | 8.5  | 8.5      | 7.0  | 14.0  | 13.5 |
| 8     | 23.5    | 22.5 | 18.0     | 17.5 | 14.5     | 13.5 | 9.0     | 8.5  | 9.0      | 8.0  | 14.0  | 13.0 |
| 9     | 23.5    | 23.0 | 18.5     | 18.0 | 14.5     | 14.5 | 9.5     | 8.5  | 10.0     | 8.5  | 14.5  | 13.0 |
| 10    | 23.5    | 22.5 | 19.0     | 18.0 | 14.5     | 13.0 | 9.0     | 8.5  | 10.5     | 10.0 | 14.5  | 13.5 |
| 11    | 24.0    | 23.0 | 19.0     | 18.5 | 14.5     | 13.5 | 8.5     | 8.0  | 11.0     | 10.0 | 15.0  | 14.0 |
| 12    | 24.0    | 23.0 | 18.5     | 18.0 | 14.0     | 13.0 | ---     | ---  | 10.0     | 9.5  | 15.0  | 14.5 |
| 13    | 23.0    | 22.5 | 18.0     | 17.5 | 13.0     | 12.5 | ---     | ---  | 9.5      | 9.0  | 15.0  | 14.0 |
| 14    | 23.0    | 22.0 | 18.5     | 18.0 | 12.5     | 12.0 | ---     | ---  | 9.0      | 8.5  | 15.5  | 14.5 |
| 15    | 22.5    | 22.0 | 18.5     | 18.5 | 12.0     | 11.5 | ---     | ---  | 9.0      | 8.5  | 15.0  | 14.0 |
| 16    | 23.0    | 22.5 | 18.5     | 17.5 | 12.0     | 12.0 | ---     | ---  | 10.0     | 9.0  | 15.5  | 14.5 |
| 17    | 23.5    | 23.0 | 18.0     | 17.0 | 12.5     | 11.5 | ---     | ---  | 10.0     | 9.5  | 15.0  | 14.0 |
| 18    | 23.5    | 23.0 | 17.0     | 15.0 | 12.0     | 11.0 | ---     | ---  | 11.5     | 10.0 | 16.0  | 14.5 |
| 19    | 23.0    | 22.5 | 15.5     | 14.5 | 12.5     | 11.5 | ---     | ---  | 13.0     | 11.5 | 15.5  | 14.5 |
| 20    | 22.0    | 21.0 | 15.0     | 14.5 | 12.0     | 10.5 | ---     | ---  | 14.5     | 13.0 | 15.0  | 13.5 |
| 21    | 21.0    | 20.5 | 14.5     | 14.0 | ---      | ---  | ---     | ---  | 15.5     | 14.5 | 14.5  | 13.5 |
| 22    | 21.0    | 20.0 | 14.0     | 13.5 | ---      | ---  | ---     | ---  | 16.0     | 15.0 | 14.5  | 13.5 |
| 23    | 21.0    | 20.5 | 14.0     | 13.5 | ---      | ---  | ---     | ---  | 16.0     | 15.5 | 15.0  | 14.0 |
| 24    | 21.5    | 20.5 | 14.0     | 13.5 | 11.0     | 10.5 | ---     | ---  | 16.0     | 15.5 | 15.5  | 13.5 |
| 25    | 22.0    | 20.0 | 13.5     | 13.0 | 10.5     | 10.0 | ---     | ---  | 16.0     | 16.0 | 15.5  | 14.0 |
| 26    | ---     | ---  | 13.0     | 12.5 | 10.0     | 9.5  | 8.5     | 7.5  | 16.5     | 15.5 | 15.5  | 14.0 |
| 27    | 20.5    | 19.5 | 12.0     | 11.5 | 9.5      | 9.0  | 9.0     | 8.0  | 17.0     | 16.0 | 15.5  | 15.0 |
| 28    | 20.5    | 20.0 | 11.5     | 10.5 | 9.5      | 9.0  | 9.5     | 8.5  | 17.0     | 16.0 | 16.5  | 15.0 |
| 29    | 19.5    | 18.5 | 11.0     | 10.0 | 9.5      | 8.5  | 10.0    | 9.0  | ---      | ---  | 16.5  | 14.5 |
| 30    | 18.5    | 17.5 | 11.0     | 10.0 | 9.0      | 8.5  | 10.5    | 9.5  | ---      | ---  | 17.5  | 14.5 |
| 31    | 17.5    | 17.0 | ---      | ---  | 9.0      | 8.0  | 10.5    | 10.0 | ---      | ---  | 19.0  | 17.5 |
| MONTH | 28.0    | 17.0 | 19.0     | 10.0 | 14.5     | 8.0  | ---     | ---  | 17.0     | 7.0  | 19.0  | 13.0 |

## 07381450 LOWER GRAND RIVER AT BAYOU SORREL, 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  |
|-------|-------|------|------|------|------|------|------|------|--------|------|-----------|------|
|       | APRIL |      | MAY  |      | JUNE |      | JULY |      | AUGUST |      | SEPTEMBER |      |
| 1     | 19.5  | 19.0 | 25.5 | 24.5 | ---  | ---  | 30.5 | 30.5 | ---    | ---  | 30.0      | 29.5 |
| 2     | 19.0  | 19.0 | 25.0 | 24.0 | ---  | ---  | 30.5 | 29.0 | ---    | ---  | 30.0      | 29.5 |
| 3     | 20.0  | 19.0 | 24.5 | 23.5 | ---  | ---  | 29.5 | 29.0 | ---    | ---  | 30.0      | 29.5 |
| 4     | 20.0  | 19.0 | 24.0 | 23.5 | ---  | ---  | 29.0 | 28.5 | ---    | ---  | 30.0      | 29.5 |
| 5     | 21.0  | 20.0 | 23.5 | 22.5 | 26.5 | 26.0 | 28.5 | 26.5 | ---    | ---  | 30.5      | 29.5 |
| 6     | 21.0  | 20.5 | 22.5 | 22.0 | 26.5 | 26.0 | 27.5 | 26.5 | ---    | ---  | 30.5      | 29.5 |
| 7     | 21.0  | 20.0 | 23.0 | 22.0 | 26.5 | 26.0 | 26.5 | 27.5 | ---    | ---  | 30.5      | 29.5 |
| 8     | 21.0  | 20.5 | 23.5 | 22.5 | 26.5 | 25.5 | 29.0 | 28.0 | ---    | ---  | 30.5      | 29.5 |
| 9     | 21.5  | 20.5 | 23.5 | 22.5 | 27.5 | 26.5 | 29.5 | 28.5 | ---    | ---  | 30.0      | 29.0 |
| 10    | 22.0  | 21.0 | 24.0 | 23.0 | 28.0 | 27.0 | 29.5 | 29.0 | ---    | ---  | 29.5      | 29.0 |
| 11    | 22.5  | 21.5 | 24.0 | 23.0 | 28.0 | 27.5 | 29.5 | 28.5 | ---    | ---  | 29.0      | 28.5 |
| 12    | 23.0  | 22.0 | 24.5 | 23.0 | 28.5 | 27.5 | 29.5 | 28.5 | ---    | ---  | 29.5      | 29.0 |
| 13    | 23.0  | 22.0 | 24.5 | 23.0 | 29.0 | 28.0 | 30.5 | 29.0 | 31.5   | 30.0 | 29.5      | 29.0 |
| 14    | 23.5  | 22.5 | 25.0 | 23.5 | 29.5 | 28.0 | 31.0 | 30.0 | 32.0   | 30.0 | 29.0      | 28.5 |
| 15    | 24.0  | 23.0 | 25.0 | 23.5 | ---  | ---  | 31.5 | 30.5 | 32.0   | 31.0 | 29.0      | 28.5 |
| 16    | 24.0  | 23.0 | 24.5 | 24.0 | 30.5 | 29.0 | 32.0 | 31.0 | 32.5   | 31.5 | 29.0      | 28.0 |
| 17    | 24.0  | 23.5 | 25.0 | 23.5 | 30.5 | 30.0 | 32.0 | 31.0 | 32.5   | 31.5 | 28.5      | 27.5 |
| 18    | 24.5  | 23.5 | 25.0 | 24.5 | 31.0 | 30.0 | 32.5 | 31.5 | 33.0   | 31.0 | 27.5      | 26.5 |
| 19    | 24.5  | 23.5 | 26.5 | 25.0 | 31.5 | 30.5 | ---  | ---  | 32.5   | 32.0 | 26.5      | 25.5 |
| 20    | 25.0  | 23.5 | 25.5 | 24.5 | 31.5 | 30.5 | ---  | ---  | 32.5   | 32.0 | 26.5      | 25.5 |
| 21    | 25.0  | 24.0 | 25.0 | 24.0 | 31.5 | 30.5 | 33.0 | 32.5 | 32.5   | 31.5 | 26.0      | 25.0 |
| 22    | 24.5  | 24.0 | 25.0 | 24.5 | 31.5 | 31.0 | 33.5 | 32.5 | 32.0   | 31.5 | 25.5      | 25.0 |
| 23    | 24.5  | 24.0 | 25.5 | 24.0 | 31.0 | 30.5 | 34.0 | 31.5 | 32.0   | 31.5 | 26.0      | 25.5 |
| 24    | 24.0  | 23.5 | 25.5 | 24.5 | 30.5 | 30.0 | 34.0 | 33.0 | 31.5   | 31.5 | 26.5      | 25.5 |
| 25    | 24.0  | 23.5 | ---  | ---  | 30.0 | 29.5 | 33.5 | 33.0 | 31.5   | 31.0 | 27.0      | 26.0 |
| 26    | 24.0  | 23.0 | ---  | ---  | 30.0 | 29.5 | 33.0 | 32.5 | 31.5   | 31.0 | 27.0      | 26.5 |
| 27    | 24.0  | 23.5 | ---  | ---  | 30.5 | 29.5 | 33.0 | 31.5 | 31.5   | 30.5 | 27.0      | 26.5 |
| 28    | 24.5  | 23.5 | ---  | ---  | 31.0 | 29.5 | 32.5 | 32.0 | 31.0   | 30.5 | 27.5      | 27.0 |
| 29    | 25.0  | 24.0 | ---  | ---  | 30.5 | 30.0 | 33.0 | 32.0 | 30.5   | 30.0 | 28.0      | 27.0 |
| 30    | ---   | ---  | ---  | ---  | 30.5 | 29.5 | ---  | ---  | 30.0   | 29.5 | 27.5      | 27.0 |
| 31    | ---   | ---  | ---  | ---  | ---  | ---  | ---  | ---  | 30.0   | 29.5 | ---       | ---  |
| MONTH | 25.0  | 19.0 | 26.5 | 22.0 | 31.5 | 25.5 | 34.0 | 26.5 | ---    | ---  | 30.5      | 25.0 |

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO JULY 1981

| DATE<br>TIME        | OCT 23.80<br>1330 | MAR 13.81<br>1130 | MAY 11.81<br>1200 | JUL 1.81<br>1430 |
|---------------------|-------------------|-------------------|-------------------|------------------|
| TOTAL CELLS/ML      | 3200              | 5600              | 5800              | 9100             |
| DIVERSITY: DIVISION | 1.7               | 1.5               | 1.6               | 0.9              |
| ..CLASS             | 1.7               | 1.5               | 1.7               | 0.9              |
| ..ORDER             | 2.4               | 2.1               | 2.4               | 1.2              |
| ...FAMILY           | 2.8               | 2.2               | 2.8               | 1.3              |
| ....GENUS           | 3.5               | 3.0               | 3.4               | 1.3              |

| ORGANISM                  | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT |
|---------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| CHLOROPHYTA (GREEN ALGAE) |              |              |              |              |              |              |              |              |
| ..CHLOROPHYCEAE           |              |              |              |              |              |              |              |              |
| ...CHLOROCOCCALES         |              |              |              |              |              |              |              |              |
| ...HYDRODICTYACEAE        |              |              |              |              |              |              |              |              |
| ....PEDIUMSTRUM           | 96           | 3            | --           | --           | 200          | 3            | --           | --           |
| ...OOCYSTACEAE            |              |              |              |              |              |              |              |              |
| ....ANKISTRODIUMSUS       | 82           | 3            | 480          | 9            | 130          | 2            | 56           | 1            |
| ....CHODATELLA            | --           | --           | --           | --           | --           | --           | *            | 0            |
| ...DICTYOSPHAERIUM        | 41           | 1            | --           | --           | 910#         | 16           | --           | --           |
| ...GLOEOACTINIUM          | --           | --           | --           | --           | --           | --           | *            | 0            |
| ...KIRCHNERIELLA          | 69           | 2            | --           | --           | --           | --           | --           | --           |
| ...OOCYSTIS               | 55           | 2            | --           | --           | *            | 0            | --           | --           |
| ...SELENASTRUM            | --           | --           | 130          | 2            | 50           | 1            | *            | 0            |
| ...TETRAEDRON             | --           | --           | --           | --           | *            | 0            | --           | --           |
| ...TREUBARIA              | *            | 0            | --           | --           | --           | --           | --           | --           |
| ...SCENEDESMACEAE         |              |              |              |              |              |              |              |              |
| ....CRUCIGENIA            | 220          | 7            | --           | --           | --           | --           | --           | --           |
| ...SCENEDESMUS            | 140          | 4            | --           | --           | 350          | 6            | 190          | 2            |
| ...TETRASTRUM             | --           | --           | 110          | 2            | --           | --           | --           | --           |
| ...VOLVOCALES             |              |              |              |              |              |              |              |              |
| ...CHLAMYDOMONADACEAE     |              |              |              |              |              |              |              |              |
| ....CARTERIA              | --           | --           | 53           | 1            | --           | --           | *            | 0            |
| ...CHLAMYDOMONAS          | 27           | 1            | 80           | 1            | 200          | 3            | 56           | 1            |
| ...VOLVOCAEEAE            |              |              |              |              |              |              |              |              |
| ....PANDORINA             | --           | --           | --           | --           | --           | --           | 300          | 3            |

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

\* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%



## MISSISSIPPI RIVER DELTA

07381450 LOWER GRAND RIVER AT BAYOU SORREL, LA--Continued

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO JULY 1981

| DATE<br>TIME                  | OCT 23,80<br>1330 |              | MAR 13,81<br>1130 |              | MAY 11,81<br>1200 |              | JUL 1,81<br>1430 |              |
|-------------------------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|------------------|--------------|
| ORGANISM                      | CELLS<br>/ML      | PER-<br>CENT | CELLS<br>/ML      | PER-<br>CENT | CELLS<br>/ML      | PER-<br>CENT | CELLS<br>/ML     | PER-<br>CENT |
| CHRYSOPHYTA                   |                   |              |                   |              |                   |              |                  |              |
| ..BACILLARIOPHYCEAE           |                   |              |                   |              |                   |              |                  |              |
| ...CENTRALES                  |                   |              |                   |              |                   |              |                  |              |
| ...COSCINODISCAEAE            |                   |              |                   |              |                   |              |                  |              |
| ....COSCINODISCUS             | --                | -            | 53                | 1            | --                | -            | --               | -            |
| ....CYCLOTELLA                | 330               | 10           | 1100#             | 20           | 980#              | 17           | 190              | 2            |
| ....MELOSIRA                  | 300               | 10           | 2000#             | 35           | 100               | 2            | *                | 0            |
| ....STEPHANODISCUS            | --                | -            | --                | -            | 180               | 3            | --               | -            |
| ..PENNALES                    |                   |              |                   |              |                   |              |                  |              |
| ...FRAGILARIACEAE             |                   |              |                   |              |                   |              |                  |              |
| ....ASTERIONELLA              | --                | -            | 53                | 1            | --                | -            | --               | -            |
| ....FRAGILARIA                | *                 | 0            | --                | -            | --                | -            | --               | -            |
| ....SYNEDRA                   | *                 | 0            | --                | -            | --                | -            | --               | -            |
| ...NAVICULACEAE               |                   |              |                   |              |                   |              |                  |              |
| ....NAVICULA                  | --                | -            | *                 | 0            | *                 | 0            | --               | -            |
| ...NITZSCHIAEAE               |                   |              |                   |              |                   |              |                  |              |
| ....NITZSCHIA                 | 270               | 9            | 370               | 7            | 910#              | 16           | 590              | 7            |
| ..CHRYSOPHYCEAE               |                   |              |                   |              |                   |              |                  |              |
| ...CHRYSONOMADIALES           |                   |              |                   |              |                   |              |                  |              |
| ....MALLOMONADACEAE           |                   |              |                   |              |                   |              |                  |              |
| ....MALLOMONAS                | --                | -            | *                 | 0            | --                | -            | --               | -            |
| ..XANTHOPHYCEAE               |                   |              |                   |              |                   |              |                  |              |
| ...HETEROCOCCALES             |                   |              |                   |              |                   |              |                  |              |
| ...CHLOROTHECIACEAE           |                   |              |                   |              |                   |              |                  |              |
| ....OPHIOCYTUM                | --                | -            | --                | -            | *                 | 0            | --               | -            |
| CRYPTOPHYTA (CRYPTOMONADS)    |                   |              |                   |              |                   |              |                  |              |
| ..CRYPTOPHYCEAE               |                   |              |                   |              |                   |              |                  |              |
| ...CRYPTOMONADALES            |                   |              |                   |              |                   |              |                  |              |
| ....CRYPTOMONADACEAE          |                   |              |                   |              |                   |              |                  |              |
| ....CRYPTOMONAS               | 27                | 1            | --                | -            | --                | -            | --               | -            |
| CYANOPHYTA (BLUE-GREEN ALGAE) |                   |              |                   |              |                   |              |                  |              |
| ..CYANOPHYCEAE                |                   |              |                   |              |                   |              |                  |              |
| ...CHROOCOCCALES              |                   |              |                   |              |                   |              |                  |              |
| ....CHROOCOCCACEAE            |                   |              |                   |              |                   |              |                  |              |
| ....AGMENELLUM                | 160               | 5            | --                | -            | 1000#             | 17           | --               | -            |
| ....ANACYSTIS                 | 710#              | 23           | 320               | 6            | 230               | 4            | 220              | 2            |
| ....GOMPHOSPHAERIA            | --                | -            | --                | -            | 100               | 2            | --               | -            |
| ..HORMOGONALES                |                   |              |                   |              |                   |              |                  |              |
| ...OSCILLATORIAEAE            |                   |              |                   |              |                   |              |                  |              |
| ....OSCILLATORIA              | 540#              | 17           | 560               | 10           | 300               | 5            | 7300#            | 80           |
| EUGLENOPHYTA (EUGLENOIDS)     |                   |              |                   |              |                   |              |                  |              |
| ..EUGLENOPHYCEAE              |                   |              |                   |              |                   |              |                  |              |
| ...EUGLENALES                 |                   |              |                   |              |                   |              |                  |              |
| ....EUGLENACEAE               |                   |              |                   |              |                   |              |                  |              |
| ....EUGLENA                   | --                | -            | 130               | 2            | --                | -            | *                | 0            |
| ....LEPOCINCLIS               | --                | -            | *                 | 0            | --                | -            | --               | -            |
| ....PHACUS                    | *                 | 0            | --                | -            | --                | -            | --               | -            |
| ....TRACHELOMONAS             | --                | -            | 53                | 1            | *                 | 0            | *                | 0            |
| PYRRHOPHYTA (FIRE ALGAE)      |                   |              |                   |              |                   |              |                  |              |
| ..DINOPHYCEAE                 |                   |              |                   |              |                   |              |                  |              |
| ...PERIDINIALES               |                   |              |                   |              |                   |              |                  |              |
| ....GLENODINIACEAE            |                   |              |                   |              |                   |              |                  |              |
| ....GLENODINIUM               | --                | -            | --                | -            | *                 | 0            | *                | 0            |
| ...PERIDINIACEAE              |                   |              |                   |              |                   |              |                  |              |
| ....PERIDINIUM                | 27                | 1            | *                 | 0            | --                | -            | --               | -            |

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

\* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

## MISSISSIPPI RIVER DELTA

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## 07381490 ATCHAFALAYA RIVER AT SIMMESPORT, LA

LOCATION.--Lat 30°58'57", long 91°47'54", in NE1/4SW1/4 sec. 7, T. 1 S., R. 7 E., Louisiana meridian, Avoyelles Parish, Hydrologic Unit 08080101, near right bank on downstream side of Kansas City Southern Railway Co. bridge, 0.4 mi (0.6 km) east of town of Simmesport, 0.5 mi (0.8 km) upstream from State Highway 1, and 4.9 mi (7.9 km) downstream from confluence of Red River and Old River (head of Atchafalaya River).

DRAINAGE AREA.--Approximately 87,570 mi<sup>2</sup> or 226,810 km<sup>2</sup> (see REMARKS).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to September 1980 (see NOTE). Gage heights, May 1, 1887 to May 15, 1892, Dec. 1, 1903 to current year, and discharge (intermittently since 1851) are contained in reports of Corps of Engineers, New Orleans district.

REVISED RECORDS.--WDR LA 77-2: 1975.

GAGE.--Water-stage recorder. Datum of gage is 5.73 ft (1.747 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Flow consists of that from the Red River and controlled diversion from the Mississippi River by way of Old River Control Structure. Drainage area does not include non-contributing area or Mississippi River area.

COOPERATION.--Gage height record and computations of daily discharge furnished by Corps of Engineers.

AVERAGE DISCHARGE.--8 years (water years 1972-80), 256,800 ft<sup>3</sup>/s (7,270 m<sup>3</sup>/s), 186,052,000 acre-ft/yr (229 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 781,000 ft<sup>3</sup>/s or 22,100 m<sup>3</sup>/s (observed) May 12, 1973; maximum gage height, 49.05 ft (14.950 m) May 15, 1973; minimum daily, 22,000 ft<sup>3</sup>/s (623 m<sup>3</sup>/s) Oct. 4, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1903, 53.4 ft (16.28 m) May 16, 1927.

EXTREMES FOR CURRENT YEAR.--Water year 1980: Maximum discharge, 462,500 ft<sup>3</sup>/s (13,100 m<sup>3</sup>/s) Apr. 16, gage height, 36.32 ft (11.070 m); minimum daily, 102,000 ft<sup>3</sup>/s (2,890 m<sup>3</sup>/s) Aug. 14.

NOTE.--Records for the 1981 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

| DAY         | OCT      | NOV       | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL       | AUG     | SEP     |
|-------------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|-----------|---------|---------|
| 1           | 226000   | 124000    | 238000   | 209000   | 243000   | 158000   | 402000   | 419000   | 248000   | 176000    | 112000  | 158000  |
| 2           | 234000   | 117000    | 241000   | 211000   | 245000   | 157000   | 406000   | 412000   | 243000   | 172000    | 113000  | 159000  |
| 3           | 236000   | 116000    | 242000   | 230000   | 242000   | 154000   | 410000   | 397000   | 242000   | 167000    | 116000  | 152000  |
| 4           | 237000   | 115000    | 267000   | 242000   | 240000   | 157000   | 414000   | 394000   | 240000   | 158000    | 116000  | 152000  |
| 5           | 238000   | 114000    | 286000   | 254000   | 219000   | 162000   | 422000   | 389000   | 231000   | 153000    | 113000  | 148000  |
| 6           | 237000   | 114000    | 289000   | 259000   | 200000   | 168000   | 425000   | 378000   | 224000   | 151000    | 108000  | 146000  |
| 7           | 236000   | 110000    | 295000   | 262000   | 191000   | 173000   | 425000   | 355000   | 205000   | 148000    | 104000  | 138000  |
| 8           | 234000   | 112000    | 304000   | 255000   | 185000   | 178000   | 432000   | 338000   | 199000   | 152000    | 103000  | 126000  |
| 9           | 229000   | 114000    | 304000   | 252000   | 180000   | 175000   | 429000   | 322000   | 192000   | 152000    | 104000  | 115000  |
| 10          | 212000   | 122000    | 302000   | 249000   | 198000   | 171000   | 429000   | 300000   | 175000   | 149000    | 111000  | 107000  |
| 11          | 201000   | 126000    | 304000   | 247000   | 207000   | 155000   | 428000   | 292000   | 167000   | 148000    | 109000  | 103000  |
| 12          | 203000   | 133000    | 298000   | 242000   | 190000   | 151000   | 438000   | 284000   | 175000   | 149000    | 107000  | 106000  |
| 13          | 197000   | 142000    | 293000   | 235000   | 183000   | 155000   | 443000   | 264000   | 189000   | 150000    | 104000  | 111000  |
| 14          | 194000   | 149000    | 281000   | 228000   | 180000   | 161000   | 446000   | 248000   | 208000   | 148000    | 102000  | 116000  |
| 15          | 188000   | 170000    | 270000   | 209000   | 174000   | 172000   | 459000   | 237000   | 212000   | 143000    | 104000  | 119000  |
| 16          | 176000   | 184000    | 265000   | 191000   | 171000   | 180000   | 462000   | 222000   | 217000   | 137000    | 105000  | 122000  |
| 17          | 171000   | 178000    | 258000   | 183000   | 168000   | 194000   | 459000   | 212000   | 221000   | 135000    | 107000  | 123000  |
| 18          | 164000   | 176000    | 243000   | 182000   | 165000   | 240000   | 454000   | 218000   | 226000   | 135000    | 108000  | 123000  |
| 19          | 155000   | 177000    | 223000   | 182000   | 163000   | 267000   | 450000   | 223000   | 220000   | 137000    | 107000  | 118000  |
| 20          | 152000   | 183000    | 212000   | 180000   | 159000   | 278000   | 450000   | 207000   | 213000   | 137000    | 104000  | 114000  |
| 21          | 150000   | 186000    | 213000   | 180000   | 148000   | 288000   | 447000   | 203000   | 210000   | 142000    | 103000  | 110000  |
| 22          | 150000   | 188000    | 223000   | 189000   | 144000   | 305000   | 438000   | 205000   | 205000   | 139000    | 106000  | 106000  |
| 23          | 155000   | 201000    | 224000   | 218000   | 157000   | 313000   | 428000   | 208000   | 201000   | 147000    | 111000  | 104000  |
| 24          | 149000   | 201000    | 225000   | 232000   | 156000   | 319000   | 423000   | 219000   | 202000   | 148000    | 118000  | 103000  |
| 25          | 153000   | 211000    | 230000   | 225000   | 152000   | 329000   | 424000   | 224000   | 192000   | 151000    | 124000  | 103000  |
| 26          | 154000   | 222000    | 232000   | 231000   | 149000   | 333000   | 426000   | 225000   | 185000   | 152000    | 132000  | 104000  |
| 27          | 152000   | 230000    | 226000   | 240000   | 148000   | 341000   | 424000   | 242000   | 188000   | 148000    | 137000  | 104000  |
| 28          | 149000   | 229000    | 220000   | 244000   | 152000   | 355000   | 425000   | 250000   | 195000   | 144000    | 141000  | 104000  |
| 29          | 146000   | 228000    | 216000   | 242000   | 155000   | 369000   | 424000   | 260000   | 194000   | 126000    | 146000  | 106000  |
| 30          | 133000   | 230000    | 211000   | 238000   | ---      | 383000   | 422000   | 260000   | 192000   | 117000    | 151000  | 109000  |
| 31          | 127000   | ---       | 211000   | 238000   | ---      | 391000   | ---      | 252000   | ---      | 113000    | 155000  | ---     |
| TOTAL       | 5738000  | 4902000   | 7846000  | 6979000  | 5264000  | 7332000  | 12964000 | 8659000  | 6211000  | 4524000   | 3581000 | 3609000 |
| MEAN        | 185100   | 163400    | 253100   | 225100   | 181500   | 236500   | 432100   | 279300   | 207000   | 145900    | 115500  | 120300  |
| MAX         | 238000   | 230000    | 304000   | 262000   | 245000   | 391000   | 462000   | 419000   | 248000   | 176000    | 155000  | 159000  |
| MIN         | 127000   | 110000    | 211000   | 180000   | 144000   | 151000   | 402000   | 203000   | 167000   | 113000    | 102000  | 103000  |
| AC-FT       | 11380000 | 9723000   | 15560000 | 13840000 | 10440000 | 14540000 | 25710000 | 17180000 | 12320000 | 8973000   | 7103000 | 7158000 |
| CAL YR 1979 | TOTAL    | 111105000 | MEAN     | 304400   | MAX      | 605000   | MIN      | 110000   | AC-FT    | 220400000 |         |         |
| WTR YR 1980 | TOTAL    | 77609000  | MEAN     | 212000   | MAX      | 462000   | MIN      | 102000   | AC-FT    | 153900000 |         |         |

## MISSISSIPPI RIVER DELTA

07381490 ATCHAFALAYA RIVER AT SIMMESPORT, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
INSTANTANEOUS OBSERVATIONS AT 0800

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1    | 19.21 | 9.99  | 20.26 | 17.81 | 20.63 | 13.22 | 32.40 | 33.57 | 21.00 | 14.89 | 7.48  | 12.21 |
| 2    | 18.94 | 9.44  | 20.50 | 18.02 | 20.83 | 13.20 | 32.73 | 33.03 | 20.64 | 14.46 | 7.62  | 12.38 |
| 3    | 20.20 | 9.38  | 20.56 | 19.56 | 20.66 | 12.93 | 33.00 | 32.23 | 20.58 | 14.03 | 7.87  | 11.51 |
| 4    | 20.26 | 9.30  | 22.65 | 20.56 | 20.30 | 13.10 | 33.28 | 31.90 | 20.33 | 13.24 | 7.85  | 11.51 |
| 5    | 20.38 | 9.24  | 24.15 | 21.53 | 18.60 | 13.74 | 33.72 | 31.55 | 19.69 | 12.52 | 7.67  | 11.10 |
| 6    | 20.21 | 9.17  | 24.36 | 21.98 | 17.01 | 14.20 | 33.92 | 30.75 | 19.01 | 12.22 | 7.12  | 11.82 |
| 7    | 20.13 | 8.81  | 24.72 | 22.15 | 16.20 | 14.54 | 34.02 | 29.09 | 17.43 | 11.74 | 6.58  | 10.02 |
| 8    | 19.85 | 8.87  | 25.47 | 21.71 | 15.76 | 15.00 | 34.50 | 27.81 | 16.98 | 12.38 | 6.40  | 8.84  |
| 9    | 19.52 | 9.14  | 25.38 | 21.47 | 15.38 | 14.82 | 34.24 | 26.75 | 16.36 | 12.32 | 6.62  | 7.73  |
| 10   | 18.02 | 9.89  | 25.19 | 21.23 | 16.91 | 14.45 | 34.22 | 25.24 | 14.78 | 11.88 | 7.34  | 6.92  |
| 11   | 17.05 | 10.37 | 25.40 | 21.02 | 17.75 | 12.84 | 34.20 | 24.57 | 14.08 | 11.76 | 7.09  | 6.49  |
| 12   | 17.36 | 11.01 | 24.80 | 20.55 | 16.12 | 12.58 | 34.88 | 23.91 | 14.81 | 11.87 | 6.78  | 6.79  |
| 13   | 16.76 | 11.79 | 24.60 | 20.00 | 15.52 | 12.96 | 35.18 | 22.42 | 16.10 | 11.92 | 6.36  | 7.46  |
| 14   | 16.44 | 12.50 | 23.62 | 19.41 | 15.30 | 13.51 | 35.39 | 21.12 | 17.76 | 11.74 | 6.21  | 7.95  |
| 15   | 16.01 | 14.46 | 22.63 | 17.68 | 14.68 | 14.49 | 36.18 | 20.11 | 18.09 | 11.04 | 6.51  | 8.19  |
| 16   | 14.88 | 15.71 | 22.27 | 16.22 | 14.44 | 15.21 | 36.32 | 18.86 | 18.13 | 10.09 | 6.67  | 8.48  |
| 17   | 14.40 | 15.03 | 21.87 | 15.46 | 14.14 | 16.50 | 36.21 | 18.20 | 18.79 | 9.76  | 6.88  | 8.63  |
| 18   | 13.79 | 14.85 | 20.65 | 15.43 | 13.90 | 20.52 | 35.88 | 18.68 | 19.23 | 9.91  | 6.98  | 8.60  |
| 19   | 12.92 | 14.88 | 19.00 | 15.49 | 13.67 | 22.54 | 35.59 | 19.06 | 18.77 | 9.87  | 6.82  | 8.15  |
| 20   | 12.61 | 15.50 | 18.10 | 15.31 | 13.34 | 23.38 | 35.61 | 17.65 | 18.14 | 10.09 | 6.60  | 7.75  |
| 21   | 12.41 | 15.91 | 18.15 | 15.25 | 12.36 | 24.16 | 35.39 | 17.31 | 17.97 | 10.40 | 6.55  | 7.25  |
| 22   | 12.41 | 15.81 | 19.01 | 16.09 | 11.95 | 25.41 | 34.85 | 17.57 | 17.53 | 10.31 | 6.77  | 6.85  |
| 23   | 12.96 | 17.15 | 19.10 | 18.63 | 13.20 | 26.03 | 34.26 | 17.77 | 17.12 | 11.11 | 7.31  | 6.56  |
| 24   | 12.51 | 17.20 | 19.18 | 19.76 | 13.06 | 26.45 | 33.82 | 18.84 | 17.24 | 11.20 | 8.04  | 6.42  |
| 25   | 12.79 | 18.06 | 19.58 | 19.20 | 12.70 | 27.24 | 33.77 | 19.17 | 16.34 | 11.41 | 8.75  | 6.45  |
| 26   | 12.86 | 19.06 | 19.78 | 19.66 | 12.44 | 27.59 | 34.05 | 19.31 | 15.66 | 11.49 | 9.46  | 6.64  |
| 27   | 12.74 | 19.59 | 19.30 | 20.45 | 12.39 | 28.17 | 34.04 | 20.59 | 16.00 | 11.18 | 9.71  | 6.52  |
| 28   | 12.46 | 19.47 | 18.75 | 20.76 | 12.74 | 29.24 | 33.99 | 21.33 | 16.53 | 10.58 | 10.36 | 6.61  |
| 29   | 12.13 | 19.39 | 18.37 | 20.59 | 12.95 | 30.27 | 33.88 | 22.10 | 16.60 | 8.92  | 10.85 | 6.83  |
| 30   | 10.96 | 19.55 | 18.05 | 20.20 | ---   | 31.19 | 33.74 | 21.90 | 16.32 | 7.99  | 11.37 | 7.13  |
| 31   | 10.34 | ---   | 18.01 | 20.30 | ---   | 31.65 | ---   | 21.41 | ---   | 7.66  | 11.84 | ---   |
| MEAN | 15.60 | 13.68 | 21.40 | 19.14 | 15.34 | 19.71 | 34.44 | 23.35 | 17.60 | 11.29 | 7.76  | 8.33  |
| MAX  | 20.38 | 19.59 | 25.47 | 22.15 | 20.83 | 31.65 | 36.32 | 33.57 | 21.00 | 14.89 | 11.84 | 12.38 |
| MIN  | 10.34 | 8.81  | 18.01 | 15.25 | 11.95 | 12.58 | 32.40 | 17.31 | 14.08 | 7.66  | 6.21  | 6.42  |

07381490 ATCHAFALAYA RIVER AT SIMMESPORT, LA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952-53, 1973-80.

## PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1975, October 1978 to September 1979.

WATER TEMPERATURES: December 1975 to September 1976, October 1977 to current year.

CHLORIDE: October 1974 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1972 to September 1980.

REMARKS.--Records for the 1981 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

COOPERATION.--Samples for temperature, chloride, and suspended-sediment analysis are collected by the Corps of Engineers and analyzed by the Geological Survey. Daily suspended-sediment discharge records are computed by the Geological Survey and reviewed by the Corps of Engineers. Corps of Engineers station 03045.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 620 micromhos Dec. 5, 1978; minimum daily, 179 micromhos Feb. 21, 1979.

WATER TEMPERATURES: Maximum daily, 32.0°C July 23, 1981; minimum daily, 2.0°C Jan. 18-20, Feb. 3, 6, 7, 1978, Jan. 15, 1979.

CHLORIDE: Maximum daily, 150 mg/L June 9, 13, 14, 1977; minimum daily, 10 mg/L Apr. 16, 17, 1975.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 1,203,000 tons (1,090,000 tonnes) Feb. 7, 1975; minimum daily, 2,000 tons (1,800 tonnes) Oct. 3-5, 1976.

## EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 32.0°C July 23; minimum daily, 3.0°C Jan. 12, 13.

CHLORIDE: Maximum daily, 140 mg/L Feb. 5; minimum daily, 22 mg/L Mar. 18.

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   | 22.0 | ---  | 9.0  | --- | --- | 9.5  | 15.5 | 20.0 | 21.0 | 27.0 | 30.0 | 27.5 |
| 2   | 22.0 | ---  | 9.5  | --- | --- | ---  | 15.5 | ---  | 21.5 | 27.0 | ---  | 27.5 |
| 3   | 22.0 | 15.5 | 9.0  | --- | 6.5 | 9.0  | 15.5 | ---  | 22.5 | ---  | ---  | 27.5 |
| 4   | 22.0 | 14.5 | 9.5  | --- | 7.0 | 10.0 | ---  | ---  | 22.5 | ---  | 28.5 | 27.0 |
| 5   | ---  | 14.5 | 9.0  | 5.0 | 6.0 | 10.0 | ---  | 20.0 | 23.0 | ---  | 29.0 | 27.0 |
| 6   | ---  | 14.0 | ---  | 6.0 | 6.0 | 9.0  | 16.0 | 20.0 | ---  | 26.0 | 28.0 | ---  |
| 7   | 20.0 | 15.0 | ---  | 5.0 | --- | ---  | 16.0 | 19.5 | ---  | 27.0 | 28.0 | ---  |
| 8   | 20.0 | ---  | 10.0 | 5.0 | --- | ---  | 16.0 | 19.5 | 24.5 | 27.0 | ---  | ---  |
| 9   | 20.0 | ---  | 9.5  | 5.0 | 6.5 | 10.0 | 17.5 | ---  | 25.0 | 27.5 | ---  | 26.5 |
| 10  | 20.0 | ---  | 10.0 | --- | 6.5 | 10.0 | 18.0 | ---  | 25.0 | 27.5 | 27.0 | 26.0 |
| 11  | 20.0 | ---  | 9.0  | --- | 5.0 | 10.0 | ---  | 19.0 | 25.0 | ---  | 27.0 | 26.0 |
| 12  | ---  | 15.0 | 9.0  | 3.0 | 4.0 | 10.0 | ---  | ---  | 25.5 | ---  | 27.0 | ---  |
| 13  | ---  | 14.0 | ---  | 3.0 | 4.0 | 10.0 | 18.5 | 19.5 | ---  | 28.5 | 28.0 | ---  |
| 14  | ---  | ---  | ---  | 4.5 | --- | ---  | 19.0 | 20.0 | ---  | 28.5 | 28.0 | 26.5 |
| 15  | 19.0 | ---  | 8.5  | 4.5 | --- | ---  | 19.0 | 19.5 | 26.5 | 28.5 | ---  | 25.5 |
| 16  | 20.0 | ---  | 9.0  | 4.5 | --- | 7.0  | 19.5 | ---  | ---  | 28.5 | ---  | 26.0 |
| 17  | 20.0 | 14.0 | 9.0  | --- | 6.0 | 10.0 | 20.0 | ---  | 26.0 | 29.0 | 29.0 | 25.0 |
| 18  | ---  | 13.5 | 8.5  | --- | 6.0 | 12.0 | ---  | ---  | 26.5 | ---  | 29.0 | 24.0 |
| 19  | ---  | 13.0 | 9.0  | 4.0 | 6.0 | 11.0 | ---  | 22.0 | 27.0 | ---  | 29.0 | ---  |
| 20  | 19.0 | 13.0 | ---  | 4.0 | 6.5 | 10.0 | 20.5 | 20.5 | ---  | 30.0 | 29.0 | ---  |
| 21  | 19.0 | ---  | ---  | 4.0 | --- | ---  | 20.0 | 19.5 | ---  | 30.0 | 28.0 | 23.0 |
| 22  | 19.0 | ---  | 6.5  | 4.0 | --- | ---  | 20.5 | 19.0 | 27.0 | 30.0 | ---  | 23.0 |
| 23  | 19.0 | ---  | 7.0  | 4.0 | 6.5 | 10.0 | 20.0 | ---  | 27.0 | 32.0 | ---  | 24.0 |
| 24  | 18.0 | 11.0 | 7.0  | --- | 6.5 | 10.5 | 18.5 | ---  | 26.5 | 31.0 | 27.0 | 24.0 |
| 25  | ---  | 11.0 | ---  | --- | 8.0 | ---  | ---  | ---  | 26.5 | ---  | 27.0 | 24.0 |
| 26  | ---  | 10.0 | ---  | 5.0 | 8.0 | ---  | ---  | 20.0 | 27.0 | ---  | 27.0 | ---  |
| 27  | 18.0 | ---  | ---  | 6.0 | 8.0 | ---  | 18.5 | ---  | ---  | 31.0 | 27.0 | ---  |
| 28  | 17.5 | ---  | ---  | 6.0 | --- | ---  | 18.5 | ---  | ---  | 30.0 | 27.0 | 24.0 |
| 29  | 17.0 | ---  | 5.0  | 6.0 | --- | ---  | 20.0 | ---  | 27.0 | 30.0 | ---  | 24.0 |
| 30  | 15.5 | ---  | 6.0  | 6.0 | --- | 13.5 | 20.0 | ---  | 27.0 | 30.0 | ---  | 24.0 |
| 31  | 15.0 | ---  | 7.0  | --- | --- | 14.5 | ---  | ---  | ---  | 30.0 | 27.0 | ---  |
| MAX | 22.0 | ---  | 10.0 | --- | --- | ---  | 20.5 | ---  | ---  | 32.0 | 30.0 | 27.5 |
| MIN | 15.0 | ---  | 5.0  | --- | --- | ---  | 15.5 | ---  | ---  | 26.0 | 27.0 | 23.0 |

## MISSISSIPPI RIVER DELTA

07381490 ATCHAFALAYA RIVER AT SIMMESPORT, LA--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   | 35  | --- | 30  | --- | --- | 34  | 39  | 29  | 34  | 31  | 24  | 32  |
| 2   | 45  | --- | 34  | --- | --- | --- | 30  | --- | 30  | 30  | --- | 32  |
| 3   | 65  | 36  | 26  | --- | 80  | 34  | 35  | --- | 26  | --- | --- | 31  |
| 4   | 65  | 40  | 30  | --- | 110 | 28  | --- | 30  | 37  | --- | 73  | 35  |
| 5   | --- | 36  | 30  | 40  | 140 | 34  | --- | 27  | 29  | --- | 40  | 39  |
| 6   | --- | 30  | --- | 40  | 110 | 31  | 40  | 28  | --- | 26  | 40  | --- |
| 7   | 45  | 29  | --- | 35  | --- | --- | 42  | 28  | --- | 28  | 46  | --- |
| 8   | 35  | --- | 31  | 35  | --- | --- | 40  | 24  | 35  | 30  | --- | --- |
| 9   | 40  | --- | 44  | --- | 90  | 28  | 40  | --- | 30  | 23  | --- | 26  |
| 10  | 30  | --- | 85  | --- | 64  | 36  | 40  | --- | 28  | 30  | 26  | 34  |
| 11  | 30  | --- | 39  | --- | 40  | 30  | --- | 26  | 38  | --- | 35  | 36  |
| 12  | --- | 34  | 36  | --- | 36  | 32  | --- | --- | 46  | --- | 34  | --- |
| 13  | --- | 34  | --- | --- | 40  | 30  | 36  | 31  | --- | 36  | 29  | --- |
| 14  | --- | --- | --- | 54  | --- | --- | 32  | 28  | --- | 30  | 25  | 34  |
| 15  | 30  | --- | 60  | 60  | --- | --- | 32  | 31  | 36  | 30  | --- | 30  |
| 16  | 25  | --- | 45  | 54  | --- | 34  | 32  | --- | 36  | 30  | --- | 36  |
| 17  | 55  | 32  | 50  | --- | 40  | 25  | 29  | --- | 32  | 36  | 32  | 33  |
| 18  | --- | 40  | 45  | --- | 44  | 22  | --- | 37  | 30  | --- | 30  | 34  |
| 19  | --- | 39  | 35  | 54  | 46  | 34  | --- | 39  | 31  | --- | 34  | --- |
| 20  | 30  | 36  | --- | 51  | 42  | 27  | 26  | 34  | --- | 24  | 34  | --- |
| 21  | 30  | --- | --- | 53  | --- | --- | 26  | 35  | --- | 24  | 32  | 34  |
| 22  | 35  | --- | 35  | 47  | --- | --- | 31  | 30  | 41  | 33  | --- | 32  |
| 23  | 40  | --- | --- | --- | 40  | 32  | 24  | --- | 34  | 25  | 30  | 32  |
| 24  | 45  | 38  | 35  | --- | 78  | 33  | 26  | --- | 30  | 26  | 30  | 34  |
| 25  | --- | 42  | --- | --- | 34  | --- | --- | --- | 36  | --- | 36  | 36  |
| 26  | --- | 38  | --- | --- | 40  | --- | --- | 34  | 40  | --- | 30  | --- |
| 27  | 41  | --- | --- | --- | 38  | --- | 28  | --- | --- | 30  | 32  | --- |
| 28  | 46  | --- | --- | 50  | --- | --- | 27  | --- | --- | 28  | 32  | 36  |
| 29  | 48  | --- | --- | 46  | --- | --- | 27  | --- | 34  | 28  | --- | 42  |
| 30  | 37  | --- | 40  | 41  | --- | 38  | 26  | --- | 26  | 24  | --- | 36  |
| 31  | 39  | --- | --- | --- | --- | 36  | --- | --- | --- | 25  | 30  | --- |
| MAX | 65  | --- | --- | --- | --- | --- | 42  | --- | 46  | 36  | 73  | 42  |
| MTN | 25  | --- | --- | --- | --- | --- | 24  | --- | 26  | 23  | 24  | 26  |

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

| DAY   | OCT     | NOV     | DEC     | JAN     | FEB     | MAR     | APR      | MAY     | JUN     | JUL     | AUG     | SEP     |
|-------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|
| 1     | 165000  | 53000   | 180000  | 179000  | 358000  | 203000  | 413000   | 279000  | 219000  | 220000  | 78000   | 83000   |
| 2     | 169000  | 50000   | 181000  | 187000  | 377000  | 193000  | 406000   | 285000  | 198000  | 207000  | 74000   | 84000   |
| 3     | 166000  | 51000   | 179000  | 218000  | 384000  | 180000  | 399000   | 282000  | 183000  | 193000  | 71000   | 79000   |
| 4     | 162000  | 51000   | 206000  | 232000  | 395000  | 177000  | 392000   | 293000  | 168000  | 172000  | 66000   | 79000   |
| 5     | 159000  | 52000   | 225000  | 245000  | 358000  | 178000  | 390000   | 301000  | 163000  | 160000  | 59000   | 76000   |
| 6     | 153000  | 53000   | 227000  | 248000  | 325000  | 180000  | 382000   | 302000  | 160000  | 152000  | 52000   | 75000   |
| 7     | 148000  | 52000   | 232000  | 249000  | 316000  | 180000  | 370000   | 289000  | 144000  | 144000  | 45000   | 69000   |
| 8     | 142000  | 54000   | 240000  | 235000  | 313000  | 180000  | 367000   | 289000  | 142000  | 145000  | 42000   | 61000   |
| 9     | 133000  | 57000   | 238000  | 228000  | 313000  | 169000  | 352000   | 291000  | 138000  | 141000  | 39000   | 53000   |
| 10    | 115000  | 64000   | 233000  | 220000  | 374000  | 156000  | 347000   | 282000  | 124000  | 133000  | 40000   | 48000   |
| 11    | 103000  | 68000   | 233000  | 214000  | 415000  | 130000  | 342000   | 292000  | 119000  | 128000  | 36000   | 46000   |
| 12    | 104000  | 75000   | 224000  | 205000  | 380000  | 119000  | 350000   | 302000  | 131000  | 126000  | 33000   | 48000   |
| 13    | 99000   | 84000   | 217000  | 193000  | 374000  | 119000  | 352000   | 293000  | 150000  | 124000  | 29000   | 51000   |
| 14    | 96000   | 92000   | 202000  | 181000  | 357000  | 126000  | 351000   | 288000  | 178000  | 118000  | 29000   | 55000   |
| 15    | 91000   | 114000  | 188000  | 157000  | 333000  | 139000  | 362000   | 290000  | 188000  | 109000  | 31000   | 57000   |
| 16    | 82000   | 131000  | 181000  | 135000  | 318000  | 149000  | 362000   | 284000  | 200000  | 99000   | 32000   | 60000   |
| 17    | 77000   | 126000  | 173000  | 132000  | 303000  | 167000  | 354000   | 286000  | 211000  | 99000   | 34000   | 61000   |
| 18    | 72000   | 127000  | 157000  | 136000  | 289000  | 230000  | 344000   | 322000  | 224000  | 100000  | 36000   | 61000   |
| 19    | 66000   | 130000  | 137000  | 141000  | 278000  | 270000  | 336000   | 359000  | 221000  | 104000  | 36000   | 58000   |
| 20    | 63000   | 139000  | 130000  | 145000  | 263000  | 287000  | 332000   | 346000  | 217000  | 105000  | 36000   | 55000   |
| 21    | 62000   | 145000  | 135000  | 150000  | 232000  | 303000  | 325000   | 363000  | 218000  | 113000  | 36000   | 52000   |
| 22    | 61000   | 145000  | 149000  | 168000  | 218000  | 330000  | 312000   | 342000  | 216000  | 111000  | 39000   | 50000   |
| 23    | 64000   | 158000  | 154000  | 216000  | 243000  | 344000  | 298000   | 325000  | 216000  | 122000  | 43000   | 49000   |
| 24    | 60000   | 155000  | 159000  | 246000  | 236000  | 354000  | 289000   | 326000  | 223000  | 125000  | 48000   | 48000   |
| 25    | 61000   | 165000  | 169000  | 244000  | 222000  | 372000  | 287000   | 314000  | 213000  | 131000  | 54000   | 47000   |
| 26    | 64000   | 175000  | 176000  | 264000  | 211000  | 379000  | 285000   | 294000  | 207000  | 134000  | 61000   | 46000   |
| 27    | 64000   | 182000  | 175000  | 290000  | 205000  | 380000  | 280000   | 304000  | 218000  | 131000  | 66000   | 45000   |
| 28    | 64000   | 178000  | 173000  | 309000  | 209000  | 391000  | 278000   | 297000  | 236000  | 128000  | 69000   | 44000   |
| 29    | 63000   | 174000  | 173000  | 317000  | 206000  | 401000  | 274000   | 292000  | 241000  | 106000  | 73000   | 45000   |
| 30    | 56000   | 174000  | 172000  | 322000  | ---     | 410000  | 269000   | 272000  | 244000  | 97000   | 77000   | 45000   |
| 31    | 54000   | ---     | 177000  | 334000  | ---     | 409000  | ---      | 241000  | ---     | 86000   | 80000   | ---     |
| TOTAL | 3038000 | 3274000 | 5795000 | 6740000 | 8805000 | 7605000 | 10200000 | 9325000 | 5710000 | 4063000 | 1544000 | 1730000 |
| MEAN  | 98000   | 109000  | 187000  | 217000  | 304000  | 245000  | 340000   | 301000  | 190000  | 131000  | 49800   | 57700   |
| MAX   | 169000  | 182000  | 240000  | 334000  | 415000  | 410000  | 413000   | 363000  | 244000  | 220000  | 80000   | 84000   |
| MIN   | 54000   | 50000   | 130000  | 132000  | 205000  | 119000  | 269000   | 241000  | 119000  | 86000   | 29000   | 44000   |

WTR YR 1980 TOTAL 67829000 MEAN 185000 MAX 415000 MIN 29000

## MISSISSIPPI RIVER DELTA

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07381490 ATCHAFALAYA RIVER AT SIMMESPORT, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

| DATE  | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDED<br>(T/DAY) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|-------|-------------------------------------------------|--------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|
| OCT   |                                                 |                                            |                                                                |                                                               |
| 11... | 189000                                          | 203                                        | 104000                                                         | 91                                                            |
| 25... | 153000                                          | 149                                        | 61600                                                          | 95                                                            |
| NOV   |                                                 |                                            |                                                                |                                                               |
| 08... | 121000                                          | 167                                        | 54600                                                          | 96                                                            |
| 21... | 198000                                          | 271                                        | 145000                                                         | 84                                                            |
| DEC   |                                                 |                                            |                                                                |                                                               |
| 03... | 236000                                          | 282                                        | 180000                                                         | 83                                                            |
| 19... | 212000                                          | 239                                        | 137000                                                         | 87                                                            |
| JAN   |                                                 |                                            |                                                                |                                                               |
| 03... | 228000                                          | 355                                        | 219000                                                         | 87                                                            |
| 16... | 178000                                          | 282                                        | 136000                                                         | 93                                                            |
| 30... | 228000                                          | 523                                        | 322000                                                         | 86                                                            |
| FEB   |                                                 |                                            |                                                                |                                                               |
| 13... | 187000                                          | 741                                        | 374000                                                         | 89                                                            |
| 28... | 147000                                          | 527                                        | 209000                                                         | 84                                                            |
| MAR   |                                                 |                                            |                                                                |                                                               |
| 13... | 178000                                          | 248                                        | 119000                                                         | 80                                                            |
| 26... | 303000                                          | 464                                        | 380000                                                         | 76                                                            |
| APR   |                                                 |                                            |                                                                |                                                               |
| 09... | 448000                                          | 291                                        | 352000                                                         | 71                                                            |
| 30... | 424000                                          | 235                                        | 269000                                                         | 75                                                            |
| MAY   |                                                 |                                            |                                                                |                                                               |
| 07... | 342000                                          | 313                                        | 289000                                                         | 83                                                            |
| 21... | 202000                                          | 666                                        | 363000                                                         | 94                                                            |
| JUN   |                                                 |                                            |                                                                |                                                               |
| 04... | 245000                                          | 254                                        | 168000                                                         | 79                                                            |
| JUL   |                                                 |                                            |                                                                |                                                               |
| 01... | 190000                                          | 430                                        | 221000                                                         | 96                                                            |
| 16... | 144000                                          | 256                                        | 99500                                                          | 96                                                            |
| 30... | 117000                                          | 307                                        | 97000                                                          | 94                                                            |
| AUG   |                                                 |                                            |                                                                |                                                               |
| 13... | 94600                                           | 114                                        | 29100                                                          | 96                                                            |
| 27... | 138000                                          | 177                                        | 66000                                                          | 94                                                            |
| SEP   |                                                 |                                            |                                                                |                                                               |
| 24... | 100000                                          | 178                                        | 43000                                                          | 99                                                            |



## MISSISSIPPI RIVER DELTA

07381495 ATCHAFALAYA RIVER AT MELVILLE, LA  
(National stream-quality accounting network station)

LOCATION.--Lat 30°41'26", long 91°44'10", in SW1/4NW1/4 sec.26, T.4 S., R.7 E., St. Helena Meridian, St. Landry-Pointe Coupee Parish line, Hydrologic Unit 08080101, at bridge on Texas & Pacific Railroad in Melville.

DRAINAGE AREA.--93,316 mi<sup>2</sup> (241,688 km<sup>2</sup>).

PERIOD OF RECORD.--Water years 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1979 to September 1981 (discontinued).

WATER TEMPERATURES: May 1979 to September 1981 (discontinued).

COOPERATION.--Discharge records furnished by the Corps of Engineers. Corps of Engineers station 03060.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 632 micromhos Oct. 8, 1981; minimum daily, 207 micromhos May 21, 1980.

WATER TEMPERATURES: Maximum daily, 32.0°C July 23, 24, 1981; minimum daily, 5.5°C Feb. 7, 1980, Jan. 22, 1981.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 632 micromhos Oct. 8; minimum daily, 296 micromhos June 6.

WATER TEMPERATURES: Maximum daily, 32.0°C July 23, 24; minimum daily, 5.5°C Jan. 22.

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

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | SETTLE-<br>ABLE<br>MATTER<br>(ML/L/<br>HR) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(HIGH<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>TOTAL,<br>IMMED.<br>(COLS.<br>PER<br>100 ML) |
|-------|------|-------------------------------------------------|---------------------------------------------------|---------------|-----------------------------|----------------------------------------------|------------------------------|--------------------------------------------|-------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |               |                             |                                              |                              |                                            |                                     |                                                                 |                                                                |                                                                |
| 08... | 1100 | 114000                                          | 631                                               | 7.3           | 21.5                        | 5                                            | 13                           | <1.0                                       | 8.1                                 | 35                                                              | 4.8                                                            | 2000                                                           |
| NOV   |      |                                                 |                                                   |               |                             |                                              |                              |                                            |                                     |                                                                 |                                                                |                                                                |
| 05... | 1100 | 86000                                           | 477                                               | 7.5           | 15.5                        | 10                                           | 30                           | <1.0                                       | 10.2                                | 20                                                              | 2.0                                                            | 4600                                                           |
| DEC   |      |                                                 |                                                   |               |                             |                                              |                              |                                            |                                     |                                                                 |                                                                |                                                                |
| 03... | 1100 | 99000                                           | 377                                               | 7.1           | 11.0                        | 30                                           | 30                           | <1.0                                       | 10.2                                | 37                                                              | 2.2                                                            | K1200                                                          |
| JAN   |      |                                                 |                                                   |               |                             |                                              |                              |                                            |                                     |                                                                 |                                                                |                                                                |
| 07... | 1100 | 59000                                           | 445                                               | 7.3           | 7.5                         | 10                                           | 19                           | <1.0                                       | 16.0                                | 20                                                              | 6.5                                                            | K160                                                           |
| FEB   |      |                                                 |                                                   |               |                             |                                              |                              |                                            |                                     |                                                                 |                                                                |                                                                |
| 04... | 1400 | 69000                                           | 545                                               | 7.2           | 9.0                         | 70                                           | 20                           | <1.0                                       | 10.9                                | 24                                                              | 2.1                                                            | 58000                                                          |
| MAR   |      |                                                 |                                                   |               |                             |                                              |                              |                                            |                                     |                                                                 |                                                                |                                                                |
| 11... | 1100 | 252000                                          | 355                                               | 6.9           | 11.5                        | 20                                           | 110                          | <1.0                                       | 10.4                                | 34                                                              | 4.0                                                            | K550                                                           |
| APR   |      |                                                 |                                                   |               |                             |                                              |                              |                                            |                                     |                                                                 |                                                                |                                                                |
| 08... | 1100 | 129000                                          | 398                                               | 7.2           | 18.5                        | 15                                           | 60                           | <1.0                                       | 8.6                                 | 23                                                              | 2.3                                                            | K100                                                           |
| MAY   |      |                                                 |                                                   |               |                             |                                              |                              |                                            |                                     |                                                                 |                                                                |                                                                |
| 06... | 1000 | --                                              | 383                                               | 7.2           | 21.5                        | 10                                           | 58                           | <1.0                                       | 8.5                                 | 21                                                              | 1.4                                                            | --                                                             |
| JUN   |      |                                                 |                                                   |               |                             |                                              |                              |                                            |                                     |                                                                 |                                                                |                                                                |
| 10... | 1100 | 310000                                          | 298                                               | 7.1           | 25.0                        | 30                                           | 200                          | <1.0                                       | 7.0                                 | 27                                                              | 1.8                                                            | K2000                                                          |
| JUL   |      |                                                 |                                                   |               |                             |                                              |                              |                                            |                                     |                                                                 |                                                                |                                                                |
| 01... | 0930 | 272000                                          | 321                                               | 7.2           | --                          | 10                                           | 77                           | <1.0                                       | 6.7                                 | 43                                                              | 4.9                                                            | 840                                                            |
| AUG   |      |                                                 |                                                   |               |                             |                                              |                              |                                            |                                     |                                                                 |                                                                |                                                                |
| 12... | 1000 | 179000                                          | 372                                               | 8.0           | 29.5                        | 15                                           | 140                          | <1.0                                       | 6.5                                 | 48                                                              | .2                                                             | K2500                                                          |
| SEP   |      |                                                 |                                                   |               |                             |                                              |                              |                                            |                                     |                                                                 |                                                                |                                                                |
| 02... | 1100 | 105000                                          | 475                                               | 7.8           | 28.0                        | 10                                           | 20                           | <1.0                                       | 7.3                                 | 54                                                              | 2.3                                                            | 960                                                            |

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

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

07381495 ATCHAFALAYA RIVER AT MELVILLE, LA--Continued

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

| DATE      | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCT<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>FIELD<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) |
|-----------|----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|
| OCT 08... | K190                                                           | 2800                                                               | 180                                    | 59                                                     | 46                                           | 15                                                   | 60                                           | 4.0                                                 | 118                                               | 72                                            | 83                                                  | .2                                                 |
| NOV 05... | K60                                                            | 820                                                                | 160                                    | 40                                                     | 40                                           | 14                                                   | 33                                           | 3.8                                                 | 118                                               | 61                                            | 36                                                  | --                                                 |
| DEC 03... | <5                                                             | K95                                                                | 120                                    | 35                                                     | 31                                           | 10                                                   | 30                                           | 3.7                                                 | 84                                                | 48                                            | 40                                                  | --                                                 |
| JAN 07... | K30                                                            | K20                                                                | 160                                    | 49                                                     | 41                                           | 15                                                   | 27                                           | 3.1                                                 | 115                                               | 59                                            | 34                                                  | .3                                                 |
| FEB 04... | K35                                                            | K93                                                                | 160                                    | 30                                                     | 42                                           | 13                                                   | 49                                           | 3.0                                                 | 128                                               | 60                                            | 56                                                  | --                                                 |
| MAR 11... | K500                                                           | 750                                                                | 120                                    | 48                                                     | 32                                           | 9.8                                                  | 23                                           | 2.6                                                 | 72                                                | 47                                            | 29                                                  | .2                                                 |
| APR 08... | 80                                                             | 8500                                                               | 120                                    | 37                                                     | 32                                           | 9.9                                                  | 28                                           | 3.0                                                 | 84                                                | 45                                            | 40                                                  | --                                                 |
| MAY 06... | K93                                                            | 180                                                                | 140                                    | 54                                                     | 39                                           | 11                                                   | 20                                           | 2.7                                                 | 89                                                | 61                                            | 23                                                  | .1                                                 |
| JUN 10... | K110                                                           | K4000                                                              | 100                                    | 37                                                     | 28                                           | 7.5                                                  | 17                                           | 3.1                                                 | 64                                                | 45                                            | 24                                                  | --                                                 |
| JUL 01... | 96                                                             | 420                                                                | 120                                    | 49                                                     | 32                                           | 8.5                                                  | 20                                           | 3.1                                                 | 66                                                | 51                                            | 24                                                  | .1                                                 |
| AUG 12... | K56                                                            | 300                                                                | 130                                    | 29                                                     | 34                                           | 9.9                                                  | 22                                           | 3.8                                                 | 97                                                | 45                                            | 26                                                  | --                                                 |
| SEP 02... | K100                                                           | 170                                                                | 170                                    | 44                                                     | 45                                           | 14                                                   | 29                                           | 3.6                                                 | 126                                               | 50                                            | 34                                                  | .1                                                 |

| DATE      | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTIT-<br>UENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>RESIDUE<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) | NITRO-<br>GEN,<br>NITRATE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) |
|-----------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|
| OCT 08... | 7.6                                               | 357                                                                | 360                                                                 | 116                                                                 | .66                                                  | .02                                                  | .68                                                  | .70                                                           | .11                                                  | .06                                                           | 1.3                                                  | 1.1                                                           |
| NOV 05... | --                                                | --                                                                 | --                                                                  | 29                                                                  | .62                                                  | .02                                                  | .64                                                  | --                                                            | --                                                   | --                                                            | --                                                   | --                                                            |
| DEC 03... | --                                                | --                                                                 | --                                                                  | 37                                                                  | .68                                                  | .01                                                  | .69                                                  | --                                                            | --                                                   | --                                                            | --                                                   | --                                                            |
| JAN 07... | 6.9                                               | 256                                                                | 256                                                                 | 27                                                                  | 1.1                                                  | .02                                                  | 1.1                                                  | 1.2                                                           | .19                                                  | .05                                                           | 1.4                                                  | 1.2                                                           |
| FEB 04... | --                                                | --                                                                 | --                                                                  | 45                                                                  | .72                                                  | .02                                                  | .74                                                  | --                                                            | --                                                   | --                                                            | --                                                   | --                                                            |
| MAR 11... | 5.8                                               | 200                                                                | 194                                                                 | 158                                                                 | 1.2                                                  | .05                                                  | 1.2                                                  | 1.2                                                           | .07                                                  | .09                                                           | 1.3                                                  | .89                                                           |
| APR 08... | --                                                | --                                                                 | --                                                                  | 9                                                                   | 1.1                                                  | .06                                                  | 1.2                                                  | --                                                            | --                                                   | --                                                            | --                                                   | --                                                            |
| MAY 06... | 5.8                                               | 228                                                                | 217                                                                 | 140                                                                 | 1.8                                                  | .02                                                  | 1.8                                                  | 1.8                                                           | .12                                                  | .08                                                           | 1.1                                                  | .83                                                           |
| JUN 10... | --                                                | --                                                                 | --                                                                  | 360                                                                 | 1.8                                                  | .05                                                  | 1.8                                                  | --                                                            | --                                                   | --                                                            | --                                                   | --                                                            |
| JUL 01... | 7.0                                               | 195                                                                | 187                                                                 | 77                                                                  | 1.2                                                  | .02                                                  | 1.2                                                  | 1.1                                                           | .11                                                  | .13                                                           | 1.3                                                  | .87                                                           |
| AUG 12... | --                                                | --                                                                 | --                                                                  | 258                                                                 | .93                                                  | .01                                                  | .94                                                  | --                                                            | --                                                   | --                                                            | --                                                   | --                                                            |
| SEP 02... | 7.8                                               | 274                                                                | 261                                                                 | 74                                                                  | 1.7                                                  | .04                                                  | 1.7                                                  | 1.8                                                           | --                                                   | .41                                                           | --                                                   | .52                                                           |

&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).

## MISSISSIPPI RIVER DELTA

07381495 ATCHAFALAYA RIVER AT MELVILLE, LA--Continued

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

| DATE  | NITRO-<br>GEN-AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN-AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BA) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BE) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) |
|-------|--------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|-------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|
| OCT   |                                                                    |                                                                   |                                             |                                                      |                                     |                                              |                                                         |                                              |                                                                 |                                                      |                                                         |                                              |
| 08... | 1.4                                                                | 1.2                                                               | .23                                         | .04                                                  | 2                                   | 2                                            | 100                                                     | 100                                          | 0                                                               | <1                                                   | 1                                                       | <1                                           |
| NOV   |                                                                    |                                                                   |                                             |                                                      |                                     |                                              |                                                         |                                              |                                                                 |                                                      |                                                         |                                              |
| 05... | --                                                                 | .94                                                               | .25                                         | --                                                   | 2                                   | 1                                            | --                                                      | --                                           | 0                                                               | <1                                                   | 1                                                       | <1                                           |
| DEC   |                                                                    |                                                                   |                                             |                                                      |                                     |                                              |                                                         |                                              |                                                                 |                                                      |                                                         |                                              |
| 03... | --                                                                 | .61                                                               | .13                                         | --                                                   | 2                                   | 1                                            | --                                                      | --                                           | 0                                                               | <1                                                   | 1                                                       | 2                                            |
| JAN   |                                                                    |                                                                   |                                             |                                                      |                                     |                                              |                                                         |                                              |                                                                 |                                                      |                                                         |                                              |
| 07... | 1.6                                                                | 1.2                                                               | .07                                         | .05                                                  | --                                  | --                                           | --                                                      | --                                           | 0                                                               | <1                                                   | --                                                      | --                                           |
| FEB   |                                                                    |                                                                   |                                             |                                                      |                                     |                                              |                                                         |                                              |                                                                 |                                                      |                                                         |                                              |
| 04... | --                                                                 | .88                                                               | .21                                         | --                                                   | 1                                   | 1                                            | --                                                      | --                                           | 30                                                              | <1                                                   | 0                                                       | <1                                           |
| MAR   |                                                                    |                                                                   |                                             |                                                      |                                     |                                              |                                                         |                                              |                                                                 |                                                      |                                                         |                                              |
| 11... | 1.4                                                                | .98                                                               | .12                                         | .07                                                  | 2                                   | 1                                            | 100                                                     | 100                                          | 0                                                               | 0                                                    | 0                                                       | 0                                            |
| APR   |                                                                    |                                                                   |                                             |                                                      |                                     |                                              |                                                         |                                              |                                                                 |                                                      |                                                         |                                              |
| 08... | --                                                                 | .67                                                               | .24                                         | --                                                   | 1                                   | 1                                            | --                                                      | --                                           | 0                                                               | <1                                                   | 0                                                       | <1                                           |
| MAY   |                                                                    |                                                                   |                                             |                                                      |                                     |                                              |                                                         |                                              |                                                                 |                                                      |                                                         |                                              |
| 06... | 1.2                                                                | .91                                                               | .29                                         | .19                                                  | 2                                   | 1                                            | 100                                                     | 60                                           | 10                                                              | <1                                                   | 2                                                       | <1                                           |
| JUN   |                                                                    |                                                                   |                                             |                                                      |                                     |                                              |                                                         |                                              |                                                                 |                                                      |                                                         |                                              |
| 10... | --                                                                 | 1.2                                                               | .63                                         | --                                                   | 2                                   | 1                                            | --                                                      | --                                           | 0                                                               | 0                                                    | 1                                                       | 0                                            |
| JUL   |                                                                    |                                                                   |                                             |                                                      |                                     |                                              |                                                         |                                              |                                                                 |                                                      |                                                         |                                              |
| 01... | 1.4                                                                | 1.0                                                               | .26                                         | .06                                                  | 7                                   | 1                                            | 100                                                     | 100                                          | 0                                                               | <1                                                   | 0                                                       | <1                                           |
| AUG   |                                                                    |                                                                   |                                             |                                                      |                                     |                                              |                                                         |                                              |                                                                 |                                                      |                                                         |                                              |
| 12... | --                                                                 | .86                                                               | .15                                         | --                                                   | 4                                   | 2                                            | --                                                      | --                                           | 0                                                               | <1                                                   | 0                                                       | <1                                           |
| SEP   |                                                                    |                                                                   |                                             |                                                      |                                     |                                              |                                                         |                                              |                                                                 |                                                      |                                                         |                                              |
| 02... | .88                                                                | .93                                                               | .18                                         | .12                                                  | --                                  | --                                           | --                                                      | --                                           | 0                                                               | <1                                                   | --                                                      | --                                           |

| DATE  | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>HEXA-<br>VALENT,<br>DIS-<br>(UG/L<br>AS CR) | CORALT,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO) | CORALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) |
|-------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|
| OCT   |                                                                |                                                     |                                                               |                                                         |                                              |                                                         |                                              |                                                       |                                            |                                                       |                                            |                                                                 |
| 08... | 0                                                              | 0                                                   | 3                                                             | 3                                                       | <3                                           | 13                                                      | 4                                            | 3100                                                  | 10                                         | 4                                                     | 2                                          | 180                                                             |
| NOV   |                                                                |                                                     |                                                               |                                                         |                                              |                                                         |                                              |                                                       |                                            |                                                       |                                            |                                                                 |
| 05... | 0                                                              | --                                                  | 0                                                             | --                                                      | --                                           | 7                                                       | 3                                            | --                                                    | 40                                         | 6                                                     | 2                                          | --                                                              |
| DEC   |                                                                |                                                     |                                                               |                                                         |                                              |                                                         |                                              |                                                       |                                            |                                                       |                                            |                                                                 |
| 03... | 0                                                              | --                                                  | 0                                                             | --                                                      | --                                           | 9                                                       | 0                                            | --                                                    | 50                                         | 8                                                     | 0                                          | --                                                              |
| JAN   |                                                                |                                                     |                                                               |                                                         |                                              |                                                         |                                              |                                                       |                                            |                                                       |                                            |                                                                 |
| 07... | --                                                             | --                                                  | 0                                                             | --                                                      | --                                           | --                                                      | --                                           | --                                                    | --                                         | --                                                    | --                                         | --                                                              |
| FEB   |                                                                |                                                     |                                                               |                                                         |                                              |                                                         |                                              |                                                       |                                            |                                                       |                                            |                                                                 |
| 04... | 0                                                              | --                                                  | 0                                                             | --                                                      | --                                           | 7                                                       | 2                                            | --                                                    | 120                                        | 12                                                    | 0                                          | --                                                              |
| MAR   |                                                                |                                                     |                                                               |                                                         |                                              |                                                         |                                              |                                                       |                                            |                                                       |                                            |                                                                 |
| 11... | 20                                                             | 10                                                  | 0                                                             | 0                                                       | 0                                            | 8                                                       | 3                                            | 6200                                                  | 90                                         | 3                                                     | 2                                          | 260                                                             |
| APR   |                                                                |                                                     |                                                               |                                                         |                                              |                                                         |                                              |                                                       |                                            |                                                       |                                            |                                                                 |
| 08... | 20                                                             | --                                                  | 0                                                             | --                                                      | --                                           | 12                                                      | 4                                            | --                                                    | 40                                         | 7                                                     | 4                                          | --                                                              |
| MAY   |                                                                |                                                     |                                                               |                                                         |                                              |                                                         |                                              |                                                       |                                            |                                                       |                                            |                                                                 |
| 06... | 10                                                             | 0                                                   | 0                                                             | 2                                                       | <3                                           | 7                                                       | 3                                            | 4100                                                  | 30                                         | 12                                                    | 0                                          | 180                                                             |
| JUN   |                                                                |                                                     |                                                               |                                                         |                                              |                                                         |                                              |                                                       |                                            |                                                       |                                            |                                                                 |
| 10... | 20                                                             | --                                                  | 0                                                             | --                                                      | --                                           | 15                                                      | 3                                            | --                                                    | 50                                         | 8                                                     | 2                                          | --                                                              |
| JUL   |                                                                |                                                     |                                                               |                                                         |                                              |                                                         |                                              |                                                       |                                            |                                                       |                                            |                                                                 |
| 01... | 20                                                             | 0                                                   | 0                                                             | 2                                                       | <3                                           | 13                                                      | 5                                            | 6400                                                  | 120                                        | 9                                                     | 2                                          | 250                                                             |
| AUG   |                                                                |                                                     |                                                               |                                                         |                                              |                                                         |                                              |                                                       |                                            |                                                       |                                            |                                                                 |
| 12... | 20                                                             | --                                                  | 0                                                             | --                                                      | --                                           | 16                                                      | 4                                            | --                                                    | 16                                         | 10                                                    | 1                                          | --                                                              |
| SEP   |                                                                |                                                     |                                                               |                                                         |                                              |                                                         |                                              |                                                       |                                            |                                                       |                                            |                                                                 |
| 02... | --                                                             | --                                                  | 0                                                             | --                                                      | --                                           | --                                                      | --                                           | --                                                    | --                                         | --                                                    | --                                         | --                                                              |

&lt; Actual value is known to be less than the value shown.

## MISSISSIPPI RIVER DELTA

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07381495 ATCHAFALAYA RIVER AT MELVILLE, LA--Continued

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

| DATE      | MANGANESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AG) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|-----------|-------------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| OCT 08... | 3                                               | .1                                                      | .0                                           | 6                                                       | 0                                            | 0                                          | 0                                                   | 0                                                       | 0                                            | 1.0                                                | 20                                                    | 3                                          |
| NOV 05... | --                                              | .0                                                      | .0                                           | 5                                                       | 2                                            | 0                                          | 0                                                   | --                                                      | --                                           | 3.0                                                | 20                                                    | 7                                          |
| DEC 03... | --                                              | .0                                                      | .0                                           | 9                                                       | 0                                            | 0                                          | 0                                                   | --                                                      | --                                           | .0                                                 | 40                                                    | 9                                          |
| JAN 07... | --                                              | --                                                      | --                                           | --                                                      | --                                           | --                                         | --                                                  | --                                                      | --                                           | 2.0                                                | --                                                    | --                                         |
| FEB 04... | --                                              | .1                                                      | .0                                           | 5                                                       | 0                                            | 0                                          | 0                                                   | --                                                      | --                                           | 1.0                                                | 30                                                    | 7                                          |
| MAR 11... | 20                                              | .1                                                      | .1                                           | 7                                                       | 2                                            | 0                                          | 0                                                   | 0                                                       | 0                                            | .0                                                 | 50                                                    | 10                                         |
| APR 08... | --                                              | .1                                                      | .0                                           | 4                                                       | 1                                            | 0                                          | 0                                                   | --                                                      | --                                           | 1.0                                                | 30                                                    | 6                                          |
| MAY 06... | 3                                               | .1                                                      | .1                                           | 5                                                       | 2                                            | 0                                          | 0                                                   | 0                                                       | 0                                            | .0                                                 | 30                                                    | 7                                          |
| JUN 10... | --                                              | .1                                                      | .1                                           | 15                                                      | 2                                            | 0                                          | 0                                                   | --                                                      | --                                           | 3.0                                                | 50                                                    | 30                                         |
| JUL 01... | 9                                               | .7                                                      | .1                                           | 8                                                       | 1                                            | 0                                          | 0                                                   | 0                                                       | 0                                            | 1.0                                                | 20                                                    | 20                                         |
| AUG 12... | --                                              | .2                                                      | .1                                           | 10                                                      | 1                                            | 1                                          | 0                                                   | --                                                      | --                                           | .0                                                 | 50                                                    | 4                                          |
| SEP 02... | --                                              | --                                                      | --                                           | --                                                      | --                                           | --                                         | --                                                  | --                                                      | --                                           | 2.0                                                | --                                                    | --                                         |

| DATE      | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>SUS-<br>PENDED<br>TOTAL<br>(MG/L<br>AS C) | CYANIDE<br>TOTAL<br>(MG/L<br>AS CN) | PHENOLS<br>(UG/L) | OIL AND<br>GREASE,<br>TOTAL<br>RECOV.<br>GRAVI-<br>METRIC<br>(MG/L) | PCB,<br>TOTAL<br>(UG/L) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L) | ALDRIN,<br>TOTAL<br>(UG/L) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L) | DDD,<br>TOTAL<br>(UG/L) | DDE,<br>TOTAL<br>(UG/L) |
|-----------|-----------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------|-------------------|---------------------------------------------------------------------|-------------------------|---------------------------------------------------------------|----------------------------|------------------------------------|-------------------------|-------------------------|
| OCT 08... | --                                            | 8.3                                                    | 1.8                                                             | .00                                 | 0                 | 0                                                                   | .0                      | .0                                                            | .000                       | .0                                 | .000                    | .000                    |
| NOV 05... | 5.5                                           | --                                                     | --                                                              | .00                                 | 10                | 0                                                                   | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   |
| DEC 03... | 7.2                                           | --                                                     | --                                                              | .00                                 | 0                 | 0                                                                   | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   |
| JAN 07... | 9.6                                           | --                                                     | --                                                              | .00                                 | 0                 | 0                                                                   | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   |
| FEB 04... | 12                                            | --                                                     | --                                                              | .00                                 | 0                 | 0                                                                   | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   |
| MAR 11... | --                                            | 8.0                                                    | 2.9                                                             | .00                                 | 0                 | 0                                                                   | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   |
| APR 08... | 6.7                                           | --                                                     | --                                                              | .00                                 | 0                 | 0                                                                   | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   |
| MAY 06... | --                                            | 5.2                                                    | .3                                                              | .00                                 | 1                 | 0                                                                   | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   |
| JUN 10... | 8.7                                           | --                                                     | --                                                              | .01                                 | 1                 | 0                                                                   | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   |
| JUL 01... | --                                            | 6.2                                                    | 2.2                                                             | .00                                 | 1                 | 0                                                                   | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   |
| AUG 12... | 13                                            | --                                                     | --                                                              | .00                                 | 1                 | 0                                                                   | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   |
| SEP 02... | 3.9                                           | --                                                     | --                                                              | .00                                 | --                | 0                                                                   | <.1                     | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   |

&lt; Actual value is known to be less than the value shown.

## MISSISSIPPI RIVER DELTA

07381495 ATCHAFALAYA RIVER AT MELVILLE, LA--Continued

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

| DATE      | DDT,<br>TOTAL<br>(UG/L) | DI-<br>AZINON,<br>TOTAL<br>(UG/L) | DI-<br>ELDRIN<br>TOTAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) | ENDRIN,<br>TOTAL<br>(UG/L) | ETHION,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L) | LINDANE<br>TOTAL<br>(UG/L) | MALA-<br>THION,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) |
|-----------|-------------------------|-----------------------------------|----------------------------------|-------------------------------------|----------------------------|----------------------------|-------------------------------------|-----------------------------------------------|----------------------------|------------------------------------|--------------------------------------------|
| OCT 08... | .000                    | .01                               | .041                             | .000                                | .000                       | .00                        | .000                                | .000                                          | .000                       | .00                                | .00                                        |
| NOV 05... | <.001                   | .04                               | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       |
| DEC 03... | .002                    | .01                               | .001                             | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       |
| JAN 07... | <.001                   | .01                               | .001                             | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       |
| FEB 04... | <.001                   | <.01                              | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       |
| MAR 11... | .005                    | <.01                              | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       |
| APR 08... | .007                    | .01                               | .002                             | <.001                               | .002                       | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       |
| MAY 06... | <.001                   | .01                               | .003                             | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       |
| JUN 10... | <.001                   | .01                               | .004                             | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       |
| JUL 01... | <.001                   | .01                               | .003                             | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       |
| AUG 12... | <.001                   | .01                               | .008                             | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       |
| SEP 02... | <.001                   | .07                               | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       |

| DATE      | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L) | MIREX,<br>TOTAL<br>(UG/L) | PARA-<br>THION,<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>TOTAL<br>(UG/L) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOTAL<br>TRI-<br>THION<br>(UG/L) | 2,4-D,<br>TOTAL<br>(UG/L) | 2, 4-DP<br>TOTAL<br>(UG/L) |
|-----------|----------------------------------------------|---------------------------------------------|---------------------------|------------------------------------|----------------------------------|------------------------------------|----------------------------------|---------------------------|----------------------------|
| OCT 08... | .00                                          | .00                                         | .00                       | .00                                | .00                              | .0                                 | .00                              | .01                       | .00                        |
| NOV 05... | <.01                                         | <.01                                        | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .01                       | .00                        |
| DEC 03... | <.01                                         | <.01                                        | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .03                       | .00                        |
| JAN 07... | <.01                                         | <.01                                        | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .04                       | .00                        |
| FEB 04... | <.01                                         | <.01                                        | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .03                       | <.01                       |
| MAR 11... | <.01                                         | <.01                                        | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .03                       | <.01                       |
| APR 08... | <.01                                         | <.01                                        | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .28                       | <.01                       |
| MAY 06... | <.01                                         | <.01                                        | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | <.01                      | <.01                       |
| JUN 10... | <.01                                         | <.01                                        | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .03                       | <.01                       |
| JUL 01... | <.01                                         | <.01                                        | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | <.01                      | <.01                       |
| AUG 12... | <.01                                         | <.01                                        | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | <.01                      | <.01                       |
| SEP 02... | .01                                          | <.01                                        | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .01                       | <.01                       |

&lt; Actual value is known to be less than the value shown.

07381495 ATCHAFALAYA RIVER AT MELVILLE, LA--Continued

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

| DATE      | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) | PHYTO-<br>PLANK-<br>TON,<br>TOTAL<br>(CFLLS<br>PER ML) | CHLOR-A<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) | CHLOR-B<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDED<br>(T/DAY) | SED.<br>SUSP.<br>SIEVE<br>DIAM.,<br>% FINER<br>THAN<br>.062 MM |
|-----------|----------------------------|----------------------------|--------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| OCT 08... | .02                        | .00                        | 100000                                                 | 18.1                                                              | 1.25                                                              | 208                                        | 64000                                                          | 94                                                             |
| NOV 05... | .03                        | .00                        | --                                                     | 8.32                                                              | .000                                                              | 102                                        | 23700                                                          | 94                                                             |
| DEC 03... | .02                        | .00                        | --                                                     | 6.01                                                              | .000                                                              | 94                                         | 25100                                                          | 96                                                             |
| JAN 07... | .01                        | .00                        | --                                                     | 2.27                                                              | .000                                                              | 115                                        | 18300                                                          | 97                                                             |
| FEB 04... | <.01                       | <.01                       | --                                                     | 11.1                                                              | .000                                                              | 112                                        | 20900                                                          | 100                                                            |
| MAR 11... | <.01                       | <.01                       | 4600                                                   | .000                                                              | .000                                                              | 274                                        | 186000                                                         | 96                                                             |
| APR 08... | .03                        | .01                        | --                                                     | 1.83                                                              | .000                                                              | 177                                        | 61600                                                          | 98                                                             |
| MAY 06... | <.01                       | <.01                       | 3600                                                   | .630                                                              | .000                                                              | 218                                        | --                                                             | 100                                                            |
| JUN 10... | .02                        | <.01                       | --                                                     | 2.44                                                              | 1.07                                                              | 560                                        | 469000                                                         | 100                                                            |
| JUL 01... | <.01                       | <.01                       | 8400                                                   | 8.62                                                              | .000                                                              | 378                                        | 278000                                                         | 86                                                             |
| AUG 12... | <.01                       | <.01                       | --                                                     | 3.24                                                              | .000                                                              | 432                                        | 209000                                                         | 98                                                             |
| SEP 02... | .02                        | <.01                       | --                                                     | 7.64                                                              | 1.53                                                              | 288                                        | 81600                                                          | 100                                                            |

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 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   | 499 | 429 | 403 | --- | --- | 408 | --- | --- | 317 | 328 | 389 | --- |
| 2   | 504 | 454 | 397 | 562 | --- | --- | --- | 389 | 312 | 324 | 388 | 479 |
| 3   | 508 | 451 | 390 | --- | --- | 383 | --- | 390 | 316 | --- | 384 | 478 |
| 4   | 501 | 455 | 409 | --- | 562 | 383 | --- | 390 | 326 | --- | 389 | 475 |
| 5   | 500 | 478 | 402 | --- | 529 | 384 | 395 | --- | 326 | --- | 392 | 476 |
| 6   | 500 | 468 | 455 | --- | 505 | 360 | 398 | --- | 296 | 323 | 378 | 476 |
| 7   | 526 | 458 | 454 | 457 | 438 | 363 | 397 | 379 | 297 | --- | 368 | 477 |
| 8   | 632 | 467 | 467 | 475 | 439 | 361 | 402 | 386 | 300 | 328 | 343 | 475 |
| 9   | --- | 466 | 456 | 504 | 440 | 370 | 403 | 386 | 309 | 369 | 343 | 454 |
| 10  | --- | 465 | 476 | 502 | 454 | 359 | 405 | 387 | --- | 369 | 345 | 460 |
| 11  | 412 | 488 | 475 | 508 | 464 | 360 | 368 | 389 | 338 | 369 | 362 | 487 |
| 12  | 413 | 487 | 466 | --- | 476 | 358 | 368 | 382 | 354 | 369 | 377 | 504 |
| 13  | 413 | 479 | 484 | 522 | 468 | 360 | 370 | 396 | 362 | 373 | 371 | 504 |
| 14  | 409 | 473 | 493 | 532 | 418 | 318 | 359 | 411 | 364 | 368 | 368 | 506 |
| 15  | 410 | 485 | 499 | 538 | 416 | 322 | 372 | 421 | 366 | 363 | 360 | 488 |
| 16  | 414 | 485 | 488 | 536 | 413 | 330 | 384 | 431 | 350 | 364 | 376 | 486 |
| 17  | 416 | 486 | 514 | 547 | 422 | 324 | 403 | 430 | 335 | 364 | 416 | 465 |
| 18  | 416 | 498 | 468 | 548 | 433 | 320 | 385 | 430 | 340 | --- | 437 | 463 |
| 19  | 415 | 496 | 415 | 549 | 445 | 324 | 385 | 426 | 338 | --- | --- | 472 |
| 20  | 414 | 477 | 427 | 547 | 446 | 327 | 387 | 407 | 354 | 328 | 452 | --- |
| 21  | 406 | 472 | 418 | 555 | 410 | 351 | 389 | --- | 365 | 321 | 471 | 490 |
| 22  | --- | 467 | 428 | 582 | 408 | 350 | 396 | --- | 364 | 324 | 450 | 491 |
| 23  | 418 | 472 | 411 | 561 | 407 | 350 | 409 | 366 | 346 | 348 | 443 | --- |
| 24  | 413 | 468 | 406 | 543 | 409 | 349 | 407 | 367 | 343 | 347 | 440 | --- |
| 25  | 458 | 473 | 396 | 553 | 405 | 363 | 406 | 365 | 324 | 381 | --- | --- |
| 26  | 461 | 454 | 381 | 546 | 408 | 373 | --- | 377 | --- | 394 | 440 | 514 |
| 27  | 461 | 441 | 377 | 548 | 408 | 373 | 422 | 386 | 322 | 383 | 447 | 512 |
| 28  | 463 | 427 | 375 | 570 | 408 | --- | 415 | 386 | 322 | 397 | 447 | 512 |
| 29  | 433 | 399 | 377 | 579 | --- | --- | 405 | 345 | 324 | 394 | 482 | 533 |
| 30  | 429 | 399 | 386 | 572 | --- | --- | 403 | 312 | --- | 389 | 479 | 519 |
| 31  | 431 | --- | 403 | --- | --- | --- | --- | 312 | --- | 389 | 479 | --- |
| MAX | 632 | 498 | 514 | 582 | 562 | 408 | 422 | 431 | 366 | 397 | 482 | 533 |
| MIN | 406 | 399 | 375 | 457 | 405 | 318 | 359 | 312 | 296 | 321 | 343 | 454 |

&lt; Actual value is known to be less than the value shown.



## MISSISSIPPI RIVER DELTA

07381495 ATCHAFALAYA RIVER AT MELVILLE, LA--Continued

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 | 18.0 | 11.0 | ---  | ---  | 10.5 | ---  | ---  | 22.5 | 28.0 | 29.5 | ---  |
| 2   | 25.0 | 18.0 | 12.0 | 10.0 | ---  | ---  | ---  | 21.5 | 23.0 | 28.0 | 29.5 | 28.0 |
| 3   | 23.5 | 18.0 | 11.0 | ---  | ---  | 10.0 | ---  | 21.5 | 22.5 | ---  | 29.5 | 28.0 |
| 4   | 23.0 | 17.0 | 12.0 | ---  | 9.0  | 10.0 | ---  | 21.5 | 23.5 | ---  | 28.5 | 28.0 |
| 5   | 23.0 | 16.5 | 11.5 | ---  | 10.0 | 11.0 | ---  | ---  | 24.0 | ---  | 29.0 | 28.0 |
| 6   | 22.0 | 18.0 | 11.5 | ---  | 9.0  | 11.5 | 19.0 | ---  | 25.5 | 28.0 | 29.5 | 28.0 |
| 7   | 23.0 | 17.5 | 12.5 | 7.5  | 8.0  | 12.5 | 19.0 | 20.5 | 25.5 | ---  | 29.0 | 28.0 |
| 8   | 22.0 | 17.5 | 12.5 | 7.5  | 8.0  | 11.5 | 18.5 | 20.5 | 25.5 | 28.0 | 29.0 | 28.0 |
| 9   | ---  | 17.5 | 13.0 | 8.0  | 8.0  | 11.5 | 19.0 | 20.5 | 26.0 | 29.5 | 29.0 | 28.0 |
| 10  | ---  | 17.5 | 12.0 | 8.5  | 10.0 | 11.5 | 19.0 | 20.5 | ---  | 29.5 | 29.0 | 27.5 |
| 11  | 22.0 | 18.5 | 12.5 | 8.0  | 8.0  | 11.5 | 19.5 | 20.5 | 25.5 | 29.5 | 29.0 | 27.5 |
| 12  | 22.0 | 18.0 | 13.5 | ---  | 7.5  | 11.5 | 19.5 | 21.5 | 26.5 | 29.5 | 28.0 | 27.5 |
| 13  | 21.5 | 17.5 | 12.5 | 7.5  | 6.5  | 11.5 | 19.5 | 22.0 | ---  | 29.5 | 29.5 | 27.5 |
| 14  | 21.0 | 17.5 | 12.5 | 7.0  | 8.0  | 12.5 | 20.0 | 22.0 | 27.0 | 30.0 | 29.5 | 27.5 |
| 15  | 22.0 | 17.0 | 14.5 | 7.0  | 8.0  | 12.5 | 21.0 | 21.5 | 27.0 | 30.0 | 29.5 | 27.0 |
| 16  | 21.5 | 17.0 | 14.5 | 8.0  | 7.0  | 12.5 | 20.5 | 22.5 | 27.0 | 30.0 | 30.0 | 27.0 |
| 17  | 22.0 | 17.0 | 12.5 | 7.0  | 7.0  | 13.0 | 21.5 | 22.5 | 28.0 | 30.0 | 30.0 | 28.0 |
| 18  | 22.0 | 16.0 | 12.5 | 7.0  | 8.5  | 13.0 | 21.5 | 22.5 | 28.0 | ---  | 30.5 | 28.0 |
| 19  | 22.0 | 16.0 | 12.0 | 7.0  | 10.5 | 12.5 | 21.5 | 22.5 | 28.0 | ---  | ---  | 28.0 |
| 20  | 22.0 | 14.5 | 11.5 | 6.0  | 10.0 | 12.5 | 21.5 | 22.0 | 28.0 | 30.5 | 29.5 | ---  |
| 21  | 21.5 | 14.0 | 10.0 | 6.5  | 10.0 | 12.5 | 21.5 | ---  | 28.0 | 30.5 | 29.0 | 26.0 |
| 22  | ---  | 13.5 | 9.0  | 5.5  | 10.0 | 12.5 | 21.5 | ---  | 28.0 | 31.0 | 29.0 | 25.5 |
| 23  | 21.0 | 13.5 | 10.5 | 6.5  | 10.0 | 12.5 | 20.5 | 21.5 | 28.0 | 32.0 | 29.0 | ---  |
| 24  | 21.0 | 13.5 | 9.0  | 7.0  | 10.0 | 12.5 | 20.5 | 21.5 | 27.5 | 32.0 | 28.5 | ---  |
| 25  | 20.5 | 13.5 | 8.5  | 7.0  | 10.0 | 13.0 | 20.5 | 21.5 | 28.5 | 31.0 | ---  | ---  |
| 26  | 20.5 | 12.5 | 8.5  | 7.0  | 10.0 | 13.0 | ---  | 21.5 | ---  | 31.0 | 28.0 | 25.5 |
| 27  | 21.5 | 12.5 | 8.5  | 8.0  | 10.0 | 13.0 | 20.5 | 21.5 | 28.5 | 31.0 | 28.0 | 25.5 |
| 28  | 20.0 | 13.5 | 9.0  | 7.0  | 10.0 | ---  | 21.0 | 21.5 | 28.5 | 31.0 | 28.0 | 25.5 |
| 29  | 19.0 | 11.0 | 9.0  | 9.0  | ---  | ---  | 21.5 | 21.5 | 28.5 | 30.5 | 28.5 | 25.5 |
| 30  | 18.5 | 11.0 | 8.0  | 9.0  | ---  | ---  | 21.5 | 22.5 | ---  | 30.0 | 28.5 | 25.5 |
| 31  | 17.5 | ---  | 7.5  | ---  | ---  | ---  | ---  | 22.5 | ---  | 30.0 | 28.5 | ---  |
| MAX | 25.0 | 18.5 | 14.5 | 10.0 | 10.5 | 13.0 | 21.5 | 22.5 | 28.5 | 32.0 | 30.5 | 28.0 |
| MIN | 17.5 | 11.0 | 7.5  | 5.5  | 6.5  | 10.0 | 18.5 | 20.5 | 22.5 | 28.0 | 28.0 | 25.5 |

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO JULY 1981

| DATE                      | OCT 8,80  | MAR 11,81 | MAY 6,81  | JUL 1,81  |           |           |           |           |
|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TIME                      | 1100      | 1100      | 1000      | 0930      |           |           |           |           |
| TOTAL CELLS/ML            | 100000    | 4600      | 3600      | 8400      |           |           |           |           |
| DIVERSITY: DIVISION       | 0.7       | 1.6       | 1.4       | 1.0       |           |           |           |           |
| ..CLASS                   | 0.7       | 1.6       | 1.5       | 1.0       |           |           |           |           |
| ...ORDER                  | 1.1       | 2.5       | 2.0       | 1.7       |           |           |           |           |
| ...FAMILY                 | 1.6       | 3.1       | 2.3       | 2.0       |           |           |           |           |
| ....GENUS                 | 1.9       | 3.5       | 3.0       | 2.2       |           |           |           |           |
| ORGANISM                  | CELLS /ML | PER- CENT | CELLS /ML | PER- CENT | CELLS /ML | PER- CENT | CELLS /ML | PER- CENT |
| CHLOROPHYTA (GREEN ALGAE) |           |           |           |           |           |           |           |           |
| ..CHLOROPHYCEAE           |           |           |           |           |           |           |           |           |
| ...CHLOROCOCCALES         |           |           |           |           |           |           |           |           |
| ....COFLASTRACEAE         |           |           |           |           |           |           |           |           |
| .....COFLASTRUM           | --        | -         | --        | -         | --        | -         | 450       | 5         |
| ....MICRACTINIACEAE       |           |           |           |           |           |           |           |           |
| .....MICRACTINIUM         | 820       | 1         | 73        | 2         | --        | -         | --        | -         |
| ....OOCYSTACEAE           |           |           |           |           |           |           |           |           |
| .....ANKISTRODESMUS       | 1600      | 2         | 44        | 1         | 87        | 2         | *         | 0         |
| .....CHONATELLA           | *         | 0         | *         | 0         | --        | -         | --        | -         |
| .....CLOSTERIOPSIS        | --        | -         | --        | -         | *         | 0         | --        | -         |
| .....DICTYOSPHAERIUM      | 1600      | 2         | 230       | 5         | 35        | 1         | 110       | 1         |
| .....KIRCHNERIELLA        | --        | -         | --        | -         | --        | -         | 56        | 1         |
| .....OOCYSTIS             | *         | 0         | --        | -         | *         | 0         | 98        | 1         |
| .....QUADRIGULA           | 820       | 1         | --        | -         | --        | -         | --        | -         |
| ....SCENEDESMACEAE        |           |           |           |           |           |           |           |           |
| .....ACTINASTRUM          | --        | -         | 44        | 1         | --        | -         | --        | -         |
| .....CRUCIGENIA           | 2300      | 2         | --        | -         | --        | -         | --        | -         |
| .....SCENEDESMUS          | 1500      | 1         | 220       | 5         | --        | -         | 280       | 3         |
| ....VOLVOCALES            |           |           |           |           |           |           |           |           |
| ....CHLAMYDOMONADACEAE    |           |           |           |           |           |           |           |           |
| .....CHLAMYDOMONAS        | *         | 0         | 320       | 7         | 140       | 4         | *         | 0         |
| ..ZYGNEATALES             |           |           |           |           |           |           |           |           |
| ...DESMIDIACEAE           |           |           |           |           |           |           |           |           |
| ....COSMARIVUM            | *         | 0         | --        | -         | --        | -         | --        | -         |

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

\* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

07381495 ATCHAFALAYA RIVER AT MELVILLE, LA--Continued

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO JULY 1981

| DATE<br>TIME                  | OCT 8,80<br>1100 | MAR 11,81<br>1100 | MAY 6,81<br>1000 | JUL 1,81<br>0930 |
|-------------------------------|------------------|-------------------|------------------|------------------|
| ORGANISM                      | CELLS<br>/ML     | PER-<br>CENT      | CELLS<br>/ML     | PER-<br>CENT     |
| CHRYSTOPHYTA                  |                  |                   |                  |                  |
| ..RACILLARIOPHYCEAE           |                  |                   |                  |                  |
| ..CENTRALES                   |                  |                   |                  |                  |
| ...COSCINODISCACEAE           |                  |                   |                  |                  |
| ....COSCINODISCUS             | 960              | 1                 | --               | --               |
| ....CYCLOTELLA                | 1500             | 1                 | 630              | 14               |
| ....MFLOSIRA                  | 960              | 1                 | 470              | 10               |
| ....STEPHANODISCUS            | --               | --                | 88               | 2                |
| ..PENNALES                    |                  |                   |                  |                  |
| ...ACHNANTHACEAE              |                  |                   |                  |                  |
| ....ACHNANTHES                | --               | --                | *                | 0                |
| ....COCCONEIS                 | *                | 0                 | --               | --               |
| ....CYMBELLACEAE              |                  |                   |                  |                  |
| ....AMPHORA                   | --               | --                | *                | 0                |
| ....DIATOMACEAE               |                  |                   |                  |                  |
| ....DIATOMA                   | --               | --                | *                | 0                |
| ....FRAGILARIACEAE            |                  |                   |                  |                  |
| ....ASTERIONELLA              | --               | --                | 150              | 3                |
| ....FRAGILARIA                | --               | --                | 73               | 2                |
| ....SYNEDRA                   | --               | --                | *                | 0                |
| ....GOMPHONEMACEAE            |                  |                   |                  |                  |
| ....GOMPHONEMA                | --               | --                | *                | 0                |
| ....NAVICULACEAE              |                  |                   |                  |                  |
| ....NAVICULA                  | *                | 0                 | 44               | 1                |
| ....NITZSCHACEAE              |                  |                   |                  |                  |
| ....NITZSCHIA                 | 820              | 1                 | 180              | 4                |
| ..CHRYSTOPHYCEAE              |                  |                   |                  |                  |
| ..CHRYSONOMADACEAE            |                  |                   |                  |                  |
| ..OCHROMONADACEAE             |                  |                   |                  |                  |
| ..STENOCALEX                  | --               | --                | *                | 0                |
| CYANOPHYTA (BLUE-GREEN ALGAE) |                  |                   |                  |                  |
| ..CYANOPHYCEAE                |                  |                   |                  |                  |
| ...CHROOCOCCALES              |                  |                   |                  |                  |
| ...CHROOCOCCACEAE             |                  |                   |                  |                  |
| ....AGMENELLUM                | --               | --                | --               | --               |
| ....ANACYSTIS                 | 5800             | 6                 | 810              | 18               |
| ...HORMOGONALES               |                  |                   |                  |                  |
| ...NOSTOCACEAE                |                  |                   |                  |                  |
| ....ANARAENA                  | 6400             | 6                 | --               | --               |
| ....APHANIZOMENON             | 1900             | 2                 | 820              | 18               |
| ...OSCILLATORIACEAE           |                  |                   |                  |                  |
| ....LYNGBYA                   | 1100             | 1                 | --               | --               |
| ....OSCILLATORIA              | 73000            | 71                | 290              | 6                |
| EUGLENOPHYTA (EUGLENOIDS)     |                  |                   |                  |                  |
| ..EUGLENOPHYCEAE              |                  |                   |                  |                  |
| ..EUGLENALES                  |                  |                   |                  |                  |
| ...EUGLENACEAE                |                  |                   |                  |                  |
| ....EUGLENA                   | *                | 0                 | 35               | 1                |
| ....TRACHYLOMONAS             | *                | 0                 | 35               | 1                |
| PYRRHOPHYTA (FIRE ALGAE)      |                  |                   |                  |                  |
| ..DINOPHYCEAE                 |                  |                   |                  |                  |
| ..PERIDINIALES                |                  |                   |                  |                  |
| ...PERIDINIACEAE              |                  |                   |                  |                  |
| ....PERIDINIUM                | --               | --                | *                | 0                |

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

\* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

## MISSISSIPPI RIVER DELTA

07385700 BAYOU TECHE AT KEYSTONE LOCK, NEAR ST. MARTINVILLE, LA  
(National stream-quality accounting network station)

LOCATION.--Lat 30°04'15", long 91°49'45", on line between lots 8 and 17, T. 11 S., R. 6 E., St. Martin Parish, Hydrologic Unit 08080102, on right bank of concrete lock and dam, 3.5 mi (5.6 km) south of St. Martinville, and 11 mi (18 km) upstream from Loreauville Canal.

DRAINAGE AREA.--Indeterminate.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1959 to current year. Daily gage heights since July 1913 in reports of Corps of Engineers.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is mean low Gulf level or 0.78 ft (0.238 m) below National Geodetic Vertical Datum of 1929.

REMARKS.--Records good below 1,700 ft<sup>3</sup>/s (48.1 m<sup>3</sup>/s) and poor above. Bayou Teche heads in Bayou Courtableau at Port Barre. At high stages, considerable flow bypasses station by way of Bayou Courtableau at weirs near Krotz Springs. There is controlled diversion to or from Red River and Old River overflow area through Bayou des Glaisses floodgates and to or from West Atchafalaya Floodway through Big D'Arbonne Bayou Culvert and since April 1956 through Bayou Courtableau Drainage Structure. Since April 1952, floodflow is diverted from Bayou Rapides (drainage area, 76.1 mi<sup>2</sup> or 197 km<sup>2</sup>) into Bayou Boeuf when stages of Red River make it necessary to close gates at mouth of Bayou Rapides. Dependent upon its gradient, Bayou Fusilier interchanges flow between Bayou Teche and Vermilion River. Water from irrigation is diverted through Ruth Canal (station 07386700) into Vermilion River. Crest of dam raised from 8.0 ft (2.44 m) to 9.47 ft (2.886 m) in June 1957.

AVERAGE DISCHARGE.--22 years, 505 ft<sup>3</sup>/s (14.30 m<sup>3</sup>/s), 365,900 acre-ft/yr (451 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,970 ft<sup>3</sup>/s (112 m<sup>3</sup>/s) Sept. 5, 1973, maximum gage height, 15.59 ft (4.752 m) Oct. 4, 1964; minimum discharge, no flow Aug. 10-29, 1962, June 12-16, 1963, July 24, 1964, July 21, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height since July 1913, 24.30 ft (7.407 m) May 27, 1927; minimum, 0.75 ft (0.229 m) July 18, 1918.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,040 ft<sup>3</sup>/s (57.8 m<sup>3</sup>/s) June 11; gage height, 11.74 ft (3.578 m); minimum discharge, 57 ft<sup>3</sup>/s (1.61 m<sup>3</sup>/s) Mar. 28, 29, gage height, 9.69 ft (2.954 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY               | OCT    | NOV   | DEC      | JAN      | FEB    | MAR          | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------------|--------|-------|----------|----------|--------|--------------|-------|-------|-------|-------|-------|-------|
| 1                 | 93     | 258   | 454      | 181      | 116    | 237          | 398   | 149   | 603   | 349   | 217   | 141   |
| 2                 | 75     | 258   | 419      | 175      | 137    | 225          | 520   | 145   | 624   | 368   | 216   | 155   |
| 3                 | 73     | 260   | 370      | 173      | 147    | 183          | 545   | 158   | 590   | 533   | 213   | 170   |
| 4                 | 73     | 252   | 337      | 173      | 189    | 158          | 573   | 207   | 605   | 631   | 206   | 205   |
| 5                 | 126    | 234   | 321      | 174      | 342    | 217          | 551   | 503   | 729   | 743   | 215   | 229   |
| 6                 | 133    | 215   | 302      | 184      | 1180   | 473          | 505   | 870   | 992   | 780   | 228   | 242   |
| 7                 | 132    | 199   | 285      | 187      | 1030   | 573          | 470   | 941   | 1240  | 684   | 224   | 249   |
| 8                 | 127    | 192   | 267      | 177      | 863    | 521          | 448   | 870   | 1140  | 639   | 219   | 238   |
| 9                 | 129    | 191   | 418      | 175      | 665    | 442          | 420   | 745   | 942   | 650   | 222   | 222   |
| 10                | 137    | 186   | 647      | 175      | 583    | 454          | 371   | 653   | 1070  | 650   | 230   | 217   |
| 11                | 155    | 171   | 615      | 175      | 626    | 501          | 325   | 562   | 1670  | 699   | 238   | 226   |
| 12                | 155    | 159   | 546      | 173      | 631    | 482          | 277   | 557   | 1230  | 658   | 221   | 245   |
| 13                | 155    | 156   | 500      | 165      | 531    | 478          | 244   | 597   | 999   | 602   | 207   | 248   |
| 14                | 155    | 158   | 451      | 173      | 465    | 439          | 226   | 602   | 820   | 586   | 208   | 256   |
| 15                | 154    | 157   | 439      | 166      | 424    | 418          | 206   | 564   | 742   | 572   | 195   | 291   |
| 16                | 148    | 148   | 431      | 163      | 396    | 405          | 184   | 549   | 715   | 545   | 181   | 297   |
| 17                | 165    | 189   | 418      | 163      | 367    | 343          | 172   | 545   | 709   | 503   | 186   | 350   |
| 18                | 624    | 175   | 395      | 157      | 352    | 333          | 169   | 549   | 692   | 455   | 184   | 386   |
| 19                | 1090   | 163   | 381      | 165      | 323    | 272          | 161   | 552   | 673   | 389   | 184   | 380   |
| 20                | 907    | 180   | 356      | 191      | 321    | 225          | 150   | 525   | 666   | 344   | 183   | 365   |
| 21                | 822    | 201   | 332      | 204      | 329    | 191          | 131   | 487   | 662   | 329   | 184   | 345   |
| 22                | 733    | 320   | 316      | 215      | 323    | 177          | 113   | 438   | 660   | 337   | 185   | 320   |
| 23                | 577    | 671   | 297      | 236      | 307    | 135          | 121   | 385   | 673   | 342   | 180   | 309   |
| 24                | 463    | 422   | 300      | 246      | 297    | 123          | 126   | 334   | 665   | 319   | 171   | 302   |
| 25                | 391    | 321   | 260      | 249      | 285    | 135          | 116   | 287   | 644   | 312   | 160   | 290   |
| 26                | 348    | 823   | 247      | 259      | 254    | 118          | 119   | 268   | 673   | 292   | 150   | 289   |
| 27                | 303    | 777   | 238      | 263      | 240    | 97           | 136   | 373   | 536   | 263   | 148   | 272   |
| 28                | 284    | 631   | 227      | 248      | 233    | 79           | 153   | 548   | 459   | 237   | 138   | 246   |
| 29                | 268    | 538   | 221      | 176      | ---    | 71           | 168   | 605   | 420   | 230   | 139   | 231   |
| 30                | 261    | 497   | 204      | 93       | ---    | 95           | 161   | 596   | 386   | 216   | 146   | 226   |
| 31                | 256    | ---   | 182      | 96       | ---    | 156          | ---   | 606   | ---   | 225   | 145   | ---   |
| TOTAL             | 9512   | 9102  | 11176    | 5750     | 11956  | 8756         | 8259  | 15770 | 23229 | 14482 | 5927  | 7942  |
| MEAN              | 307    | 303   | 361      | 185      | 427    | 282          | 275   | 509   | 774   | 467   | 191   | 265   |
| MAX               | 1090   | 823   | 647      | 263      | 1180   | 573          | 573   | 941   | 1670  | 780   | 238   | 386   |
| MIN               | 73     | 148   | 182      | 93       | 116    | 71           | 113   | 145   | 386   | 216   | 138   | 141   |
| AC-FT             | 18870  | 18050 | 22170    | 11410    | 23710  | 17370        | 16380 | 31280 | 46070 | 28730 | 11760 | 15750 |
| CAL YR 1980 TOTAL | 191434 |       | MEAN 523 | MAX 2410 | MIN 22 | AC-FT 379700 |       |       |       |       |       |       |
| WTR YR 1981 TOTAL | 131861 |       | MEAN 361 | MAX 1670 | MIN 71 | AC-FT 261500 |       |       |       |       |       |       |

07385700 BAYOU TECHE AT KEYSTONE LOCK, NEAR ST. MARTINVILLE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1    | 9.86  | 10.10 | 10.36 | 9.96  | 9.83  | 10.06 | 10.29 | 9.90  | 10.53 | 10.22 | 10.03 | 9.88  |
| 2    | 9.82  | 10.10 | 10.31 | 9.95  | 9.87  | 10.04 | 10.43 | 9.89  | 10.55 | 10.25 | 10.03 | 9.91  |
| 3    | 9.81  | 10.10 | 10.25 | 9.95  | 9.89  | 9.97  | 10.46 | 9.92  | 10.51 | 10.45 | 10.02 | 9.94  |
| 4    | 9.81  | 10.09 | 10.21 | 9.95  | 9.98  | 9.92  | 10.49 | 10.01 | 10.53 | 10.56 | 10.01 | 10.01 |
| 5    | 9.93  | 10.06 | 10.18 | 9.95  | 10.20 | 10.02 | 10.47 | 10.40 | 10.66 | 10.68 | 10.02 | 10.05 |
| 6    | 9.95  | 10.03 | 10.16 | 9.97  | 11.09 | 10.38 | 10.42 | 10.81 | 10.93 | 10.72 | 10.05 | 10.07 |
| 7    | 9.95  | 10.00 | 10.14 | 9.97  | 10.96 | 10.49 | 10.38 | 10.88 | 11.14 | 10.62 | 10.04 | 10.08 |
| 8    | 9.94  | 9.98  | 10.11 | 9.95  | 10.80 | 10.44 | 10.35 | 10.81 | 11.06 | 10.57 | 10.03 | 10.06 |
| 9    | 9.94  | 9.98  | 10.30 | 9.95  | 10.60 | 10.34 | 10.31 | 10.68 | 10.88 | 10.58 | 10.04 | 10.04 |
| 10   | 9.96  | 9.97  | 10.57 | 9.95  | 10.51 | 10.36 | 10.25 | 10.58 | 10.97 | 10.58 | 10.05 | 10.03 |
| 11   | 9.99  | 9.94  | 10.54 | 9.95  | 10.55 | 10.41 | 10.19 | 10.48 | 11.48 | 10.63 | 10.06 | 10.04 |
| 12   | 9.99  | 9.92  | 10.46 | 9.95  | 10.56 | 10.39 | 10.12 | 10.48 | 11.14 | 10.59 | 10.03 | 10.07 |
| 13   | 9.99  | 9.91  | 10.41 | 9.93  | 10.45 | 10.39 | 10.07 | 10.52 | 10.93 | 10.53 | 10.01 | 10.08 |
| 14   | 9.99  | 9.92  | 10.35 | 9.95  | 10.37 | 10.34 | 10.04 | 10.53 | 10.76 | 10.51 | 10.01 | 10.09 |
| 15   | 9.99  | 9.91  | 10.34 | 9.93  | 10.32 | 10.31 | 10.01 | 10.48 | 10.68 | 10.49 | 9.99  | 10.14 |
| 16   | 9.98  | 9.90  | 10.33 | 9.93  | 10.28 | 10.29 | 9.97  | 10.47 | 10.65 | 10.46 | 9.96  | 10.15 |
| 17   | 9.97  | 9.98  | 10.31 | 9.93  | 10.25 | 10.22 | 9.94  | 10.46 | 10.64 | 10.42 | 9.97  | 10.22 |
| 18   | 10.50 | 9.95  | 10.28 | 9.91  | 10.23 | 10.20 | 9.94  | 10.47 | 10.62 | 10.36 | 9.98  | 10.27 |
| 19   | 11.02 | 9.93  | 10.26 | 9.93  | 10.19 | 10.12 | 9.92  | 10.47 | 10.60 | 10.27 | 9.97  | 10.26 |
| 20   | 10.85 | 9.96  | 10.23 | 9.98  | 10.18 | 10.04 | 9.90  | 10.44 | 10.60 | 10.22 | 9.97  | 10.24 |
| 21   | 10.76 | 10.00 | 10.20 | 10.01 | 10.20 | 9.98  | 9.86  | 10.40 | 10.59 | 10.20 | 9.97  | 10.22 |
| 22   | 10.67 | 10.16 | 10.18 | 10.02 | 10.19 | 9.95  | 9.83  | 10.34 | 10.59 | 10.20 | 9.97  | 10.18 |
| 23   | 10.50 | 10.60 | 10.15 | 10.06 | 10.17 | 9.87  | 9.84  | 10.27 | 10.60 | 10.21 | 9.96  | 10.17 |
| 24   | 10.37 | 10.32 | 10.16 | 10.08 | 10.15 | 9.85  | 9.85  | 10.20 | 10.59 | 10.18 | 9.94  | 10.16 |
| 25   | 10.28 | 10.18 | 10.10 | 10.08 | 10.14 | 9.87  | 9.83  | 10.14 | 10.57 | 10.17 | 9.92  | 10.14 |
| 26   | 10.22 | 10.75 | 10.08 | 10.10 | 10.09 | 9.84  | 9.84  | 10.11 | 10.60 | 10.15 | 9.90  | 10.14 |
| 27   | 10.16 | 10.71 | 10.06 | 10.10 | 10.07 | 9.79  | 9.87  | 10.25 | 10.45 | 10.10 | 9.90  | 10.12 |
| 28   | 10.13 | 10.56 | 10.04 | 10.08 | 10.05 | 9.75  | 9.91  | 10.47 | 10.36 | 10.06 | 9.88  | 10.08 |
| 29   | 10.11 | 10.46 | 10.03 | 9.95  | ---   | 9.73  | 9.94  | 10.53 | 10.31 | 10.05 | 9.88  | 10.05 |
| 30   | 10.09 | 10.41 | 10.00 | 9.78  | ---   | 9.79  | 9.92  | 10.52 | 10.27 | 10.03 | 9.89  | 10.04 |
| 31   | 10.09 | ---   | 9.96  | 9.79  | ---   | 9.91  | ---   | 10.53 | ---   | 10.04 | 9.89  | ---   |
| MEAN | 10.15 | 10.13 | 10.23 | 9.97  | 10.29 | 10.10 | 10.09 | 10.40 | 10.69 | 10.36 | 9.98  | 10.10 |
| MAX  | 11.02 | 10.75 | 10.57 | 10.10 | 11.09 | 10.49 | 10.49 | 10.88 | 11.48 | 10.72 | 10.06 | 10.27 |
| MIN  | 9.81  | 9.90  | 9.96  | 9.78  | 9.83  | 9.73  | 9.83  | 9.89  | 10.27 | 10.03 | 9.88  | 9.88  |

## MISSISSIPPI RIVER DELTA

07385700 BAYOU TECHE AT KEYSTONE LOCK, NEAR ST. MARTINVILLE, LA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-67, 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1981 (discontinued).

WATER TEMPERATURES: October 1974 to September 1981 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 522 micromhos July 22, 1980; minimum daily, 39 micromhos May 19, 1980.

WATER TEMPERATURES: Maximum daily, 36.0°C July 8, 1980; minimum daily, 3.5°C Jan. 19, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 499 micromhos Aug. 21; minimum daily, 82 micromhos June 8.

WATER TEMPERATURES: Maximum daily, 31.0°C July 24; minimum daily, 7.0°C Jan. 14, 19, 24, Feb. 12, 13.

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

| DATE      | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) |
|-----------|------|-------------------------------------------------|---------------------------------------------------|---------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------|
| OCT 22... | 1745 | 697                                             | 97                                                | 6.1           | 20.0                        | 70                                           | 23                           | --                                  | 1.9                                                            | 400                                                            | K59000                                                             | 28                                     |
| NOV 14... | 1300 | 155                                             | 389                                               | 7.2           | 19.0                        | 10                                           | 25                           | 8.2                                 | 4.6                                                            | --                                                             | K10000                                                             | 100                                    |
| DEC 08... | 1400 | 248                                             | 340                                               | 6.9           | 15.5                        | 20                                           | 35                           | 6.2                                 | 1.5                                                            | K480                                                           | K12600                                                             | 95                                     |
| JAN 08... | 1530 | 180                                             | 287                                               | 7.1           | 10.5                        | 50                                           | 32                           | 8.2                                 | 3.0                                                            | 210                                                            | 150                                                                | 84                                     |
| FEB 05... | 1445 | 288                                             | 352                                               | 7.2           | 10.0                        | 50                                           | 22                           | 8.1                                 | .6                                                             | 250                                                            | 370                                                                | 85                                     |
| MAR 05... | 1420 | 236                                             | 417                                               | 6.8           | 21.0                        | 50                                           | 43                           | 4.2                                 | 6.5                                                            | 840                                                            | --                                                                 | 95                                     |
| APR 15... | 1230 | 212                                             | 248                                               | 6.4           | 25.0                        | 100                                          | 75                           | 4.5                                 | 2.7                                                            | K70                                                            | 2300                                                               | 77                                     |
| MAY 06... | 1000 | 870                                             | 426                                               | 7.5           | 24.5                        | 30                                           | 32                           | 4.1                                 | 1.1                                                            | 400                                                            | 1700                                                               | 150                                    |
| JUN 09... | 1345 | 920                                             | 101                                               | 5.9           | 28.5                        | 100                                          | 200                          | 3.8                                 | 3.5                                                            | 350                                                            | 1000                                                               | 31                                     |
| JUL 08... | 1300 | 652                                             | 101                                               | 5.9           | 28.5                        | 100                                          | 140                          | 4.2                                 | 1.4                                                            | 1000                                                           | 5200                                                               | 27                                     |
| AUG 11... | 1245 | 248                                             | 348                                               | 7.5           | 28.5                        | 30                                           | 21                           | 3.5                                 | 5.5                                                            | K550                                                           | 39000                                                              | 110                                    |
| SEP 03... | 1145 | 165                                             | 341                                               | 7.5           | 31.0                        | 30                                           | 74                           | 5.0                                 | 1.7                                                            | K1700                                                          | 1200                                                               | 97                                     |

| DATE      | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>AS CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>FIELD<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RINE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) |
|-----------|-----------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|
| OCT 22... | 0                                                         | 7.1                                          | 2.6                                                  | 5.7                                          | 5.4                                                 | 28                                                | 10                                            | 7.1                                                 | .1                                                 | 2.8                                               | 78                                                                 | 58                                                             |
| NOV 14... | 2                                                         | 23                                           | 12                                                   | 37                                           | 4.2                                                 | 103                                               | 15                                            | 53                                                  | .2                                                 | 15                                                | 218                                                                | 222                                                            |
| DEC 08... | 11                                                        | 24                                           | 8.5                                                  | 26                                           | 3.9                                                 | 84                                                | 17                                            | 39                                                  | .1                                                 | 15                                                | 202                                                                | 184                                                            |
| JAN 08... | 13                                                        | 21                                           | 7.7                                                  | 23                                           | 3.4                                                 | 71                                                | 25                                            | 32                                                  | .2                                                 | 14                                                | 174                                                                | 170                                                            |
| FEB 05... | 1                                                         | 21                                           | 8.0                                                  | 37                                           | 3.3                                                 | 84                                                | 17                                            | 46                                                  | .1                                                 | 16                                                | 205                                                                | 199                                                            |
| MAR 05... | 28                                                        | 22                                           | 9.7                                                  | 45                                           | 4.1                                                 | 67                                                | 31                                            | 69                                                  | .1                                                 | 12                                                | 241                                                                | 233                                                            |
| APR 15... | 10                                                        | 19                                           | 7.2                                                  | 18                                           | 3.2                                                 | 67                                                | 15                                            | 22                                                  | .2                                                 | 11                                                | 162                                                                | 136                                                            |
| MAY 06... | 14                                                        | 35                                           | 14                                                   | 28                                           | 3.7                                                 | 131                                               | 18                                            | 40                                                  | .2                                                 | 12                                                | 261                                                                | 231                                                            |
| JUN 09... | 8                                                         | 7.7                                          | 2.9                                                  | 6.3                                          | 2.8                                                 | 23                                                | 10                                            | 7.8                                                 | .1                                                 | 7.2                                               | 73                                                                 | 60                                                             |
| JUL 08... | 2                                                         | 6.7                                          | 2.4                                                  | 7.6                                          | 3.2                                                 | 25                                                | 4.4                                           | 8.6                                                 | .1                                                 | 6.6                                               | 64                                                                 | 55                                                             |
| AUG 11... | 0                                                         | 26                                           | 11                                                   | 26                                           | 3.7                                                 | 120                                               | 7.4                                           | 33                                                  | .1                                                 | 15                                                | 208                                                                | 194                                                            |
| SEP 03... | 0                                                         | 23                                           | 9.6                                                  | 30                                           | 3.7                                                 | 110                                               | 8.0                                           | 40                                                  | .1                                                 | 15                                                | 202                                                                | 192                                                            |

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

07385700 BAYOU TECHE AT KEYSTONE LOCK, NEAR ST. MARTINVILLE, LA--Continued

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

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>SUS-<br>PENDED<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|
| OCT<br>22... | .15                                                  | .16                                                           | --                                                   | .17                                                           | 1.1                                                                | 1.2                                                                         | .54                                                           | .51                                                  | --                                            | 10                                                     | 1.5                                                             |
| NOV<br>14... | .34                                                  | .35                                                           | .31                                                  | .30                                                           | 1.3                                                                | 1.1                                                                         | .25                                                           | .14                                                  | 7.5                                           | --                                                     | --                                                              |
| DEC<br>08... | .64                                                  | .64                                                           | --                                                   | .09                                                           | 1.4                                                                | 1.5                                                                         | .26                                                           | .18                                                  | 8.2                                           | --                                                     | --                                                              |
| JAN<br>08... | .47                                                  | .46                                                           | .28                                                  | .26                                                           | 1.4                                                                | 1.3                                                                         | .14                                                           | .09                                                  | --                                            | 11                                                     | .4                                                              |
| FEB<br>05... | .23                                                  | .27                                                           | .33                                                  | .37                                                           | 1.3                                                                | 1.3                                                                         | .38                                                           | .32                                                  | 11                                            | --                                                     | --                                                              |
| MAR<br>05... | .50                                                  | .47                                                           | --                                                   | .33                                                           | 1.3                                                                | 1.8                                                                         | .29                                                           | .20                                                  | 13                                            | --                                                     | --                                                              |
| APR<br>15... | .52                                                  | .51                                                           | .23                                                  | .23                                                           | 1.7                                                                | 1.8                                                                         | .36                                                           | .18                                                  | --                                            | 15                                                     | .5                                                              |
| MAY<br>06... | .77                                                  | .74                                                           | .18                                                  | .18                                                           | --                                                                 | 1.1                                                                         | .27                                                           | .16                                                  | 12                                            | --                                                     | --                                                              |
| JUN<br>09... | --                                                   | .75                                                           | --                                                   | .37                                                           | 1.8                                                                | 1.7                                                                         | .53                                                           | .03                                                  | 10                                            | --                                                     | --                                                              |
| JUL<br>08... | .54                                                  | .56                                                           | .23                                                  | .22                                                           | 1.6                                                                | 1.3                                                                         | .37                                                           | .15                                                  | --                                            | 7.7                                                    | 1.2                                                             |
| AUG<br>11... | .27                                                  | .32                                                           | .28                                                  | .32                                                           | 1.1                                                                | .96                                                                         | .23                                                           | .00                                                  | 9.5                                           | --                                                     | --                                                              |
| SEP<br>03... | .18                                                  | .10                                                           | .18                                                  | .18                                                           | 1.5                                                                | 1.1                                                                         | .29                                                           | .14                                                  | 10                                            | --                                                     | --                                                              |

| DATE         | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BA) | BARIIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) |
|--------------|-------------------------------------|----------------------------------------------|----------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|
| OCT<br>22... | 3                                   | 3                                            | 100                                                      | 20                                            | 1                                                       | 3                                            | 0                                                              | 0                                                   | 0                                                       | <3                                           |
| JAN<br>08... | 2                                   | 1                                            | 100                                                      | 90                                            | 0                                                       | 3                                            | --                                                             | 10                                                  | 0                                                       | <3                                           |
| APR<br>15... | 4                                   | 2                                            | 100                                                      | 80                                            | 0                                                       | <1                                           | 20                                                             | 0                                                   | 3                                                       | <3                                           |
| JUL<br>08... | 4                                   | 3                                            | 100                                                      | 100                                           | 1                                                       | <1                                           | 20                                                             | 10                                                  | 3                                                       | <3                                           |

| DATE         | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) |
|--------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|
| OCT<br>22... | 18                                                      | 10                                           | 1200                                                  | 140                                        | 5                                                     | 0                                          | 190                                                             | 130                                                  | .1                                                      |
| JAN<br>08... | 10                                                      | 8                                            | 1400                                                  | 200                                        | 5                                                     | 0                                          | 90                                                              | 70                                                   | .1                                                      |
| APR<br>15... | 17                                                      | 12                                           | 3100                                                  | 100                                        | 5                                                     | 2                                          | 140                                                             | 80                                                   | .1                                                      |
| JUL<br>08... | 23                                                      | 14                                           | 5100                                                  | 110                                        | 5                                                     | 1                                          | 130                                                             | 40                                                   | .1                                                      |

| DATE         | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AG) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| OCT<br>22... | .3                                           | 7                                                       | 0                                            | 0                                          | 0                                                   | 0                                                       | 0                                            | 40                                                    | 20                                         |
| JAN<br>08... | .1                                           | 4                                                       | 2                                            | 0                                          | 0                                                   | 0                                                       | 6                                            | 10                                                    | 7                                          |
| APR<br>15... | .1                                           | 3                                                       | 5                                            | 0                                          | 0                                                   | 0                                                       | 2                                            | 10                                                    | 10                                         |
| JUL<br>08... | .0                                           | 8                                                       | 5                                            | 0                                          | 0                                                   | 0                                                       | 0                                            | 50                                                    | 20                                         |

&lt; Actual value is known to be less than the value shown.



## MISSISSIPPI RIVER DELTA

07385700 BAYOU TECHE AT KEYSTONE LOCK, NEAR ST. MARTINVILLE, LA--Continued

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

| DATE  | PHYTO-<br>PLANK-<br>TON,<br>TOTAL<br>(CELLS<br>PER ML) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDED<br>(T/DAY) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|-------|--------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|
| OCT   |                                                        |                                            |                                                                |                                                               |
| 22... | --                                                     | 62                                         | 117                                                            | 80                                                            |
| NOV   |                                                        |                                            |                                                                |                                                               |
| 14... | 500                                                    | 265                                        | 111                                                            | 88                                                            |
| DEC   |                                                        |                                            |                                                                |                                                               |
| 08... | --                                                     | 98                                         | 66                                                             | 89                                                            |
| JAN   |                                                        |                                            |                                                                |                                                               |
| 08... | --                                                     | 72                                         | 35                                                             | 95                                                            |
| FEB   |                                                        |                                            |                                                                |                                                               |
| 05... | --                                                     | 52                                         | 40                                                             | 99                                                            |
| MAR   |                                                        |                                            |                                                                |                                                               |
| 05... | 1700                                                   | 76                                         | 48                                                             | 98                                                            |
| APR   |                                                        |                                            |                                                                |                                                               |
| 15... | --                                                     | 108                                        | 62                                                             | 90                                                            |
| MAY   |                                                        |                                            |                                                                |                                                               |
| 06... | 210                                                    | 105                                        | 247                                                            | 97                                                            |
| JUN   |                                                        |                                            |                                                                |                                                               |
| 09... | 27                                                     | 180                                        | 447                                                            | 98                                                            |
| JUL   |                                                        |                                            |                                                                |                                                               |
| 08... | 230                                                    | 124                                        | 218                                                            | 89                                                            |
| AUG   |                                                        |                                            |                                                                |                                                               |
| 11... | 260                                                    | 89                                         | 60                                                             | 90                                                            |
| SEP   |                                                        |                                            |                                                                |                                                               |
| 03... | --                                                     | 148                                        | 66                                                             | 100                                                           |

07385700 BAYOU TECHE AT KEYSTONE LOCK, NEAR ST. MARTINVILLE, LA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 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   | 435 | 331 | 172 | 266 | 276 | 227 | 243 | 420 | 289 | 174 | 288 | 348 |
| 2   | 415 | 403 | 187 | 256 | 326 | 235 | 244 | 431 | 195 | 176 | 300 | 355 |
| 3   | 413 | 310 | 266 | --- | 352 | 242 | 209 | 451 | 165 | 200 | 282 | 346 |
| 4   | 440 | 308 | 251 | 252 | 343 | 261 | 190 | 481 | 168 | 185 | 280 | 355 |
| 5   | 467 | 315 | 238 | 251 | --- | 264 | 151 | 477 | 168 | 185 | 284 | 351 |
| 6   | 497 | 349 | 242 | 250 | 263 | 289 | 141 | 447 | 157 | 156 | 285 | 367 |
| 7   | 422 | 365 | 259 | 270 | 137 | 285 | 150 | 247 | 158 | 114 | 252 | 356 |
| 8   | 389 | 356 | 336 | 293 | 142 | 246 | 168 | 131 | 82  | 101 | 317 | 363 |
| 9   | 406 | --- | 324 | 297 | 83  | 193 | 186 | 114 | 101 | 115 | 318 | 386 |
| 10  | 380 | 314 | 238 | --- | 116 | 144 | 200 | 123 | 84  | 89  | 320 | 363 |
| 11  | 351 | --- | 265 | 313 | 104 | 172 | 217 | 124 | 90  | 95  | 342 | 396 |
| 12  | --- | 346 | 223 | --- | 127 | 159 | 234 | 133 | 90  | 106 | 378 | 346 |
| 13  | 382 | 342 | 190 | --- | 131 | 150 | 237 | 153 | 89  | 106 | 385 | 365 |
| 14  | 382 | 390 | 148 | 305 | 140 | 140 | 236 | 172 | 97  | 118 | 407 | 324 |
| 15  | 376 | 394 | 164 | 322 | 139 | 125 | 244 | 180 | 104 | 114 | 405 | 351 |
| 16  | 375 | 386 | 163 | 320 | 144 | 117 | 250 | 181 | 131 | 120 | 336 | 388 |
| 17  | 391 | 386 | 156 | 324 | 127 | 118 | 259 | 177 | 128 | 122 | 353 | 353 |
| 18  | 423 | 386 | --- | 311 | 130 | 136 | 272 | 167 | 129 | 120 | 411 | 318 |
| 19  | 299 | 383 | 162 | 307 | 133 | 148 | 268 | 189 | 127 | 130 | 436 | 233 |
| 20  | 193 | 383 | 171 | --- | 140 | 155 | 260 | 210 | 131 | 146 | 478 | 180 |
| 21  | 127 | 380 | 173 | 320 | 164 | 195 | 266 | 192 | 119 | 161 | 499 | 159 |
| 22  | 93  | --- | 189 | 313 | 167 | 208 | 270 | 222 | 110 | 177 | 493 | 159 |
| 23  | 93  | --- | 211 | --- | 162 | 209 | 282 | 220 | 109 | 175 | 458 | 197 |
| 24  | 101 | 293 | 216 | 338 | 177 | 201 | 304 | 234 | 119 | 186 | 431 | 229 |
| 25  | 163 | 281 | --- | 307 | 184 | 204 | 353 | 243 | 147 | 198 | 420 | 220 |
| 26  | --- | 208 | 243 | 265 | 198 | 215 | 376 | 227 | 132 | 219 | 408 | 252 |
| 27  | 149 | --- | 261 | 266 | 210 | 227 | 384 | 232 | 138 | 222 | 389 | 307 |
| 28  | 147 | 196 | 249 | 233 | 216 | 244 | 381 | 240 | 138 | 239 | 405 | 332 |
| 29  | 191 | 286 | 254 | 239 | --- | 252 | 374 | 262 | 166 | 268 | 418 | 341 |
| 30  | 288 | 190 | 262 | 257 | --- | 260 | 391 | 289 | 171 | 275 | 355 | 333 |
| 31  | 344 | --- | 263 | 264 | --- | 270 | --- | 270 | --- | 288 | 372 | --- |
| MAX | 497 | 403 | 336 | 338 | 352 | 289 | 391 | 481 | 289 | 288 | 499 | 396 |
| MIN | 93  | 190 | 148 | 233 | 83  | 117 | 141 | 114 | 82  | 89  | 252 | 159 |

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   | 24.5 | 15.5 | 12.5 | 9.0  | ---  | 18.0 | 21.5 | 25.0 | 26.0 | 29.0 | 30.0 | 28.5 |
| 2   | 25.0 | 17.0 | 11.5 | 12.0 | 9.5  | 16.0 | 20.0 | 24.0 | 25.5 | 29.0 | 30.0 | 28.0 |
| 3   | 23.0 | 16.0 | 12.0 | ---  | 8.0  | 17.0 | 21.0 | 25.0 | 26.0 | 27.0 | 30.0 | 28.5 |
| 4   | 25.0 | 17.0 | 12.5 | 10.0 | 9.0  | 19.0 | 22.0 | 25.0 | 26.5 | 29.0 | 30.0 | 28.0 |
| 5   | 23.0 | 17.0 | 15.0 | 8.5  | 9.0  | 18.0 | 21.0 | 24.0 | 26.5 | 26.5 | 29.0 | 28.0 |
| 6   | 24.5 | 16.0 | 14.0 | 10.0 | 8.5  | 17.0 | 20.0 | 24.0 | 28.0 | 26.5 | 29.0 | 27.0 |
| 7   | 20.5 | 19.5 | 15.5 | 9.5  | 9.0  | 17.0 | 20.0 | 22.0 | 28.0 | 27.0 | 29.0 | 27.0 |
| 8   | 20.5 | 20.0 | ---  | 8.5  | 9.0  | 16.0 | 21.0 | 20.0 | 27.0 | 27.0 | 29.5 | 28.0 |
| 9   | 24.0 | ---  | ---  | 10.5 | 8.0  | 15.0 | 21.5 | 23.0 | 28.0 | 28.5 | 28.5 | 28.0 |
| 10  | 24.0 | 21.5 | 14.5 | ---  | 11.0 | 16.0 | 24.0 | 22.0 | 28.0 | 28.0 | 29.0 | 26.5 |
| 11  | 26.0 | ---  | 11.5 | 9.0  | 8.0  | 16.0 | 23.0 | 21.0 | 25.5 | 27.5 | 29.0 | 27.5 |
| 12  | ---  | 17.5 | 11.0 | ---  | 7.0  | 17.0 | 24.0 | 21.0 | 26.0 | 28.5 | 29.0 | 27.0 |
| 13  | 22.5 | 17.5 | 11.5 | ---  | 7.0  | 16.0 | 23.0 | 21.5 | 27.0 | 28.0 | 29.0 | 27.0 |
| 14  | 20.0 | 20.0 | 13.0 | 7.0  | 8.0  | 15.0 | 23.5 | 22.5 | 28.0 | 29.0 | 30.0 | 27.5 |
| 15  | 20.5 | 19.0 | 11.5 | 8.0  | 10.0 | 17.0 | 23.0 | 22.0 | 28.0 | 29.5 | 30.0 | 27.5 |
| 16  | 22.5 | 17.5 | 12.5 | 7.5  | ---  | 17.0 | 23.5 | 23.0 | 28.0 | 29.5 | 30.0 | 27.0 |
| 17  | 23.5 | 17.5 | 11.0 | 7.5  | 11.0 | 16.0 | 24.0 | 23.0 | 28.0 | 30.0 | 29.5 | 25.0 |
| 18  | 24.5 | 15.0 | ---  | 9.0  | 11.0 | 18.0 | 24.5 | 24.5 | 29.0 | 29.0 | 30.0 | 23.0 |
| 19  | 22.0 | 13.0 | 15.0 | 7.0  | 11.0 | 15.0 | 24.5 | 25.0 | 29.0 | 30.5 | 28.5 | 23.0 |
| 20  | 20.0 | 12.5 | 10.5 | ---  | 14.0 | 15.0 | 24.5 | 23.0 | 29.0 | 30.0 | 30.0 | 23.0 |
| 21  | 18.5 | 14.5 | 8.5  | 8.0  | 13.5 | 16.0 | 25.0 | 22.0 | 29.0 | 30.0 | 29.0 | 23.5 |
| 22  | 18.0 | ---  | 10.5 | 8.0  | 15.0 | 16.0 | 25.0 | 22.5 | 29.0 | 30.0 | 29.0 | 23.0 |
| 23  | 19.5 | ---  | 10.0 | ---  | 16.0 | 15.0 | 25.0 | 23.0 | 28.5 | 30.0 | 28.5 | 23.5 |
| 24  | 20.0 | 15.0 | 10.0 | 7.0  | 15.0 | 15.0 | 23.5 | 24.0 | 28.0 | 31.0 | 30.0 | 25.0 |
| 25  | 19.5 | 13.0 | ---  | 8.0  | 15.0 | 15.0 | 24.0 | 25.0 | 27.0 | 30.5 | 28.0 | 25.0 |
| 26  | ---  | 12.0 | 8.5  | 10.0 | 17.0 | 15.0 | 23.0 | 24.5 | 28.5 | 30.0 | 28.0 | 25.0 |
| 27  | 21.5 | ---  | 8.5  | 10.0 | 15.0 | 16.5 | 23.0 | 25.0 | 28.0 | 30.0 | 29.0 | 24.5 |
| 28  | 20.0 | 9.0  | 8.0  | 9.5  | 16.0 | 18.0 | 23.5 | 25.5 | 28.5 | 30.0 | 28.5 | 25.0 |
| 29  | 15.0 | 10.0 | 9.0  | 10.0 | ---  | 18.0 | 25.0 | 26.0 | 29.0 | 29.0 | 28.0 | 26.0 |
| 30  | 15.5 | 9.0  | 9.0  | 12.0 | ---  | 19.5 | 25.0 | 26.5 | 28.5 | 30.0 | 27.0 | 25.0 |
| 31  | 15.0 | ---  | 8.5  | 10.0 | ---  | 20.0 | ---  | 27.0 | ---  | 30.0 | 28.0 | ---  |
| MAX | 28.5 | 21.5 | 15.5 | 12.0 | 17.0 | 20.0 | 25.0 | 27.0 | 29.0 | 31.0 | 30.0 | 28.5 |
| MIN | 15.0 | 9.0  | 8.0  | 7.0  | 7.0  | 15.0 | 20.0 | 20.0 | 25.5 | 26.5 | 27.0 | 23.0 |

07385700 BAYOU TECHE AT KEYSTONE LOCK, NEAR ST. MARTINVILLE, LA--Continued

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

| DATE<br>TIME        | NOV 14,80<br>1300 | MAR 5,81<br>1420 | MAY 6,81<br>1000 | JUN 9,81<br>1345 | JUL 8,81<br>1300 | AUG 11,81<br>1245 |
|---------------------|-------------------|------------------|------------------|------------------|------------------|-------------------|
| TOTAL CELLS/ML      | 500               | 1700             | 210              | 27               | 230              | 260               |
| DIVERSITY: DIVISION | 0.6               | 0.1              | 1.3              | 0.0              | 1.2              | 1.5               |
| ..CLASS             | 0.6               | 0.1              | 1.3              | 0.0              | 1.2              | 1.5               |
| ..ORDER             | 1.5               | 0.1              | 2.0              | 0.0              | 1.3              | 1.8               |
| ..FAMILY            | 2.0               | 0.1              | 2.6              | 0.0              | 1.3              | 2.0               |
| ....GENUS           | 2.2               | 0.1              | 2.6              | 0.0              | 1.3              | 2.0               |

| ORGANISM                      | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| CHLOROPHYTA (GREEN ALGAE)     |              |              |              |              |              |              |              |              |              |              |              |              |
| ..CHLOROPHYCEAE               |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHLOROCOCCALES             |              |              |              |              |              |              |              |              |              |              |              |              |
| ....OOCYSTACEAE               |              |              |              |              |              |              |              |              |              |              |              |              |
| ...ANKISTROMOESMUS            | --           | =            | --           | -            | --           | =            | 27#100       | --           | -            | --           | -            |              |
| ...SCENEDSMACEAE              |              |              |              |              |              |              |              |              |              |              |              |              |
| ...SCENEDSMUS                 | --           | -            | --           | -            | 52#          | 25           | --           | -            | 27           | 12           | --           | -            |
| ...VOLVOCALES                 |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHLAMYDOMONADACEAE         |              |              |              |              |              |              |              |              |              |              |              |              |
| ....CHLAMYDOMONAS             | 26           | 5            | --           | -            | 39#          | 19           | --           | -            | 14           | 6            | 14           | 6            |
| CHRYSOPHYTA                   |              |              |              |              |              |              |              |              |              |              |              |              |
| ..BACILLARIOPHYCEAE           |              |              |              |              |              |              |              |              |              |              |              |              |
| ..CENTRALES                   |              |              |              |              |              |              |              |              |              |              |              |              |
| ...COSCINOIDISCEAE            |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CYCLOTELLA                 | --           | -            | --           | -            | 13           | 6            | --           | -            | --           | -            | --           | -            |
| ...MELOSIRA                   | 260#         | 51           | --           | -            | --           | -            | --           | -            | --           | -            | 29           | 11           |
| ...PENNIALES                  |              |              |              |              |              |              |              |              |              |              |              |              |
| ...FRAGILIACEAE               |              |              |              |              |              |              |              |              |              |              |              |              |
| ...FRAGILARIA                 | 26           | 5            | --           | -            | --           | -            | --           | -            | --           | -            | --           | -            |
| ...GOMPHONEMACEAE             |              |              |              |              |              |              |              |              |              |              |              |              |
| ...GOMPHONEMA                 | --           | -            | --           | -            | 13           | 6            | --           | -            | --           | -            | --           | -            |
| ...NAVICULACEAE               |              |              |              |              |              |              |              |              |              |              |              |              |
| ...GYROSIGMA                  | 26           | 5            | --           | -            | --           | -            | --           | -            | --           | -            | --           | -            |
| ...NAVICULA                   | 52           | 10           | --           | -            | 39#          | 19           | --           | -            | --           | -            | 14           | 6            |
| ...NITZSCHACEAE               |              |              |              |              |              |              |              |              |              |              |              |              |
| ....NITZSCHIA                 | 90#          | 18           | --           | -            | 39#          | 19           | --           | -            | 27           | 12           | 57#          | 22           |
| CRYPTOPHYTA (CRYPTOMONADS)    |              |              |              |              |              |              |              |              |              |              |              |              |
| ..CRYPTOPHYCEAE               |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CRYPTOMONADALES            |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CRYPTOMONADACEAE           |              |              |              |              |              |              |              |              |              |              |              |              |
| ....CRYPTOMONAS               | --           | -            | 13           | 1            | --           | -            | --           | -            | --           | -            | --           | -            |
| CYANOPHYTA (BLUE-GREEN ALGAE) |              |              |              |              |              |              |              |              |              |              |              |              |
| ..CYANOPHYCEAE                |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHROCOCCALES               |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHROCOCCACEAE              |              |              |              |              |              |              |              |              |              |              |              |              |
| ....AGMENELLUM                | --           | -            | 1600#        | 99           | --           | -            | --           | -            | --           | -            | --           | -            |
| ....ANACYSTIS                 | 26           | 5            | --           | -            | --           | -            | --           | -            | --           | -            | 130#         | 50           |
| ...HORMOGONALES               |              |              |              |              |              |              |              |              |              |              |              |              |
| ...OSCILLATORIACEAE           |              |              |              |              |              |              |              |              |              |              |              |              |
| ....OSCILLATORIA              | --           | -            | --           | -            | --           | -            | --           | -            | 160#         | 71           | --           | -            |
| EUGLENOPHYTA (EUGLENIDS)      |              |              |              |              |              |              |              |              |              |              |              |              |
| ..EUGLENOPHYCEAE              |              |              |              |              |              |              |              |              |              |              |              |              |
| ...EUGLENALES                 |              |              |              |              |              |              |              |              |              |              |              |              |
| ...EUGLENACEAE                |              |              |              |              |              |              |              |              |              |              |              |              |
| ....EUGLENA                   | --           | -            | --           | -            | 13           | 6            | --           | -            | --           | -            | 14           | 6            |

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

\* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

## 179

LOCATION.--Lat 30°14'35", long 91°53'05", in NEL/4NW1/4 lot 95, T. 9 S., R. 6 E., St. Martin Parish, Hydrologic Unit 08080103, near center of span on downstream side of bridge on State Highway 31, 1,200 ft (370 m) above control structure, 1,500 ft (460 m) downstream from point of diversion from Bayou Teche, 0.4 mi (0.6 km) northwest of Ruth, and 2.2 mi (3.5 km) south of town of Breaux Bridge.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Auxiliary water-stage recorder 150 ft (46 m) below control structure at same datum. Since July 12, 1973, water-stage recorder for Ruth Canal at Ruth (station 07386705) used as auxiliary gage for this station. Nov. 4, 1965, to July 11, 1973, auxiliary nonrecording gage at same site and datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 802 ft<sup>3</sup>/s (22.7 m<sup>3</sup>/s) Apr. 21, 1966; maximum daily reverse flow, 13 ft<sup>3</sup>/s (0.37 m<sup>3</sup>/s) May 28, 1980 (backwater from Vermilion River); minimum daily (unaffected by backwater), 2.6 ft<sup>3</sup>/s (0.074 m<sup>3</sup>/s) Oct. 5, Nov. 15, 1980, and Aug. 30, 1981.

| DAY         | OCT   | NOV      | DEC   | JAN   | FEB  | MAR   | APR  | MAY  | JUN   | JUL    | AUG   | SEP   |
|-------------|-------|----------|-------|-------|------|-------|------|------|-------|--------|-------|-------|
| 1           | 80    | 7.0      | 13    | 4.0   | 118  | 69    | 134  | 124  | 139   | 127    | 5.1   | 2.8   |
| 2           | 82    | 6.8      | 11    | 3.9   | 121  | 69    | 141  | 122  | 140   | 116    | 5.1   | 3.1   |
| 3           | 85    | 6.6      | 10    | 4.0   | 126  | 89    | 141  | 118  | 137   | 92     | 5.0   | 3.6   |
| 4           | 44    | 6.2      | 9.2   | 3.5   | 126  | 117   | 136  | 92   | 136   | 109    | 4.9   | 4.6   |
| 5           | 2.6   | 5.9      | 8.5   | 3.8   | 91   | 122   | 138  | 98   | 56    | 117    | 5.0   | 5.5   |
| 6           | 3.5   | 5.4      | 8.0   | 4.0   | 30   | 142   | 143  | 117  | 19    | 113    | 5.2   | 5.9   |
| 7           | 3.5   | 5.0      | 7.7   | 3.9   | 29   | 142   | 138  | 124  | 22    | 111    | 5.4   | 6.0   |
| 8           | 3.5   | 4.8      | 7.6   | 3.8   | 24   | 128   | 135  | 124  | 21    | 110    | 5.2   | 5.6   |
| 9           | 3.5   | 4.5      | 11    | 3.6   | 19   | 187   | 133  | 130  | 16    | 119    | 5.6   | 5.1   |
| 10          | 3.6   | 4.0      | 18    | 3.5   | 16   | 226   | 132  | 122  | 25    | 127    | 6.0   | 5.1   |
| 11          | 4.0   | 3.6      | 18    | 3.5   | 18   | 219   | 128  | 126  | 34    | 125    | 6.0   | 5.2   |
| 12          | 4.0   | 3.4      | 16    | 3.5   | 18   | 212   | 128  | 134  | 32    | 127    | 5.4   | 5.8   |
| 13          | 4.1   | 3.1      | 14    | 3.8   | 15   | 224   | 127  | 137  | 27    | 131    | 5.0   | 6.0   |
| 14          | 4.1   | 3.1      | 13    | 3.6   | 43   | 241   | 127  | 140  | 24    | 135    | 4.9   | 6.4   |
| 15          | 4.1   | 2.6      | 12    | 3.4   | 72   | 240   | 127  | 143  | 22    | 137    | 4.4   | 7.2   |
| 16          | 4.0   | 2.8      | 12    | 3.1   | 71   | 237   | 126  | 132  | 20    | 139    | 4.0   | 7.8   |
| 17          | 4.1   | 7.5      | 11    | 3.1   | 71   | 232   | 123  | 131  | 20    | 138    | 4.1   | 9.4   |
| 18          | 17    | 3.6      | 11    | 3.1   | 70   | 227   | 123  | 135  | 20    | 136    | 4.0   | 10    |
| 19          | 30    | 3.8      | 10    | 3.5   | 70   | 227   | 123  | 136  | 20    | 134    | 3.9   | 10    |
| 20          | 26    | 4.0      | 9.4   | 4.4   | 72   | 227   | 123  | 143  | 20    | 134    | 3.9   | 9.5   |
| 21          | 23    | 4.9      | 8.8   | 5.0   | 73   | 222   | 123  | 138  | 19    | 61     | 3.9   | 8.8   |
| 22          | 21    | 7.2      | 8.5   | 5.5   | 72   | 216   | 121  | 133  | 19    | 9.1    | 4.0   | 8.0   |
| 23          | 16    | 17       | 8.3   | 6.0   | 73   | 218   | 118  | 132  | 19    | 8.6    | 3.9   | 7.6   |
| 24          | 13    | 11       | 7.4   | 6.4   | 73   | 200   | 120  | 128  | 19    | 8.2    | 3.8   | 7.3   |
| 25          | 11    | 8.6      | 6.7   | 6.7   | 72   | 192   | 121  | 126  | 18    | 7.6    | 3.2   | 7.1   |
| 26          | 9.6   | 23       | 6.5   | 6.8   | 71   | 193   | 119  | 129  | 98    | 7.4    | 2.9   | 7.0   |
| 27          | 8.9   | 22       | 6.0   | 6.6   | 70   | 207   | 121  | 137  | 130   | 6.6    | 2.9   | 6.5   |
| 28          | 7.6   | 18       | 5.6   | 6.4   | 69   | 214   | 122  | 142  | 131   | 6.0    | 2.6   | 6.8   |
| 29          | 7.2   | 16       | 5.4   | 130   | ---  | 210   | 124  | 143  | 130   | 5.5    | 2.8   | 6.2   |
| 30          | 6.7   | 14       | 4.6   | 144   | ---  | 211   | 124  | 142  | 129   | 5.1    | 2.6   | 5.2   |
| 31          | 7.0   | ---      | 4.4   | 121   | ---  | 196   | ---  | 142  | ---   | 5.2    | 2.9   | ---   |
| TOTAL       | 543.6 | 235.4    | 302.6 | 517.4 | 1793 | 5856  | 3839 | 4020 | 1662  | 2607.3 | 133.6 | 195.1 |
| MEAN        | 17.5  | 7.95     | 9.76  | 16.7  | 64.0 | 189   | 128  | 130  | 55.4  | 84.1   | 4.31  | 6.50  |
| MAX         | 85    | 23       | 18    | 144   | 126  | 241   | 143  | 143  | 140   | 139    | 6.0   | 10    |
| MIN         | 2.6   | 2.6      | 4.4   | 3.1   | 15   | 69    | 118  | 92   | 16    | 5.1    | 2.6   | 2.8   |
| AC=FT       | 1080  | 467      | 600   | 1030  | 3560 | 11620 | 7610 | 7970 | 3300  | 5170   | 265   | 387   |
| CAL YR 1980 | TOTAL | 20210.60 | MEAN  | 55.2  | MAX  | 255   | MIN  | -13  | AC=FT | 40090  |       |       |
| WTR YR 1981 | TOTAL | 21705.00 | MEAN  | 59.5  | MAX  | 241   | MIN  | 2.6  | AC=FT | 4      |       |       |

## MISSISSIPPI RIVER DELTA

07386700 RUTH CANAL NEAR RUTH, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN  | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP  |
|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|------|------|
| 1    | 9.13  | 9.56  | 10.06 | 9.32 | 9.15  | 9.47  | 9.98  | 9.22  | 10.37 | 9.73  | 9.41 | 9.22 |
| 2    | 9.11  | 9.55  | 9.92  | 9.31 | 9.15  | 9.42  | 10.26 | 9.21  | 10.45 | 9.79  | 9.41 | 9.24 |
| 3    | 9.10  | 9.53  | 9.82  | 9.32 | 9.22  | 9.36  | 10.38 | 9.28  | 10.38 | 10.25 | 9.40 | 9.29 |
| 4    | 9.14  | 9.50  | 9.75  | 9.28 | 9.35  | 9.31  | 10.39 | 9.40  | 10.41 | 10.44 | 9.39 | 9.37 |
| 5    | 9.25  | 9.47  | 9.70  | 9.30 | 9.75  | 9.45  | 10.26 | 10.25 | 10.78 | 10.64 | 9.40 | 9.44 |
| 6    | 9.28  | 9.43  | 9.65  | 9.32 | 11.80 | 10.18 | 10.17 | 11.21 | 11.59 | 10.80 | 9.42 | 9.47 |
| 7    | 9.28  | 9.41  | 9.62  | 9.31 | 11.60 | 10.35 | 10.10 | 11.33 | 11.86 | 10.55 | 9.43 | 9.48 |
| 8    | 9.28  | 9.38  | 9.61  | 9.30 | 11.11 | 10.18 | 10.04 | 11.08 | 11.78 | 10.49 | 9.42 | 9.45 |
| 9    | 9.28  | 9.36  | 9.91  | 9.29 | 10.55 | 9.98  | 9.93  | 10.73 | 11.36 | 10.48 | 9.45 | 9.41 |
| 10   | 9.29  | 9.32  | 10.53 | 9.28 | 10.33 | 10.07 | 9.82  | 10.47 | 11.40 | 10.47 | 9.48 | 9.41 |
| 11   | 9.32  | 9.29  | 10.48 | 9.28 | 10.50 | 10.14 | 9.71  | 10.25 | 12.48 | 10.59 | 9.48 | 9.42 |
| 12   | 9.32  | 9.27  | 10.29 | 9.28 | 10.51 | 10.10 | 9.60  | 10.30 | 12.05 | 10.44 | 9.43 | 9.46 |
| 13   | 9.33  | 9.25  | 10.15 | 9.29 | 10.24 | 10.06 | 9.51  | 10.39 | 11.46 | 10.36 | 9.40 | 9.48 |
| 14   | 9.33  | 9.25  | 10.03 | 9.29 | 10.07 | 9.97  | 9.44  | 10.35 | 11.10 | 10.34 | 9.39 | 9.51 |
| 15   | 9.33  | 9.21  | 10.00 | 9.27 | 9.96  | 9.92  | 9.38  | 10.28 | 10.81 | 10.30 | 9.35 | 9.58 |
| 16   | 9.32  | 9.22  | 9.96  | 9.25 | 9.89  | 9.80  | 9.35  | 10.29 | 10.71 | 10.22 | 9.32 | 9.63 |
| 17   | 9.33  | 9.35  | 9.93  | 9.25 | 9.81  | 9.73  | 9.32  | 10.29 | 10.71 | 10.11 | 9.33 | 9.76 |
| 18   | 10.43 | 9.31  | 9.92  | 9.25 | 9.76  | 9.63  | 9.29  | 10.28 | 10.67 | 9.98  | 9.32 | 9.84 |
| 19   | 11.76 | 9.28  | 9.84  | 9.28 | 9.71  | 9.50  | 9.28  | 10.23 | 10.65 | 9.83  | 9.31 | 9.83 |
| 20   | 11.28 | 9.32  | 9.76  | 9.35 | 9.71  | 9.40  | 9.23  | 10.16 | 10.63 | 9.71  | 9.31 | 9.77 |
| 21   | 11.08 | 9.39  | 9.71  | 9.40 | 9.72  | 9.33  | 9.17  | 10.07 | 10.61 | 9.69  | 9.31 | 9.71 |
| 22   | 10.78 | 9.57  | 9.69  | 9.44 | 9.69  | 9.21  | 9.15  | 9.97  | 10.58 | 9.74  | 9.32 | 9.65 |
| 23   | 10.33 | 10.43 | 9.67  | 9.48 | 9.66  | 9.07  | 9.16  | 9.85  | 10.58 | 9.70  | 9.31 | 9.61 |
| 24   | 10.05 | 9.93  | 9.60  | 9.52 | 9.63  | 9.09  | 9.15  | 9.72  | 10.55 | 9.66  | 9.30 | 9.59 |
| 25   | 9.88  | 9.70  | 9.53  | 9.55 | 9.59  | 9.14  | 9.13  | 9.61  | 10.52 | 9.02  | 9.26 | 9.57 |
| 26   | 9.78  | 10.94 | 9.52  | 9.55 | 9.55  | 9.12  | 9.16  | 9.53  | 10.54 | 8.60  | 9.23 | 9.56 |
| 27   | 9.72  | 10.91 | 9.48  | 9.53 | 9.53  | 9.06  | 9.21  | 9.86  | 10.17 | 9.02  | 9.23 | 9.52 |
| 28   | 9.61  | 10.53 | 9.45  | 9.51 | 9.50  | 9.03  | 9.25  | 10.29 | 10.01 | 9.48  | 9.21 | 9.46 |
| 29   | 9.58  | 10.29 | 9.43  | 9.28 | ---   | 9.07  | 9.26  | 10.41 | 9.90  | 9.44  | 9.22 | 9.43 |
| 30   | 9.55  | 10.18 | 9.37  | 9.03 | ---   | 9.06  | 9.24  | 10.40 | 9.80  | 9.41  | 9.21 | 9.42 |
| 31   | 9.56  | ---   | 9.35  | 9.08 | ---   | 9.29  | ---   | 10.39 | ---   | 9.42  | 9.23 | ---  |
| MEAN | 9.70  | 9.64  | 9.80  | 9.33 | 9.97  | 9.56  | 9.58  | 10.16 | 10.83 | 9.96  | 9.34 | 9.52 |
| MAX  | 11.76 | 10.94 | 10.53 | 9.55 | 11.80 | 10.35 | 10.39 | 11.33 | 12.48 | 10.80 | 9.48 | 9.84 |
| MIN  | 9.10  | 9.21  | 9.35  | 9.03 | 9.15  | 9.03  | 9.13  | 9.21  | 9.80  | 8.60  | 9.21 | 9.22 |

## 07386705 RUTH CANAL AT RUTH, LA

LOCATION.--Lat 30°14'34", long 91°53'05", NW1/4NE1/4 lot 95, T. 9 S., R. 6 E., St. Martin Parish, Hydrologic Unit 08080103, on right bank 150 ft (46 m) downstream from control structure, 0.5 mi (0.8 km) northwest of Ruth, 0.6 mi (1.0 km) downstream from point of diversion from Bayou Teche, and 2.5 mi (4.0 km) south of town of Breaux Bridge.

PERIOD OF RECORD.--October 1979 to current year (elevations only). Unpublished records, August 1959 to September 1979, available in files of Baton Rouge district office. Daily elevations from January 1938 to December 1944 and since January 1946, in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Nov. 4, 1965 to July 11, 1973, nonrecording gage at same site and datum.

REMARKS.--Total flow through control structure diverted from Bayou Teche. Diversions are for irrigation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation since January 1938, 18.5 ft (5.64 m) Aug. 1940.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 13.12 ft (3.999 m) May 21; minimum daily, 0.96 ft (0.293 m) Feb 26, Aug 21-24, 1980.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
INSTANTANEOUS OBSERVATIONS AT 0800

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 2.93 | 1.02 | 4.41 | 1.21 | 2.88 | 1.96 | 3.05 | 2.20 | 3.30 | 3.07 | 1.52 | 2.04 |
| 2    | 2.00 | 1.21 | 3.62 | .35  | 2.40 | 1.84 | 2.71 | 2.23 | 3.38 | 3.01 | 1.34 | 2.12 |
| 3    | 1.56 | 1.19 | 2.88 | 1.10 | 2.06 | 1.97 | 2.93 | 3.10 | 3.50 | 7.24 | 1.31 | 1.98 |
| 4    | 1.27 | 1.09 | 2.53 | 1.53 | 2.31 | 3.35 | 3.71 | 3.38 | 3.57 | 6.33 | 1.47 | 1.91 |
| 5    | 1.28 | .57  | 2.30 | 1.21 | 2.38 | 3.09 | 3.25 | 7.38 | 5.81 | 5.88 | 1.68 | 1.84 |
| 6    | 1.42 | 1.03 | 2.31 | 1.43 | 8.10 | 2.43 | 2.39 | 7.13 | 7.38 | 6.76 | 1.85 | 1.58 |
| 7    | .80  | 1.33 | 2.39 | 1.44 | 7.91 | 2.80 | 2.53 | 6.75 | 7.00 | 6.31 | 3.48 | 1.55 |
| 8    | 1.14 | 1.78 | 2.41 | 1.30 | 7.73 | 3.00 | 2.85 | 6.36 | 6.80 | 6.50 | 2.32 | 1.41 |
| 9    | 1.19 | 2.10 | 2.60 | 1.38 | 7.49 | 2.70 | 2.80 | 5.78 | 6.18 | 5.79 | 1.25 | 1.05 |
| 10   | 1.33 | 1.82 | 5.98 | 1.44 | 6.92 | 2.52 | 2.79 | 5.48 | 7.34 | 4.76 | 1.19 | 1.07 |
| 11   | 1.43 | 1.67 | 5.17 | 1.57 | 6.09 | 3.00 | 2.93 | 4.48 | 9.34 | 5.33 | 1.06 | 1.40 |
| 12   | 1.09 | 1.82 | 3.81 | .34  | 4.84 | 3.35 | 2.69 | 3.72 | 9.26 | 4.67 | 1.12 | 1.80 |
| 13   | 1.47 | 2.28 | 2.81 | .99  | 3.85 | 3.53 | 2.62 | 3.47 | 9.25 | 4.04 | 1.24 | 1.61 |
| 14   | 1.46 | 3.04 | 2.09 | 1.40 | 3.04 | 3.78 | 2.58 | 3.35 | 9.20 | 3.71 | 1.56 | 1.62 |
| 15   | 1.68 | 2.60 | 1.82 | 1.40 | 2.94 | 3.68 | 2.36 | 2.73 | 8.93 | 3.29 | 1.43 | 1.85 |
| 16   | 1.80 | 1.29 | 1.82 | 1.13 | 2.84 | 3.78 | 2.31 | 3.92 | 8.28 | 2.95 | 1.34 | 1.74 |
| 17   | 2.01 | 3.16 | 1.04 | .34  | 2.59 | 3.72 | 2.32 | 3.99 | 7.78 | 2.75 | 1.32 | 1.40 |
| 18   | 2.05 | 1.88 | 1.82 | .36  | 2.39 | 3.89 | 2.45 | 3.76 | 6.96 | 2.66 | 1.21 | 1.05 |
| 19   | 7.61 | 1.03 | 2.13 | .50  | 2.34 | 3.68 | 2.46 | 3.32 | 6.12 | 2.50 | 1.24 | 1.41 |
| 20   | 7.34 | 1.00 | 1.02 | 1.25 | 2.10 | 3.49 | 2.28 | 2.38 | 5.30 | 2.31 | 1.08 | 1.67 |
| 21   | 7.30 | .56  | .98  | .37  | 1.93 | 3.61 | 2.09 | 2.62 | 4.60 | 2.19 | 1.39 | 1.97 |
| 22   | 6.93 | 1.26 | 1.18 | .74  | 2.14 | 3.79 | 2.10 | 2.95 | 4.06 | 1.21 | 1.36 | 1.63 |
| 23   | 6.18 | 6.19 | 1.71 | .76  | 1.61 | 3.50 | 2.46 | 2.93 | 3.62 | 1.31 | 1.61 | 1.06 |
| 24   | 5.07 | 5.71 | 2.14 | .99  | 1.55 | 3.02 | 2.55 | 2.89 | 4.06 | 1.37 | 1.77 | 1.05 |
| 25   | 3.65 | 4.20 | 1.80 | 1.24 | 1.60 | 2.94 | 2.32 | 3.00 | 3.54 | 2.48 | 1.63 | 1.05 |
| 26   | 2.56 | 7.47 | 1.71 | 1.57 | 1.83 | 2.86 | 2.68 | 2.55 | 3.72 | 2.35 | 1.51 | 1.19 |
| 27   | 2.75 | 7.85 | 1.58 | 1.59 | 2.02 | 3.02 | 2.66 | 2.28 | 3.82 | 2.33 | 1.92 | 1.56 |
| 28   | 2.70 | 7.48 | 1.01 | 1.32 | 2.05 | 3.55 | 2.59 | 2.73 | 3.24 | 2.04 | 1.95 | 1.64 |
| 29   | 1.34 | 6.80 | 1.11 | 1.82 | ---  | 3.87 | 2.30 | 2.95 | 3.04 | 1.64 | 2.02 | 1.64 |
| 30   | .35  | 5.54 | .47  | 3.06 | ---  | 4.07 | 2.20 | 2.94 | 2.97 | 1.33 | 1.99 | 1.58 |
| 31   | .73  | ---  | .50  | 2.17 | ---  | 3.67 | ---  | 2.96 | ---  | 2.02 | 2.11 | ---  |
| MEAN | 2.66 | 2.87 | 2.23 | 1.20 | 3.50 | 3.21 | 2.60 | 3.73 | 5.71 | 3.55 | 1.59 | 1.55 |
| MAX  | 7.61 | 7.85 | 5.98 | 3.06 | 8.10 | 4.07 | 3.71 | 7.38 | 9.34 | 7.24 | 3.48 | 2.12 |
| MIN  | .35  | .56  | .47  | .34  | 1.55 | 1.84 | 2.09 | 2.20 | 2.97 | 1.21 | 1.06 | 1.05 |



## MISSISSIPPI RIVER DELTA

07386880 VERMILION RIVER AT SURREY STREET, AT LAFAYETTE, LA

LOCATION.--Lat 30°13'02", long 91°59'34", on line between lots 76 and 142, T. 9 S., R. 5 E., Lafayette Parish, Hydrologic Unit 08080103, at bridge on Surrey Street at Lafayette, 0.6 mi (1.0 km) north of Lafayette Airport, and 1.4 mi (2.3 km) upstream from Coulee des Poches.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1.53 ft (0.466 m) below mean low Gulf level or 2.31 ft (0.704 m) below National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Water-stage recorder for Vermilion River at State Highway 3073, near Lafayette (station 07386935) used as auxiliary gage for this station.

REMARKS.--Records fair above 1,000 ft<sup>3</sup>/s (28 m<sup>3</sup>/s) and poor below. Discharges are affected by tide at all stages; diversions above and below station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY   | OCT      | NOV     | DEC  | JAN | FEB | MAR | APR    | MAY   | JUN   | JUL   | AUG    | SEP  |
|-------|----------|---------|------|-----|-----|-----|--------|-------|-------|-------|--------|------|
| 1     | 529      | 42      | 1200 | --- | --- | 200 | 433    | 118   | 401   | 319   | 64     | -14  |
| 2     | 191      | 45      | 909  | --- | --- | 155 | 323    | 16    | 441   | 409   | 43     | 51   |
| 3     | 140      | 16      | 740  | --- | --- | 18  | 254    | -159  | 454   | 1110  | 23     | 2.0  |
| 4     | -52      | 71      | 438  | --- | --- | 81  | 273    | -152  | 376   | 1500  | -7.0   | 1.0  |
| 5     | 78       | 33      | 285  | --- | --- | 485 | 581    | -186  | 260   | 1440  | 51     | 5.0  |
| 6     | -38      | 1.0     | 246  | --- | --- | 396 | 360    | 1220  | 892   | 1360  | 129    | -32  |
| 7     | -22      | 14      | 87   | --- | --- | 346 | 172    | 1730  | 1760  | 1190  | 444    | -1.0 |
| 8     | -13      | -29     | 6.0  | --- | --- | 406 | 258    | 1720  | 1870  | 1490  | 384    | 8.0  |
| 9     | -10      | -24     | 242  | --- | --- | 379 | 231    | 1490  | 1770  | 1470  | 167    | -37  |
| 10    | -13      | 62      | 1340 | --- | --- | 305 | 177    | 1370  | 1530  | 1190  | 85     | -15  |
| 11    | 15       | -18     | 1330 | --- | --- | 409 | 153    | 1260  | -1950 | 1140  | 89     | -82  |
| 12    | .00      | -69     | 953  | --- | --- | 416 | 216    | 896   | 855   | 1000  | 47     | 19   |
| 13    | -16      | -199    | 648  | --- | --- | 496 | 165    | 589   | 2430  | 889   | 5.0    | 10   |
| 14    | -48      | -44     | 454  | --- | --- | 534 | 125    | 606   | 2860  | 790   | 103    | 25   |
| 15    | -45      | 49      | 208  | 45  | --- | 481 | 175    | 496   | 2770  | 661   | 92     | 107  |
| 16    | -63      | -161    | 238  | 79  | --- | 590 | 83     | 216   | 2560  | 535   | 47     | 130  |
| 17    | -96      | 139     | 129  | 77  | --- | --- | 32     | 329   | 2310  | 433   | 61     | ---  |
| 18    | -510     | 451     | 29   | 28  | --- | --- | 101    | 405   | 2020  | 370   | 47     | ---  |
| 19    | 682      | 30      | 146  | 34  | --- | --- | 104    | 504   | 1730  | 312   | 76     | ---  |
| 20    | 2040     | 41      | 238  | 71  | --- | --- | 155    | 507   | 1460  | 263   | 18     | ---  |
| 21    | 2060     | 63      | 57   | 211 | --- | --- | 101    | 181   | 1200  | 205   | -5.0   | ---  |
| 22    | 1940     | -44     | 21   | 65  | --- | --- | 1.0    | 155   | 997   | 134   | 18     | ---  |
| 23    | 1720     | 533     | 10   | 81  | --- | --- | 49     | 232   | 1010  | 105   | -29    | ---  |
| 24    | 1370     | 1390    | 104  | 48  | --- | --- | 220    | 164   | 959   | 69    | -75    | ---  |
| 25    | 1020     | 1070    | 197  | --- | --- | --- | 9.0    | 94    | 798   | 29    | -61    | ---  |
| 26    | 606      | -418    | 71   | --- | 232 | --- | 79     | 254   | 860   | 101   | -54    | ---  |
| 27    | 271      | 1540    | 87   | --- | 242 | --- | 127    | 199   | 765   | 182   | -28    | ---  |
| 28    | 379      | 2170    | 13   | --- | 252 | --- | 118    | 246   | 566   | 238   | -34    | ---  |
| 29    | 423      | 1950    | 48   | --- | --- | --- | 135    | 315   | 416   | 180   | -45    | ---  |
| 30    | 170      | 1580    | ---  | --- | --- | --- | 159    | 321   | 261   | 79    | -62    | ---  |
| 31    | 52       | ---     | ---  | --- | --- | --- | ---    | 318   | ---   | 121   | -18    | ---  |
| TOTAL | 12760.00 | 10284.0 | ---  | --- | --- | --- | 5369.0 | 15454 | 34631 | 19314 | 1575.0 | ---  |
| MEAN  | 412      | 343     | ---  | --- | --- | --- | 179    | 499   | 1154  | 623   | 50.8   | ---  |
| MAX   | 2060     | 2170    | ---  | --- | --- | --- | 581    | 1730  | 2860  | 1500  | 444    | ---  |
| MIN   | -510     | -418    | ---  | --- | --- | --- | 1.0    | -186  | -1950 | 29    | -75    | ---  |

NOTE: No gage height at base or auxiliary gage, Dec. 30 to Jan. 14, Jan. 25 to Feb. 25, Mar. 17-31, Sept. 17-30.

07386880 VERMILION RIVER AT SURREY STREET, AT LAFAYETTE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN   | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1    | 4.21 | 2.97 | 6.00 | ---  | 4.31 | 3.58 | 4.39 | 3.66 | 4.77  | 4.80 | 3.73 | 4.35 |
| 2    | 3.89 | 3.18 | 5.31 | ---  | 3.23 | 3.27 | 4.07 | 3.49 | 4.82  | 6.02 | 3.56 | 4.27 |
| 3    | 3.13 | 3.26 | 4.55 | ---  | 2.51 | 3.64 | 4.61 | 4.54 | 5.03  | 8.49 | 3.60 | 4.11 |
| 4    | 3.22 | 3.14 | 4.35 | ---  | 3.44 | 4.96 | 5.39 | 5.08 | 5.08  | 7.65 | 3.76 | 3.85 |
| 5    | 3.30 | 2.74 | 4.16 | ---  | 4.04 | 4.38 | 4.41 | 8.55 | 6.98  | 7.59 | 3.83 | 3.60 |
| 6    | 2.86 | 3.12 | 4.09 | ---  | 9.48 | 3.47 | 3.52 | 8.44 | 8.81  | 8.09 | 4.62 | 3.75 |
| 7    | 3.08 | 3.37 | 4.18 | ---  | 8.80 | 4.17 | 4.17 | 7.82 | 8.03  | 7.98 | 5.20 | 3.66 |
| 8    | 3.34 | 3.66 | 4.27 | ---  | 8.58 | 4.30 | 4.53 | 7.52 | 7.93  | 7.85 | 4.11 | 3.55 |
| 9    | 3.31 | 3.87 | 5.16 | ---  | 8.40 | 3.79 | 4.37 | 7.12 | 7.56  | 7.05 | 3.53 | 3.41 |
| 10   | 3.35 | 3.46 | 6.98 | ---  | 8.06 | 3.67 | 4.35 | 6.82 | 7.89  | 6.36 | 3.60 | 3.72 |
| 11   | 3.20 | 3.39 | 6.21 | ---  | 7.33 | 3.81 | 4.54 | 6.02 | 11.54 | 6.75 | 3.68 | 4.10 |
| 12   | 2.82 | 3.63 | 5.26 | ---  | 6.18 | 4.04 | 4.19 | 5.33 | 11.38 | 6.14 | 3.70 | 4.20 |
| 13   | 3.11 | 4.33 | 4.43 | ---  | 5.38 | 4.32 | 4.09 | 5.08 | 10.90 | 5.58 | 3.88 | 3.99 |
| 14   | 3.41 | 4.81 | 3.75 | ---  | 4.70 | 4.31 | 3.99 | 4.89 | 10.50 | 5.18 | 3.97 | 4.03 |
| 15   | 3.70 | 4.16 | 3.59 | 3.00 | 4.34 | 4.27 | 3.72 | 4.16 | 10.08 | 4.75 | 3.76 | 4.15 |
| 16   | 3.90 | 3.71 | 3.48 | 2.75 | 4.32 | 4.02 | 3.76 | 4.99 | 9.58  | 4.44 | 3.69 | 3.68 |
| 17   | 4.23 | 4.81 | 2.96 | 1.89 | 4.05 | 3.92 | 4.10 | 5.70 | 8.95  | 4.22 | 3.55 | ---  |
| 18   | 7.26 | 3.39 | 3.64 | 2.02 | 3.90 | 4.43 | 4.25 | 5.42 | 8.19  | 4.11 | 3.34 | ---  |
| 19   | 9.44 | 2.62 | 3.77 | 2.58 | 3.82 | 3.33 | 4.25 | 4.93 | 7.50  | 3.92 | 3.26 | ---  |
| 20   | 8.50 | 2.85 | 2.57 | 3.19 | 3.54 | 2.95 | 3.90 | 3.90 | 6.77  | 3.75 | 3.09 | ---  |
| 21   | 8.24 | 2.63 | 2.20 | 2.38 | 3.51 | 4.15 | 3.59 | 3.76 | 6.17  | 3.51 | 3.22 | ---  |
| 22   | 7.94 | 3.38 | 3.00 | 2.65 | 3.66 | 4.18 | 3.80 | 4.32 | 5.71  | 3.19 | 3.47 | ---  |
| 23   | 7.36 | 7.57 | 3.60 | 2.71 | 2.82 | 2.91 | 4.41 | 4.53 | 5.66  | 3.23 | 3.88 | ---  |
| 24   | 6.44 | 6.94 | 3.62 | 2.82 | 2.85 | 2.84 | 4.06 | 4.46 | 5.63  | 3.54 | 4.09 | ---  |
| 25   | 5.10 | 5.69 | 1.82 | 3.27 | 3.12 | 3.27 | 3.96 | 4.52 | 5.22  | 4.72 | 4.12 | ---  |
| 26   | 4.42 | 8.91 | 2.52 | 3.40 | 3.44 | 3.10 | 4.37 | 4.44 | 5.33  | 4.85 | 4.15 | ---  |
| 27   | 4.73 | 9.24 | 3.09 | 3.49 | 3.65 | 3.89 | 4.30 | 3.83 | 5.18  | 4.59 | 4.48 | ---  |
| 28   | 4.41 | 8.64 | 2.72 | 3.30 | 3.72 | 4.55 | 4.19 | 4.10 | 4.76  | 4.41 | 4.37 | ---  |
| 29   | 3.01 | 7.95 | 2.75 | 3.82 | ---  | 5.25 | 4.00 | 4.45 | 4.62  | 3.90 | 4.37 | ---  |
| 30   | 2.10 | 6.95 | ---  | 3.63 | ---  | 5.09 | 3.64 | 4.57 | 4.78  | 3.78 | 4.43 | ---  |
| 31   | 2.36 | ---  | ---  | 3.07 | ---  | 4.39 | ---  | 4.73 | ---   | 4.11 | 4.36 | ---  |
| MEAN | 4.50 | 4.61 | ---  | ---  | 4.83 | 3.94 | 4.16 | 5.20 | 7.18  | 5.31 | 3.88 | ---  |
| MAX  | 9.44 | 9.24 | 6.98 | ---  | 9.48 | 5.25 | 5.39 | 8.55 | 11.54 | 8.49 | 5.20 | ---  |
| MIN  | 2.10 | 2.62 | 1.82 | ---  | 2.51 | 2.84 | 3.52 | 3.49 | 4.62  | 3.19 | 3.09 | ---  |

## 07386935 VERMILION RIVER AT STATE HIGHWAY 3073, NEAR LAFAYETTE, LA

LOCATION.--Lat 30°09'45", Long 92°03'20", between lots 68 and 69, T. 10 S., R. 4 E., Lafayette Parish, Hydrologic Unit 08080103, at bridge on State Highway 3073, 4.1 mi (6.6 km) downstream from Coulee Mine, 4.8 mi (7.7 km) southwest of Central School at Lafayette, and 7.8 mi (12.6 km) downstream from gaging station Vermilion River at Surrey Street, at Lafayette (station 07386880).

DRAINAGE AREA.--Indeterminate.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year (gage height only). Unpublished records October 1967 to September 1975 available in files of Baton Rouge district office.

GAGE.--Water-stage recorder. Datum of gage is 1.54 ft (0.469 m) below mean low Gulf level, or 2.32 ft (0.707 m) below National Geodetic Vertical Datum of 1929.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 17.90 ft (5.456 m) May 16, 1980; minimum, not determined.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 6, 1972, reached a stage of 15.63 ft (4.764 m).

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 13.08 ft (3.987 m) June 11, minimum not determined.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
INSTANTANEOUS OBSERVATIONS AT 0800

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN   | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1    | 3.73 | 3.31 | 4.98 | 3.40 | ---  | 3.59 | 4.55 | 3.74 | 4.35  | 4.21 | 3.43 | 4.16 |
| 2    | 4.06 | 3.55 | 4.76 | 2.84 | ---  | 3.46 | 4.04 | 3.32 | 3.98  | 4.06 | 3.31 | 4.23 |
| 3    | 3.42 | 3.52 | 3.89 | 3.34 | ---  | 3.80 | 4.48 | 4.42 | 4.44  | 8.38 | 3.35 | 4.16 |
| 4    | 2.93 | 3.53 | 4.30 | 3.76 | ---  | 5.33 | 5.69 | 4.68 | 4.58  | 6.59 | 3.53 | 4.03 |
| 5    | 3.43 | 2.73 | 4.22 | 2.55 | ---  | 3.51 | 4.26 | 8.93 | 4.97  | 6.36 | 3.74 | 4.08 |
| 6    | 2.65 | 3.32 | 4.17 | 3.82 | ---  | 2.94 | 2.78 | 8.22 | 8.97  | 7.73 | 3.79 | 3.96 |
| 7    | 2.89 | 3.75 | 4.54 | 3.52 | ---  | 3.86 | 3.51 | 6.62 | 6.83  | 7.45 | 5.27 | 3.90 |
| 8    | 3.46 | 4.09 | 4.70 | 3.10 | ---  | 4.06 | 4.07 | 5.96 | 6.48  | 7.19 | 4.16 | 3.79 |
| 9    | 3.30 | 4.42 | 4.95 | 3.64 | ---  | 3.52 | 4.12 | 5.84 | 5.94  | 6.05 | 3.39 | 3.32 |
| 10   | 3.45 | 3.91 | 6.35 | 3.63 | ---  | 3.29 | 4.25 | 5.99 | 5.73  | 5.09 | 3.58 | 3.45 |
| 11   | 3.55 | 3.94 | 4.89 | 2.71 | ---  | 3.39 | 4.56 | 4.60 | 11.02 | 6.25 | 3.44 | 3.87 |
| 12   | 3.16 | 4.19 | 4.60 | 1.95 | ---  | 3.55 | 4.20 | 4.51 | 11.56 | 5.43 | 3.48 | 3.95 |
| 13   | 3.60 | 4.76 | 4.20 | 2.74 | ---  | 3.99 | 4.29 | 4.76 | 10.17 | 4.74 | 3.64 | 3.68 |
| 14   | 3.90 | 5.41 | 3.69 | ---  | ---  | 4.02 | 4.35 | 4.75 | 9.01  | 4.40 | 3.50 | 3.77 |
| 15   | 4.12 | 4.83 | 3.75 | 3.35 | ---  | 3.98 | 3.84 | 3.67 | 8.31  | 3.98 | 3.39 | 3.84 |
| 16   | 4.22 | 3.75 | 3.75 | 3.21 | ---  | 3.73 | 3.76 | 4.43 | 8.31  | 3.71 | 3.37 | 3.72 |
| 17   | 4.45 | 5.33 | 3.17 | 2.26 | ---  | 3.73 | 4.12 | 5.61 | 7.22  | 3.60 | 3.37 | 3.32 |
| 18   | 4.44 | 3.23 | 4.03 | 2.43 | ---  | ---  | 4.24 | 5.06 | 6.36  | 3.59 | 3.30 | 2.79 |
| 19   | 9.78 | 2.68 | 4.29 | 3.13 | ---  | ---  | 4.08 | 4.54 | 5.98  | 3.51 | 3.35 | 3.61 |
| 20   | 7.11 | 3.14 | 2.72 | 3.71 | ---  | ---  | 3.56 | 3.46 | 5.34  | 3.45 | 3.19 | 3.92 |
| 21   | 6.22 | 2.93 | 2.53 | 2.39 | ---  | ---  | 3.19 | 3.05 | 4.91  | 3.40 | 3.56 | 4.26 |
| 22   | 6.04 | 3.55 | 3.45 | 2.84 | ---  | ---  | 3.34 | 3.77 | 4.68  | 3.23 | 3.49 | 3.90 |
| 23   | 5.74 | 7.84 | 4.06 | 2.90 | ---  | ---  | 3.96 | 4.19 | 4.52  | 3.36 | 4.00 | 3.41 |
| 24   | 5.30 | 6.15 | 4.22 | 3.00 | ---  | ---  | 3.84 | 4.23 | 4.72  | 3.51 | 4.10 | 3.13 |
| 25   | 4.01 | 4.94 | 1.80 | 3.33 | ---  | ---  | 3.64 | 4.24 | 4.63  | 4.73 | 4.08 | 2.83 |
| 26   | 3.93 | 9.44 | 2.76 | 3.67 | 3.26 | ---  | 4.23 | 4.46 | 4.67  | 4.67 | 3.93 | 3.40 |
| 27   | 4.89 | 8.93 | 3.60 | ---  | 3.51 | ---  | 4.34 | 3.67 | 4.72  | 4.51 | 4.14 | 3.67 |
| 28   | 4.69 | 7.01 | 2.96 | ---  | 3.59 | ---  | 4.29 | 4.03 | 4.31  | 4.12 | 4.01 | 3.77 |
| 29   | 2.81 | 6.03 | 3.11 | ---  | ---  | ---  | 4.20 | 4.48 | 4.10  | 3.42 | 4.06 | 3.76 |
| 30   | 2.09 | 5.54 | 2.78 | ---  | ---  | ---  | 3.78 | 4.40 | 4.27  | 3.18 | 4.18 | 3.79 |
| 31   | 2.36 | ---  | 2.94 | ---  | ---  | ---  | ---  | 4.39 | ---   | 3.96 | 4.19 | ---  |
| MEAN | 4.18 | 4.66 | 3.88 | ---  | ---  | ---  | 4.05 | 4.77 | 6.17  | 4.77 | 3.72 | 3.72 |
| MAX  | 9.78 | 9.44 | 6.35 | ---  | ---  | ---  | 5.69 | 8.93 | 11.56 | 8.38 | 5.27 | 4.26 |
| MIN  | 2.04 | 2.68 | 1.80 | ---  | ---  | ---  | 2.78 | 3.05 | 3.98  | 3.18 | 3.19 | 2.79 |

07386935 VERMILION RIVER AT STATE HIGHWAY 3073, NEAR LAFAYETTE, LA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to current year.

## PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1971 to September 1981 (discontinued).

pH: October 1976 to September 1981 (discontinued).

WATER TEMPERATURES: October 1970 to September 1981 (discontinued).

DISSOLVED OXYGEN: November 1970 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor October 1970 to September 1981 (discontinued).

REMARKS.--Upper limit of dissolved oxygen sensor, 15.0 mg/L.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,140 micromhos Sept. 25, 1972; minimum, 20 micromhos Sept. 6, 1973, Feb. 6, 1976.

pH: Maximum, 8.1 units July 30, 1980; minimum, 5.5 units May 17, 18, 1980.

WATER TEMPERATURES: Maximum, 35.5°C June 27, 28, 1973; minimum 3.5°C Jan. 12, Feb. 11, 1973.

DISSOLVED OXYGEN: Maximum, 15.0 mg/L Sept. 11, 12, 22, 1972; minimum, 0.0 mg/L on several days during summer months in 1973-75, 1977-81.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 780 micromhos Apr. 28; minimum, 38 micromhos June 11.

pH: Maximum, 7.7 units Oct. 15; minimum, 5.7 units June 12, July 4.

WATER TEMPERATURES: Maximum, 33.5°C July 20, Aug. 18; minimum, 6.5°C Dec. 25.

DISSOLVED OXYGEN: Maximum, 10.8 mg/L Sept. 11, 13; minimum, 0.0 mg/L Aug. 18-20.

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

| DATE  | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COHALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) |
|-------|------|---------------------------------------------------|---------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |
| 22... | 1545 | 132                                               | 6.4           | 20.5                        | 70                                           | 40                           | 1.8                                 | 5.7                                                            | 4200                                                           |
| NOV   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |
| 14... | 1130 | 523                                               | 7.1           | 19.0                        | 30                                           | 25                           | 2.9                                 | --                                                             | 480                                                            |
| DEC   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |
| 08... | 1245 | 290                                               | 6.5           | 16.0                        | 60                                           | 30                           | 2.6                                 | 3.0                                                            | 880                                                            |
| JAN   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |
| 08... | 1215 | 654                                               | 6.6           | 12.0                        | 40                                           | 45                           | 1.9                                 | 7.3                                                            | K36000                                                         |
| FEB   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |
| 05... | 1215 | 462                                               | 7.1           | 11.0                        | 40                                           | 45                           | 6.5                                 | 2.4                                                            | 5800                                                           |
| MAR   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |
| 05... | 1315 | 490                                               | 6.9           | 20.0                        | 50                                           | 50                           | 1.9                                 | 5.3                                                            | K15000                                                         |
| APR   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |
| 15... | 1145 | 436                                               | 6.5           | 25.0                        | 70                                           | 45                           | 1.0                                 | 8.3                                                            | K12000                                                         |
| MAY   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |
| 07... | 1000 | 116                                               | 6.5           | 22.5                        | 70                                           | 120                          | 3.7                                 | 3.7                                                            | 6600                                                           |
| JUN   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |
| 09... | 1200 | 145                                               | 5.9           | 28.0                        | 100                                          | 150                          | 2.8                                 | 2.4                                                            | K20000                                                         |
| JUL   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |
| 02... | 1530 | 315                                               | 6.2           | 28.0                        | 70                                           | 70                           | 3.3                                 | 4.1                                                            | K3800                                                          |
| AUG   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |
| 11... | 1130 | 240                                               | 6.6           | 28.0                        | 50                                           | 35                           | 1.0                                 | 4.0                                                            | 1400                                                           |
| SEP   |      |                                                   |               |                             |                                              |                              |                                     |                                                                |                                                                |
| 03... | 1100 | 682                                               | 7.8           | 29.5                        | 20                                           | 20                           | 2.9                                 | 8.1                                                            | 520                                                            |

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

## MISSISSIPPI RIVER DELTA

07386935 VERMILION RIVER AT STATE HIGHWAY 3073, NEAR LAFAYETTE, LA--Continued

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

| DATE         | STREP-<br>TODOCOI<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>AS<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>FIELD<br>AS<br>CACO3) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) |
|--------------|----------------------------------------------------------|----------------------------------------|--------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------|-----------------------------------------------|
| OCT<br>22... | K2400                                                    | 39                                     | 2                                                            | 9.7                                          | 3.5                                                  | 8.6                                          | 5.9                                                 | 37                                     | 8.6                                           |
| NOV<br>14... | 620                                                      | 98                                     | 0                                                            | 25                                           | 8.7                                                  | 59                                           | 5.7                                                 | 102                                    | 40                                            |
| DEC<br>08... | 270                                                      | 61                                     | 13                                                           | 16                                           | 5.1                                                  | 35                                           | 3.8                                                 | 48                                     | 20                                            |
| JAN<br>08... | --                                                       | 110                                    | 5                                                            | 27                                           | 9.2                                                  | 80                                           | 4.9                                                 | 100                                    | 42                                            |
| FEB<br>05... | K3200                                                    | 99                                     | 5                                                            | 25                                           | 8.8                                                  | 56                                           | 3.2                                                 | 94                                     | 29                                            |
| MAR<br>05... | --                                                       | 88                                     | 9                                                            | 23                                           | 7.3                                                  | 60                                           | 3.5                                                 | 79                                     | 28                                            |
| APR<br>15... | K620                                                     | 91                                     | 17                                                           | 23                                           | 8.2                                                  | 53                                           | 3.8                                                 | 74                                     | 27                                            |
| MAY<br>07... | 20000                                                    | 26                                     | 0                                                            | 7.1                                          | 2.1                                                  | 9.4                                          | 3.9                                                 | 26                                     | 6.0                                           |
| JUN<br>09... | 3000                                                     | 35                                     | 8                                                            | 9.4                                          | 2.8                                                  | 13                                           | 11                                                  | 27                                     | 20                                            |
| JUL<br>02... | 18000                                                    | 61                                     | 11                                                           | 16                                           | 5.1                                                  | 37                                           | 3.6                                                 | 50                                     | 11                                            |
| AUG<br>11... | 1400                                                     | 48                                     | 0                                                            | 13                                           | 3.8                                                  | 24                                           | 5.1                                                 | 51                                     | 13                                            |
| SEP<br>03... | 450                                                      | 110                                    | 0                                                            | 27                                           | 9.6                                                  | 95                                           | 7.1                                                 | 114                                    | 31                                            |

| DATE         | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) |
|--------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|
| OCT<br>22... | 12                                                  | .1                                                 | 6.7                                               | 100                                                                | 77                                                             | .08                                                  | 1.5                                                                 | .70                                         |
| NOV<br>14... | 67                                                  | .2                                                 | 22                                                | 312                                                                | 289                                                            | .52                                                  | 2.8                                                                 | .62                                         |
| DEC<br>08... | 47                                                  | .1                                                 | 15                                                | 186                                                                | 171                                                            | .30                                                  | 2.1                                                                 | .62                                         |
| JAN<br>08... | 110                                                 | .3                                                 | 22                                                | 351                                                                | 355                                                            | 1.1                                                  | 3.7                                                                 | 1.7                                         |
| FEB<br>05... | 67                                                  | .1                                                 | 18                                                | 262                                                                | 263                                                            | .60                                                  | 2.1                                                                 | .91                                         |
| MAR<br>05... | 88                                                  | .1                                                 | 14                                                | 272                                                                | 271                                                            | .84                                                  | 2.8                                                                 | 1.2                                         |
| APR<br>15... | 69                                                  | .2                                                 | 14                                                | 282                                                                | 242                                                            | .81                                                  | 2.2                                                                 | .85                                         |
| MAY<br>07... | 12                                                  | .1                                                 | 4.5                                               | 82                                                                 | 61                                                             | .56                                                  | 2.0                                                                 | .52                                         |
| JUN<br>09... | 15                                                  | .1                                                 | 7.5                                               | 96                                                                 | 88                                                             | .00                                                  | 1.4                                                                 | 1.0                                         |
| JUL<br>02... | 56                                                  | .1                                                 | 12                                                | 187                                                                | 171                                                            | .56                                                  | 1.9                                                                 | .66                                         |
| AUG<br>11... | 33                                                  | .1                                                 | 10                                                | 147                                                                | 133                                                            | .54                                                  | 1.7                                                                 | .75                                         |
| SEP<br>03... | 120                                                 | .5                                                 | 24                                                | 392                                                                | 382                                                            | .73                                                  | 4.3                                                                 | 1.9                                         |

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

07386935 VERMILION RIVER AT STATE HIGHWAY 3073, NEAR LAFAYETTE, LA--Continued

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

| DATE         | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | ARSENIC<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BARIUM,<br>REC'D<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS BA) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CADMIUM<br>REC'D<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CD) | CHRO-<br>MIUM,<br>REC'D<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | CHRO-<br>MIUM,<br>HEXA-<br>VALENT,<br>DIS-<br>(UG/L<br>AS CR) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) |
|--------------|----------------------------------------------|---------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------|
| OCT<br>22... | 3                                            | 1                                                                   | --                                           | 150                                                                 | <1                                           | 2                                                                   | 35                                                                | 0                                                             | 6                                            |
| NOV<br>18... | --                                           | 3                                                                   | 100                                          | 200                                                                 | --                                           | 1                                                                   | 37                                                                | --                                                            | --                                           |
| JAN<br>08... | 3                                            | --                                                                  | --                                           | --                                                                  | 2                                            | --                                                                  | --                                                                | 0                                                             | 5                                            |
| APR<br>15... | 3                                            | --                                                                  | --                                           | --                                                                  | <1                                           | --                                                                  | --                                                                | 0                                                             | 7                                            |
| JUL<br>02... | 3                                            | --                                                                  | --                                           | --                                                                  | 1                                            | --                                                                  | --                                                                | 0                                                             | 5                                            |
| SEP<br>03... | --                                           | --                                                                  | --                                           | --                                                                  | --                                           | --                                                                  | --                                                                | --                                                            | --                                           |

| DATE         | COPPER,<br>REC'D<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | IRON,<br>REC'D<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | LEAD,<br>REC'D<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS PB) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>REC'D<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>REC'D<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS HG) |
|--------------|---------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------|
| OCT<br>22... | 20                                                                  | 220                                        | 3400                                                              | 2                                          | 40                                                                | 230                                                  | 360                                                                | .1                                                      | .09                                                                 |
| NOV<br>18... | 18                                                                  | --                                         | 6700                                                              | --                                         | 40                                                                | --                                                   | 260                                                                | --                                                      | .08                                                                 |
| JAN<br>08... | --                                                                  | 60                                         | --                                                                | 0                                          | --                                                                | 260                                                  | --                                                                 | .1                                                      | --                                                                  |
| APR<br>15... | --                                                                  | 60                                         | --                                                                | 0                                          | --                                                                | 130                                                  | --                                                                 | .1                                                      | --                                                                  |
| JUL<br>02... | --                                                                  | 210                                        | --                                                                | 2                                          | --                                                                | 250                                                  | --                                                                 | .2                                                      | --                                                                  |
| SEP<br>03... | --                                                                  | 20                                         | --                                                                | --                                         | --                                                                | 290                                                  | --                                                                 | --                                                      | --                                                                  |

| DATE         | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | ZINC,<br>REC'D<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS ZN) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CYANIDE<br>TOTAL<br>(MG/L<br>AS CN) | PHENOLS<br>(UG/L) | PCR,<br>TOTAL<br>(UG/L) | PCR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR,<br>TOTAL<br>(UG/L) | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|--------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------|-------------------------------------|-------------------|-------------------------|----------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------|
| OCT<br>22... | 10                                         | 100                                                               | 12                                            | .00                                 | 10                | .0                      | 25                                                       | .0                                                            | .0                                                       |
| NOV<br>18... | --                                         | 103                                                               | --                                            | --                                  | --                | --                      | --                                                       | --                                                            | --                                                       |
| JAN<br>08... | 40                                         | --                                                                | --                                            | --                                  | --                | --                      | --                                                       | --                                                            | --                                                       |
| APR<br>15... | 7                                          | --                                                                | 11                                            | --                                  | --                | <.1                     | --                                                       | <.1                                                           | --                                                       |
| JUL<br>02... | 9                                          | --                                                                | 14                                            | --                                  | --                | --                      | --                                                       | --                                                            | --                                                       |
| SEP<br>03... | --                                         | --                                                                | --                                            | --                                  | --                | --                      | --                                                       | --                                                            | --                                                       |

&lt; Actual value is known to be less than the value shown.



## MISSISSIPPI RIVER DELTA

07386935 VERMILION RIVER AT STATE HIGHWAY 3073, NEAR LAFAYETTE, LA--Continued

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

| DATE         | ALDRIN,<br>TOTAL<br>(UG/L) | ALDRIN,<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L) | CHLOR-<br>DANE,<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDD,<br>TOTAL<br>(UG/L) | DDD,<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDE,<br>TOTAL<br>(UG/L) | DDE,<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDT,<br>TOTAL<br>(UG/L) | DDT,<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DI-<br>AZINON,<br>TOTAL<br>(UG/L) | DI-<br>AZINON,<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|----------------------------|----------------------------------------------------|------------------------------------|------------------------------------------------------------|-------------------------|-------------------------------------------------|-------------------------|-------------------------------------------------|-------------------------|-------------------------------------------------|-----------------------------------|-----------------------------------------------------------|
| OCT<br>22... | .00                        | .0                                                 | .0                                 | .89                                                        | .00                     | .39                                             | .00                     | .12                                             | .00                     | 6.2                                             | .04                               | .7                                                        |
| APR<br>15... | <.01                       | --                                                 | <.1                                | --                                                         | <.01                    | --                                              | <.01                    | --                                              | <.01                    | --                                              | .08                               | --                                                        |

| DATE         | DI-<br>FLORIN,<br>TOTAL<br>(UG/L) | DI-<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) | ENDO-<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDOIN,<br>TOTAL<br>(UG/L) | ENDOIN,<br>TOM MA-<br>TERIAL<br>(UG/KG) | ETHION,<br>TOTAL<br>(UG/L) | ETHION,<br>TOM MA-<br>TERIAL<br>(UG/KG) | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATERIAL<br>(UG/KG) |    |
|--------------|-----------------------------------|------------------------------------------------|-------------------------------------|--------------------------------------------------|----------------------------|-----------------------------------------|----------------------------|-----------------------------------------|-------------------------------------|---------------------------------------------------|------------------------------------------------------------------------|----|
|              | DI-<br>FLORIN<br>TOTAL<br>(UG/L)  | DI-<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) | ENDO-<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDOIN,<br>TOTAL<br>(UG/L) | ENDOIN,<br>TOM MA-<br>TERIAL<br>(UG/KG) | ETHION,<br>TOTAL<br>(UG/L) | ETHION,<br>TOM MA-<br>TERIAL<br>(UG/KG) | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATERIAL<br>(UG/KG) |    |
| OCT<br>22... | .00                               | .8                                             | .00                                 | .0                                               | .00                        | .0                                      | .00                        | .0                                      | .00                                 | .0                                                | .00                                                                    | .3 |
| APR<br>15... | <.01                              | --                                             | <.01                                | --                                               | <.01                       | --                                      | <.01                       | --                                      | <.01                                | --                                                | <.01                                                                   | -- |

| DATE         | LINDANE<br>TOTAL<br>(UG/L) | LINDANE<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | MALATHION,<br>TOTAL<br>(UG/L) | MALATHION,<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | METH-<br>CHLOR,<br>TOTAL<br>(UG/L) | METH-<br>CHLOR,<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L) | METHYL<br>PARA-<br>THION,<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L) | METHYL<br>TRI-<br>THION,<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | MIREX,<br>TOTAL<br>(UG/L) | MIREX,<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|----------------------------|----------------------------------------------------|-------------------------------|-------------------------------------------------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------|---------------------------|---------------------------------------------------|
| OCT<br>22... | .00                        | .0                                                 | .00                           | .0                                                    | .00                                | .0                                                         | .00                                          | .0                                                                   | .00                                         | .0                                                                  | .00                       | .0                                                |
| APR<br>15... | <.01                       | --                                                 | <.01                          | --                                                    | <.01                               | --                                                         | <.01                                         | --                                                                   | <.01                                        | --                                                                  | <.01                      | --                                                |

| DATE         | PARA-<br>THION,<br>TOTAL<br>(UG/L) | PARA-<br>THION,<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | PER-<br>THANE,<br>TOTAL<br>(UG/L) | PER-<br>THANE,<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOX-<br>APHENE,<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | TRI-<br>THION,<br>TOTAL<br>(UG/L) | TRI-<br>THION,<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | 2,4-D,<br>TOTAL<br>(UG/L) | 2,4-D,<br>IN ROT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) |
|--------------|------------------------------------|------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------|------------------------------------|------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------|---------------------------|---------------------------------------------------|----------------------------|----------------------------|
| OCT<br>22... | .00                                | 1.6                                                        | .00                               | .0                                                        | .0                                 | .0                                                         | .00                               | .0                                                        | .21                       | .00                                               | .02                        | .00                        |
| APR<br>15... | <.01                               | --                                                         | <.01                              | --                                                        | <.1                                | --                                                         | <.01                              | --                                                        | .13                       | <.01                                              | .06                        | <.01                       |

&lt; Actual value is known to be less than the value shown.

07386935 VERMILION RIVER AT STATE HIGHWAY 3073, NEAR LAFAYETTE, LA--Continued

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 |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-------|-----|
|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH |     |
| 1     | ---     | --- | 306      | 277 |          |     |         |     | ---      | --- | ---   | --- |
| 2     | 331     | 246 | 312      | 292 |          |     |         |     | ---      | --- | ---   | --- |
| 3     | 329     | 256 | 328      | 315 |          |     |         |     | ---      | --- | ---   | --- |
| 4     | 335     | 240 | 321      | 311 |          |     |         |     | ---      | --- | ---   | --- |
| 5     | 366     | 294 | 359      | 298 |          |     |         |     | ---      | --- | ---   | --- |
| 6     | 379     | 359 | 423      | 388 |          |     |         |     | ---      | --- | ---   | --- |
| 7     | 377     | 356 | ---      | --- |          |     |         |     | ---      | --- | ---   | --- |
| 8     | 383     | 356 | ---      | --- |          |     |         |     | ---      | --- | ---   | --- |
| 9     | 391     | 357 | ---      | --- |          |     |         |     | 108      | 74  | ---   | --- |
| 10    | 414     | 362 | ---      | --- |          |     |         |     | 159      | 109 | 218   | 199 |
| 11    | 442     | 371 | ---      | --- |          |     |         |     | 181      | 146 | 239   | 212 |
| 12    | 426     | 410 | ---      | --- |          |     |         |     | 194      | 145 | 239   | 199 |
| 13    | 421     | 403 | ---      | --- |          |     |         |     | 188      | 145 | 349   | 181 |
| 14    | 433     | 403 | ---      | --- |          |     |         |     | 158      | 139 | 268   | 198 |
| 15    | 432     | 406 | ---      | --- |          |     |         |     | 164      | 156 | 212   | 192 |
| 16    | 427     | 405 | ---      | --- |          |     |         |     | 222      | 159 | 205   | 196 |
| 17    | 430     | 412 | ---      | --- |          |     |         |     | 245      | 222 | 240   | 194 |
| 18    | 426     | 100 | ---      | --- |          |     |         |     | ---      | --- | 216   | 196 |
| 19    | 116     | 86  | ---      | --- |          |     |         |     | ---      | --- | 287   | 203 |
| 20    | 113     | 101 | ---      | --- |          |     |         |     | ---      | --- | 332   | 216 |
| 21    | 134     | 105 | ---      | --- |          |     |         |     | ---      | --- | 228   | 211 |
| 22    | 126     | 114 | ---      | --- |          |     |         |     | ---      | --- | 237   | 203 |
| 23    | 146     | 128 | ---      | --- |          |     |         |     | ---      | --- | 306   | 224 |
| 24    | 188     | 170 | ---      | --- |          |     |         |     | ---      | --- | 307   | 273 |
| 25    | 235     | 164 | ---      | --- |          |     |         |     | ---      | --- | 327   | 255 |
| 26    | 188     | 167 | ---      | --- |          |     |         |     | ---      | --- | 322   | 237 |
| 27    | 192     | 167 | ---      | --- |          |     |         |     | ---      | --- | 311   | 253 |
| 28    | 204     | 159 | ---      | --- |          |     |         |     | ---      | --- | ---   | --- |
| 29    | 339     | 198 | ---      | --- |          |     |         |     | ---      | --- | ---   | --- |
| 30    | 310     | 267 | ---      | --- |          |     |         |     | ---      | --- | ---   | --- |
| 31    | 306     | 269 | ---      | --- |          |     |         |     | ---      | --- | ---   | --- |
| MONTH | 442     | 86  | ---      | --- |          |     |         |     | ---      | --- | ---   | --- |

| DAY   | MAX   | MIN | MAX | MIN | MAX  | MIN | MAX  | MIN | MAX    | MIN | MAX       | MIN |
|-------|-------|-----|-----|-----|------|-----|------|-----|--------|-----|-----------|-----|
|       | APRIL |     | MAY |     | JUNE |     | JULY |     | AUGUST |     | SEPTEMBER |     |
| 1     | ---   | --- | 634 | 522 | 515  | 449 | 362  | 330 | ---    | --- | ---       | --- |
| 2     | ---   | --- | 584 | 525 | 521  | 390 | 367  | 106 | ---    | --- | ---       | --- |
| 3     | ---   | --- | 581 | 525 | 416  | 350 | ---  | --- | ---    | --- | ---       | --- |
| 4     | 511   | 265 | 566 | 499 | 470  | 327 | ---  | --- | ---    | --- | ---       | --- |
| 5     | 277   | 227 | 525 | 67  | 376  | 154 | ---  | --- | 518    | 436 | ---       | --- |
| 6     | 239   | 213 | 474 | 64  | 256  | 76  | ---  | --- | 471    | 144 | ---       | --- |
| 7     | 240   | 221 | 117 | 100 | 133  | 106 | ---  | --- | 391    | 136 | ---       | --- |
| 8     | 268   | 219 | 131 | 106 | 149  | 119 | ---  | --- | ---    | --- | ---       | --- |
| 9     | 306   | 246 | 181 | 129 | 172  | 142 | 172  | 146 | ---    | --- | ---       | --- |
| 10    | 314   | 277 | 269 | 185 | 174  | 99  | 200  | 148 | ---    | --- | ---       | --- |
| 11    | 422   | 272 | 345 | 226 | 94   | 38  | 262  | 153 | ---    | --- | ---       | --- |
| 12    | 354   | 317 | 339 | 320 | 71   | 43  | 366  | 173 | ---    | --- | ---       | --- |
| 13    | 371   | 308 | 336 | 325 | 120  | 45  | 258  | 164 | ---    | --- | ---       | --- |
| 14    | 437   | 351 | 346 | 305 | 119  | 109 | 251  | 184 | ---    | --- | ---       | --- |
| 15    | 474   | 348 | 359 | 284 | 142  | 119 | 271  | 231 | ---    | --- | ---       | --- |
| 16    | 463   | 352 | 308 | 245 | 169  | 143 | 297  | 234 | ---    | --- | ---       | --- |
| 17    | 432   | 371 | 316 | 177 | 182  | 170 | 273  | 194 | ---    | --- | 644       | 530 |
| 18    | 475   | 384 | 371 | 247 | 203  | 179 | 326  | 278 | ---    | --- | 526       | 438 |
| 19    | 513   | 451 | 318 | 269 | 181  | 172 | 363  | 274 | ---    | --- | 507       | 431 |
| 20    | 502   | 414 | 336 | 281 | 189  | 173 | 333  | 273 | ---    | --- | 569       | 445 |
| 21    | 504   | 449 | 378 | 285 | 198  | 181 | 427  | 355 | ---    | --- | 568       | 461 |
| 22    | 491   | 472 | 341 | 286 | 203  | 164 | 439  | 366 | ---    | --- | 559       | 503 |
| 23    | 518   | 433 | 536 | 364 | 321  | 174 | 500  | 430 | ---    | --- | 534       | 441 |
| 24    | 468   | 401 | 483 | 406 | 271  | 119 | 503  | 413 | ---    | --- | 421       | 346 |
| 25    | 427   | 377 | 477 | 460 | 257  | 185 | 493  | 362 | ---    | --- | 378       | 354 |
| 26    | 413   | 381 | 541 | 451 | 331  | 170 | 545  | 394 | ---    | --- | 384       | 367 |
| 27    | 550   | 379 | 562 | 411 | 338  | 221 | ---  | --- | ---    | --- | 392       | 373 |
| 28    | 780   | 534 | 635 | 453 | 296  | 254 | ---  | --- | ---    | --- | 422       | 382 |
| 29    | 734   | 477 | 659 | 590 | 290  | 232 | ---  | --- | ---    | --- | 438       | 397 |
| 30    | 577   | 465 | 614 | 407 | 324  | 273 | ---  | --- | ---    | --- | 435       | 408 |
| 31    | ---   | --- | 495 | 348 | ---  | --- | ---  | --- | ---    | --- | ---       | --- |
| MONTH | 780   | 213 | 659 | 64  | 521  | 38  | 545  | 106 | ---    | --- | ---       | --- |

## MISSISSIPPI RIVER DELTA

07386935 VERMILION RIVER AT STATE HIGHWAY 3073, NEAR LAFAYETTE, LA--Continued

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

| DAY     | MAX | MIN      | MAX | MIN      | MAX | MIN     | MAX | MIN      | MAX | MIN   | MAX | MIN |
|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-------|-----|-----|
| OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH |     |     |
| 1       | 7.5 | 6.9      | 6.8 | 6.7      | 6.2 | 6.0     | 6.7 | 6.6      | 6.7 | 6.6   | 6.7 | 6.6 |
| 2       | 7.1 | 7.0      | 6.8 | 6.7      | 6.3 | 6.1     | 6.6 | 6.5      | 6.6 | 6.5   | 6.7 | 6.6 |
| 3       | 7.1 | 7.0      | 6.9 | 6.6      | 6.3 | 6.2     | 6.6 | 6.4      | 6.7 | 6.5   | 6.7 | 6.6 |
| 4       | 7.1 | 7.0      | 6.9 | 6.6      | 6.3 | 6.2     | 6.6 | 6.5      | 6.7 | 6.6   | 6.7 | 6.6 |
| 5       | 7.2 | 7.0      | 6.4 | 6.3      | 6.4 | 6.2     | 6.6 | 6.5      | 6.7 | 6.5   | 6.8 | 6.7 |
| 6       | 7.2 | 7.1      | 7.0 | 6.8      | 6.4 | 6.3     | 6.6 | 6.5      | --- | ---   | 6.9 | 6.7 |
| 7       | 7.3 | 7.1      | 7.0 | 6.9      | 6.5 | 6.3     | 6.6 | 6.5      | --- | ---   | 6.9 | 6.3 |
| 8       | 7.3 | 7.1      | 7.1 | 6.9      | 6.6 | 6.4     | 6.6 | 6.5      | --- | ---   | 6.9 | 6.7 |
| 9       | 7.4 | 7.1      | 7.1 | 7.0      | 6.8 | 6.5     | 6.6 | 6.5      | --- | ---   | 6.7 | 6.6 |
| 10      | 7.5 | 7.2      | 7.1 | 7.0      | 6.9 | 6.5     | 6.6 | 6.5      | --- | ---   | 6.6 | 6.5 |
| 11      | 7.3 | 7.2      | 7.1 | 7.0      | 6.5 | 6.3     | 6.6 | 6.5      | --- | ---   | 6.6 | 6.5 |
| 12      | 7.3 | 7.1      | 7.1 | 7.0      | 6.3 | 6.1     | 6.6 | 6.5      | --- | ---   | 6.5 | 6.5 |
| 13      | 7.3 | 7.2      | 7.1 | 7.0      | 6.1 | 6.1     | 6.6 | 6.4      | --- | ---   | 6.5 | 6.4 |
| 14      | 7.4 | 7.1      | 7.2 | 7.1      | 6.2 | 6.1     | 6.6 | 6.5      | --- | ---   | 6.5 | 6.4 |
| 15      | 7.7 | 7.2      | 7.1 | 7.1      | 6.3 | 6.1     | 6.6 | 6.5      | --- | ---   | 6.6 | 6.4 |
| 16      | 7.6 | 7.3      | 7.1 | 7.0      | 6.4 | 6.3     | 6.6 | 6.5      | --- | ---   | 6.6 | 6.5 |
| 17      | 7.6 | 7.3      | 7.1 | 7.0      | 6.4 | 6.3     | 6.6 | 6.5      | --- | ---   | 6.6 | 6.5 |
| 18      | 7.6 | 7.1      | 7.2 | 6.9      | 6.5 | 6.3     | 6.6 | 6.5      | --- | ---   | 6.6 | 6.5 |
| 19      | 7.7 | 6.7      | 7.1 | 7.1      | 6.6 | 6.4     | 6.6 | 6.6      | --- | ---   | 6.7 | 6.6 |
| 20      | 6.7 | 6.5      | 7.1 | 7.0      | 6.5 | 6.4     | 6.6 | 6.5      | --- | ---   | 6.6 | 6.6 |
| 21      | 6.6 | 6.4      | 7.1 | 6.9      | 6.5 | 6.4     | 6.7 | 6.5      | --- | ---   | 6.6 | 6.5 |
| 22      | 6.4 | 6.3      | 7.0 | 6.8      | 6.8 | 6.5     | 6.7 | 6.6      | --- | ---   | 6.5 | 6.5 |
| 23      | 6.4 | 6.2      | 7.1 | 6.7      | 6.7 | 6.5     | 6.8 | 6.6      | --- | ---   | 6.8 | 6.6 |
| 24      | 6.3 | 6.2      | 7.0 | 6.6      | 6.7 | 6.6     | 6.8 | 6.6      | 6.7 | 6.5   | 6.8 | 6.6 |
| 25      | 6.4 | 6.2      | 6.6 | 6.4      | --- | ---     | 6.9 | 6.7      | 6.6 | 6.5   | 6.8 | 6.6 |
| 26      | 6.3 | 6.2      | 6.6 | 6.4      | 6.6 | 6.5     | 6.9 | 6.7      | 6.6 | 6.5   | 6.7 | 6.6 |
| 27      | 6.4 | 6.2      | 6.5 | 6.1      | 6.6 | 6.5     | 6.8 | 6.7      | 6.6 | 6.5   | 6.7 | 6.5 |
| 28      | 6.4 | 6.1      | 6.2 | 6.0      | 6.7 | 6.5     | 6.8 | 6.7      | 6.7 | 6.6   | 6.6 | 6.5 |
| 29      | 6.5 | 6.3      | 6.1 | 5.9      | 6.7 | 6.6     | 6.7 | 6.6      | --- | ---   | 6.6 | 6.5 |
| 30      | 6.6 | 6.5      | 6.1 | 5.9      | 6.6 | 6.5     | 6.6 | 6.6      | --- | ---   | 6.7 | 6.5 |
| 31      | 6.8 | 6.6      | --- | ---      | 6.7 | 6.5     | 6.7 | 6.5      | --- | ---   | 6.7 | 6.6 |
| MONTH   | 7.7 | 6.1      | 7.2 | 5.9      | 6.9 | 6.0     | 6.9 | 6.4      | --- | ---   | 6.9 | 6.4 |

| DAY   | MAX | MIN | MAX | MIN  | MAX | MIN  | MAX | MIN    | MAX | MIN       | MAX | MIN |
|-------|-----|-----|-----|------|-----|------|-----|--------|-----|-----------|-----|-----|
| APRIL |     | MAY |     | JUNE |     | JULY |     | AUGUST |     | SEPTEMBER |     |     |
| 1     | 6.7 | 6.6 | 6.9 | 6.9  | 6.6 | 6.4  | 6.2 | 6.2    | 6.4 | 6.2       | 6.8 | 6.6 |
| 2     | 6.6 | 6.6 | 7.0 | 6.8  | 6.5 | 6.3  | 6.7 | 6.1    | 6.5 | 6.3       | 6.8 | 6.7 |
| 3     | 6.8 | 6.6 | 7.0 | 6.8  | 6.4 | 6.3  | 6.5 | 5.8    | 6.6 | 6.3       | 6.9 | 6.6 |
| 4     | 6.7 | 6.5 | 6.9 | 6.9  | 6.5 | 6.3  | 6.0 | 5.7    | 6.5 | 6.3       | 6.9 | 6.7 |
| 5     | 6.5 | 6.4 | 6.9 | 6.0  | 6.3 | 6.1  | 6.2 | 5.9    | 6.5 | 6.4       | --- | --- |
| 6     | 6.5 | 6.4 | 6.8 | 5.9  | 6.3 | 5.8  | 6.1 | 5.9    | 6.4 | 6.2       | --- | --- |
| 7     | 6.4 | 6.4 | 6.1 | 6.1  | 6.1 | 5.9  | 6.0 | 5.9    | 6.7 | 6.3       | --- | --- |
| 8     | 6.5 | 6.4 | 6.2 | 6.1  | 6.0 | 5.9  | 6.1 | 6.0    | 6.5 | 6.2       | --- | --- |
| 9     | 6.6 | 6.5 | 6.2 | 6.1  | 6.0 | 5.9  | 6.0 | 6.0    | 6.2 | 6.0       | --- | --- |
| 10    | 6.6 | 6.5 | 6.2 | 6.2  | 6.7 | 6.0  | 6.4 | 5.9    | 6.2 | 6.1       | --- | --- |
| 11    | 6.6 | 6.6 | 6.4 | 6.2  | 6.7 | 5.9  | 6.4 | 6.1    | 6.4 | 6.2       | --- | --- |
| 12    | 6.7 | 6.6 | 6.3 | 6.2  | 6.0 | 5.7  | 6.1 | 6.0    | 6.5 | 6.2       | --- | --- |
| 13    | 6.7 | 6.6 | 6.4 | 6.3  | 5.9 | 5.8  | 6.3 | 6.0    | 6.8 | 6.3       | --- | --- |
| 14    | 6.7 | 6.6 | 6.4 | 6.3  | 5.9 | 5.9  | 6.3 | 6.0    | 6.6 | 6.4       | --- | --- |
| 15    | 6.7 | 6.6 | 6.5 | 6.4  | 5.9 | 5.9  | 6.1 | 6.1    | 6.6 | 6.4       | 7.2 | 6.7 |
| 16    | 6.7 | 6.6 | 6.5 | 6.5  | 5.9 | 5.9  | 6.2 | 6.1    | 6.5 | 6.4       | 7.6 | 6.7 |
| 17    | 6.7 | 6.6 | 6.9 | 6.5  | 5.9 | 5.9  | 6.2 | 6.1    | 6.5 | 6.4       | 6.9 | 6.7 |
| 18    | 6.7 | 6.6 | 6.7 | 6.6  | 5.9 | 5.9  | 6.3 | 6.2    | 6.5 | 6.5       | 6.8 | 6.6 |
| 19    | 6.7 | 6.6 | 6.7 | 6.6  | 5.9 | 5.8  | 6.3 | 6.2    | 6.5 | 6.5       | 6.9 | 6.6 |
| 20    | 6.8 | 6.6 | 6.7 | 6.6  | 5.9 | 5.8  | 6.4 | 6.2    | 6.6 | 6.5       | 6.9 | 6.6 |
| 21    | 6.8 | 6.6 | 6.7 | 6.6  | 5.9 | 5.9  | 6.4 | 6.3    | 6.6 | 6.5       | 7.0 | 6.6 |
| 22    | 6.7 | 6.7 | 6.7 | 6.6  | 5.9 | 5.9  | 6.4 | 6.3    | 6.6 | 6.5       | 6.8 | 6.5 |
| 23    | 6.8 | 6.6 | 6.8 | 6.7  | 6.3 | 5.9  | 6.5 | 6.3    | 6.6 | 6.5       | 6.8 | 6.5 |
| 24    | 6.8 | 6.6 | 6.7 | 6.7  | 6.0 | 5.9  | 6.6 | 6.3    | 6.8 | 6.5       | 7.6 | 6.4 |
| 25    | 6.8 | 6.7 | 6.7 | 6.6  | 6.1 | 5.9  | 6.5 | 6.3    | 7.0 | 6.6       | 7.5 | 6.4 |
| 26    | 6.8 | 6.7 | 6.8 | 6.7  | 6.2 | 6.0  | 6.5 | 6.3    | 7.0 | 6.6       | 7.5 | 6.6 |
| 27    | 6.8 | 6.7 | 6.8 | 6.7  | 6.2 | 6.0  | 6.5 | 6.3    | 6.6 | 6.5       | 7.4 | 6.6 |
| 28    | 6.9 | 6.7 | 6.8 | 6.5  | 6.1 | 6.1  | 6.4 | 6.3    | 6.6 | 6.5       | 6.9 | 6.6 |
| 29    | 6.9 | 6.8 | 6.6 | 6.5  | 6.2 | 6.1  | 6.4 | 6.2    | 6.6 | 6.6       | 7.0 | 6.6 |
| 30    | 6.9 | 6.8 | 6.6 | 6.5  | 6.2 | 6.1  | 6.5 | 6.2    | 6.7 | 6.6       | 6.9 | 6.6 |
| 31    | --- | --- | 6.5 | 6.5  | --- | ---  | 6.7 | 6.3    | 6.8 | 6.6       | --- | --- |
| MONTH | 6.9 | 6.4 | 7.0 | 5.9  | 6.7 | 5.7  | 6.7 | 5.7    | 7.0 | 6.0       | 7.6 | 6.4 |

## MISSISSIPPI RIVER DELTA

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07386935 VERMILION RIVER AT STATE HIGHWAY 3073, NEAR LAFAYETTE, 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  |
|-------|---------|------|----------|------|----------|------|---------|------|----------|------|-----------|------|
|       | OCTOBER |      | NOVEMBER |      | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH     |      |
| 1     | 27.0    | 25.5 | 16.0     | 15.0 | 10.5     | 9.5  | 10.5    | 9.5  | 14.5     | 13.5 | ---       | ---  |
| 2     | 24.5    | 24.0 | 16.5     | 15.5 | 12.0     | 10.5 | 12.0    | 9.5  | 13.5     | 11.5 | ---       | ---  |
| 3     | 24.5    | 23.5 | 17.5     | 15.5 | 13.0     | 12.0 | 12.0    | 10.0 | 12.0     | 10.5 | ---       | ---  |
| 4     | 24.5    | 23.0 | 17.0     | 15.5 | 13.5     | 12.0 | 12.0    | 10.5 | 12.0     | 11.0 | ---       | ---  |
| 5     | 24.0    | 23.0 | 16.5     | 15.5 | 14.0     | 12.5 | 13.5    | 10.5 | ---      | ---  | ---       | ---  |
| 6     | 24.0    | 22.0 | 18.5     | 16.0 | 14.5     | 13.5 | 11.5    | 10.5 | ---      | ---  | ---       | ---  |
| 7     | 23.5    | 21.5 | 18.5     | 16.5 | 16.0     | 14.5 | 13.0    | 11.0 | ---      | ---  | ---       | ---  |
| 8     | 24.5    | 21.0 | 18.5     | 17.0 | 16.5     | 15.5 | 12.5    | 11.5 | ---      | ---  | ---       | ---  |
| 9     | 24.0    | 21.5 | 19.0     | 17.5 | 17.0     | 16.0 | 12.5    | 11.5 | ---      | ---  | ---       | ---  |
| 10    | 24.5    | 22.0 | 20.0     | 18.5 | 16.0     | 14.0 | 12.5    | 11.0 | ---      | ---  | ---       | ---  |
| 11    | 24.5    | 22.0 | 20.0     | 19.0 | 14.0     | 12.5 | 11.5    | 10.0 | ---      | ---  | ---       | ---  |
| 12    | 24.0    | 22.5 | 19.5     | 18.5 | 12.5     | 11.5 | 10.5    | 9.0  | ---      | ---  | ---       | ---  |
| 13    | 23.5    | 21.5 | 18.5     | 18.0 | 12.0     | 11.0 | 9.5     | 8.0  | ---      | ---  | ---       | ---  |
| 14    | 24.5    | 21.5 | 20.0     | 18.0 | 12.0     | 11.0 | 9.5     | 9.0  | ---      | ---  | ---       | ---  |
| 15    | 24.0    | 21.5 | 19.5     | 19.0 | 12.5     | 11.0 | 11.0    | 9.0  | ---      | ---  | ---       | ---  |
| 16    | 23.5    | 22.5 | 19.5     | 18.5 | 12.5     | 12.0 | 12.0    | 9.0  | 10.5     | 9.0  | 18.5      | 17.0 |
| 17    | 24.0    | 23.0 | 18.5     | 17.0 | 12.5     | 11.5 | 11.0    | 9.0  | 11.5     | 10.5 | 18.0      | 17.0 |
| 18    | 24.0    | 21.5 | 17.0     | 15.5 | 13.0     | 11.5 | 10.0    | 9.0  | 12.5     | 11.0 | 19.0      | 17.5 |
| 19    | 22.0    | 20.5 | 15.5     | 14.5 | 13.5     | 12.0 | 9.5     | 9.0  | 13.5     | 12.0 | 18.0      | 16.5 |
| 20    | 21.0    | 20.5 | 14.0     | 13.5 | 12.0     | 9.5  | 9.5     | 9.0  | ---      | ---  | 18.0      | 16.0 |
| 21    | 20.5    | 19.5 | 13.5     | 13.0 | 9.5      | 9.0  | 10.5    | 9.0  | ---      | ---  | 17.5      | 16.5 |
| 22    | 19.5    | 18.5 | 13.5     | 13.0 | 9.5      | 9.0  | 9.5     | 9.0  | ---      | ---  | 17.5      | 16.5 |
| 23    | 19.5    | 18.5 | 13.5     | 13.0 | 11.0     | 9.0  | 10.5    | 8.5  | ---      | ---  | 18.0      | 16.0 |
| 24    | 20.0    | 19.0 | 13.5     | 12.5 | 12.5     | 11.0 | 11.5    | 9.5  | ---      | ---  | 19.5      | 16.0 |
| 25    | 19.0    | 18.0 | 13.5     | 12.5 | 11.0     | 6.5  | 12.0    | 10.0 | ---      | ---  | 20.0      | 16.5 |
| 26    | 14.5    | 17.5 | 12.5     | 8.5  | 9.5      | 8.5  | 12.5    | 11.0 | ---      | ---  | 19.5      | 17.5 |
| 27    | 19.0    | 17.5 | 9.0      | 7.0  | 10.0     | 8.5  | 13.5    | 12.0 | ---      | ---  | 20.0      | 17.5 |
| 28    | 19.0    | 18.5 | 8.5      | 7.5  | 10.5     | 9.0  | 14.0    | 12.5 | ---      | ---  | 20.0      | 18.5 |
| 29    | 18.0    | 16.5 | 9.0      | 8.0  | 10.0     | 9.5  | 15.0    | 13.0 | ---      | ---  | 20.0      | 19.5 |
| 30    | 17.0    | 15.5 | 10.0     | 9.0  | 10.5     | 9.5  | 14.5    | 13.5 | ---      | ---  | 21.0      | 19.5 |
| 31    | 14.0    | 15.5 | ---      | ---  | 10.5     | 9.5  | 14.0    | 12.5 | ---      | ---  | 21.5      | 20.0 |
| MONTH | 27.0    | 15.5 | 20.0     | 7.0  | 17.0     | 6.5  | 15.0    | 8.0  | ---      | ---  | ---       | ---  |
| DAY   | MAX     | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN  |
|       | APRIL   |      | MAY      |      | JUNE     |      | JULY    |      | AUGUST   |      | SEPTEMBER |      |
| 1     | 22.0    | 21.5 | 26.5     | 26.0 | 28.5     | 26.5 | 31.0    | 29.0 | 32.0     | 28.5 | 30.5      | 29.0 |
| 2     | 21.5    | 21.0 | 27.0     | 25.5 | 28.0     | 26.0 | 29.5    | 24.0 | 31.5     | 29.5 | 30.5      | 29.0 |
| 3     | 22.5    | 21.5 | 26.5     | 25.5 | 28.0     | 26.5 | 27.0    | 23.5 | 32.5     | 30.0 | 30.0      | 29.0 |
| 4     | 22.5    | 22.0 | 25.5     | 25.0 | 27.5     | 27.0 | 26.0    | 24.5 | 32.0     | 30.0 | 30.5      | 29.0 |
| 5     | 23.0    | 21.5 | 25.0     | 21.5 | 27.0     | 26.0 | 26.0    | 25.5 | 31.0     | 29.5 | 31.0      | 28.5 |
| 6     | 24.0    | 21.0 | 23.5     | 21.5 | 27.0     | 25.5 | 27.0    | 25.5 | 29.5     | 27.0 | 30.0      | 28.5 |
| 7     | 22.0    | 21.0 | 22.5     | 21.5 | 27.0     | 26.5 | 27.0    | 26.0 | 29.5     | 27.0 | 31.0      | 28.5 |
| 8     | 22.0    | 21.0 | 22.5     | 21.5 | 28.0     | 27.0 | 27.5    | 26.5 | 30.0     | 28.5 | 30.5      | 28.5 |
| 9     | 23.0    | 21.5 | 22.0     | 21.5 | 28.5     | 27.5 | 28.0    | 27.0 | 30.5     | 27.5 | 29.0      | 28.0 |
| 10    | 24.0    | 22.0 | 22.5     | 21.5 | 28.0     | 25.0 | 29.0    | 27.5 | 30.0     | 28.0 | 28.5      | 27.0 |
| 11    | 24.5    | 23.0 | 22.5     | 21.0 | 25.0     | 23.5 | 29.0    | 26.5 | 30.0     | 28.0 | 28.5      | 27.0 |
| 12    | 25.0    | 23.5 | 23.0     | 21.0 | 26.5     | 24.0 | 29.0    | 27.5 | 30.5     | 28.0 | 29.0      | 27.5 |
| 13    | 24.5    | 24.0 | 23.0     | 21.5 | 27.0     | 25.5 | 29.5    | 28.0 | 31.0     | 28.5 | 30.0      | 28.0 |
| 14    | 25.0    | 24.0 | 24.0     | 22.5 | 27.5     | 26.5 | 30.0    | 28.0 | 31.0     | 29.5 | 29.5      | 28.5 |
| 15    | 25.0    | 24.0 | 24.5     | 23.0 | 27.5     | 26.5 | 30.5    | 29.0 | 32.5     | 29.5 | 28.5      | 27.5 |
| 16    | 25.5    | 24.0 | 24.0     | 23.5 | 27.5     | 26.5 | 31.0    | 29.5 | 32.5     | 30.0 | 29.0      | 27.0 |
| 17    | 26.0    | 24.5 | 25.0     | 22.5 | 27.5     | 26.5 | 32.5    | 29.5 | 33.0     | 30.5 | 27.5      | 26.0 |
| 18    | 26.5    | 24.5 | 25.0     | 24.0 | 28.0     | 26.5 | 33.0    | 30.0 | 33.5     | 31.0 | 26.0      | 25.0 |
| 19    | 26.0    | 25.0 | 26.0     | 24.5 | 28.5     | 27.0 | 33.0    | 30.0 | 33.0     | 31.0 | ---       | ---  |
| 20    | 27.5    | 25.0 | 25.0     | 24.5 | 28.5     | 27.5 | 33.5    | 30.5 | 32.0     | 30.5 | 25.5      | 23.5 |
| 21    | 27.5    | 25.0 | 25.5     | 23.5 | 29.0     | 28.0 | 33.0    | 30.5 | 32.0     | 30.0 | 26.0      | 24.0 |
| 22    | 26.0    | 25.0 | 25.5     | 24.0 | 29.5     | 28.5 | 33.0    | 31.0 | 31.5     | 30.0 | 26.5      | 24.0 |
| 23    | 26.0    | 24.0 | 26.0     | 24.5 | 28.5     | 27.0 | 33.0    | 30.5 | 31.0     | 30.0 | 26.5      | 24.5 |
| 24    | 25.0    | 23.5 | 26.0     | 24.5 | 27.5     | 26.0 | 33.0    | 31.0 | 31.0     | 29.5 | 28.0      | 24.5 |
| 25    | 24.5    | 24.0 | 25.5     | 25.0 | 28.5     | 26.0 | 32.0    | 31.0 | 31.5     | 29.5 | 27.5      | 25.0 |
| 26    | 25.5    | 23.5 | 27.0     | 25.0 | 28.5     | 27.5 | 32.0    | 30.5 | 31.0     | 29.5 | 28.0      | 25.5 |
| 27    | 24.5    | 24.0 | 27.5     | 26.0 | 29.0     | 27.0 | 31.0    | 30.0 | 30.5     | 29.5 | 28.5      | 26.0 |
| 28    | 26.5    | 25.0 | 28.5     | 26.5 | 29.5     | 28.0 | 30.5    | 29.0 | 30.0     | 29.5 | ---       | ---  |
| 29    | 27.0    | 25.5 | 28.5     | 27.0 | 29.5     | 28.0 | 31.0    | 28.0 | 29.5     | 29.0 | ---       | ---  |
| 30    | 27.0    | 26.0 | 29.5     | 27.5 | 31.5     | 28.5 | 30.5    | 29.0 | 30.0     | 28.5 | 28.5      | 26.5 |
| 31    | ---     | ---  | 27.5     | 26.0 | ---      | ---  | 31.5    | 28.5 | 29.0     | 29.0 | ---       | ---  |
| MONTH | 27.5    | 21.0 | 29.5     | 21.0 | 31.5     | 23.5 | 33.5    | 23.5 | 33.5     | 27.0 | 31.0      | 23.5 |

07386935 VERMILION RIVER AT STATE HIGHWAY 3073, NEAR LAFAYETTE, LA--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
| 1     | 2.9     | 2.0 | 2.2      | 1.1 | 5.4      | 4.9 | 3.3     | 2.1 | 4.6      | 3.0 | ---       | --- |
| 2     | 1.9     | 1.4 | 2.3      | 1.1 | 4.9      | 4.4 | 3.7     | 2.5 | 5.3      | 3.1 | ---       | --- |
| 3     | 1.6     | 1.2 | 2.0      | 1.0 | 4.5      | 4.1 | 3.4     | 3.0 | 5.3      | 4.5 | ---       | --- |
| 4     | 1.5     | 1.1 | 2.4      | 1.6 | 4.1      | 3.6 | 3.1     | 2.9 | 4.7      | 4.0 | ---       | --- |
| 5     | 1.7     | 1.1 | 2.7      | 2.2 | 3.6      | 3.3 | 3.3     | 2.7 | ---      | --- | ---       | --- |
| 6     | 2.4     | 1.1 | 2.3      | 1.6 | 3.3      | 2.8 | 3.0     | 2.7 | 9.7      | 8.6 | 3.4       | 2.0 |
| 7     | 3.0     | 1.3 | 2.0      | 1.2 | 2.7      | 2.3 | 3.0     | 1.8 | 9.4      | 7.7 | 4.0       | 1.9 |
| 8     | 3.0     | 1.5 | 1.7      | 1.1 | 2.5      | 1.9 | 2.9     | 1.6 | 8.7      | 7.9 | 4.5       | 2.2 |
| 9     | 3.3     | 1.4 | 1.6      | .9  | 3.5      | 1.8 | 2.6     | 1.3 | 8.7      | 7.6 | 4.8       | 3.9 |
| 10    | 4.0     | 1.5 | 1.3      | 1.0 | 4.3      | 3.2 | 2.6     | 2.0 | 7.8      | 6.7 | 4.3       | 3.5 |
| 11    | 2.7     | 1.2 | 1.3      | 1.0 | 3.7      | 2.8 | 3.6     | 2.2 | 6.7      | 6.0 | 4.3       | 3.5 |
| 12    | 2.2     | .9  | 1.4      | 1.0 | 3.7      | 3.4 | 4.1     | 3.5 | 6.7      | 6.2 | 5.3       | 4.0 |
| 13    | 2.4     | 1.2 | 1.7      | 1.1 | 3.6      | 3.4 | 3.7     | 3.3 | 6.7      | 6.4 | 5.7       | 4.6 |
| 14    | 4.1     | .8  | 1.9      | 1.0 | 3.7      | 3.5 | 3.8     | 3.2 | 6.6      | 6.3 | 5.8       | 5.0 |
| 15    | 5.5     | 1.8 | 1.3      | .9  | 3.8      | 3.6 | 3.5     | 2.4 | 6.6      | 6.2 | 5.8       | 5.3 |
| 16    | 4.6     | 2.6 | 1.8      | 1.2 | 3.7      | 3.5 | 3.2     | 2.2 | 6.2      | 5.5 | 5.7       | 5.3 |
| 17    | 3.8     | 2.4 | 2.2      | .6  | 3.8      | 3.4 | 4.8     | 1.7 | 6.5      | 5.2 | 5.4       | 4.3 |
| 18    | 4.9     | 2.5 | 3.5      | .9  | 3.7      | 2.8 | 4.4     | 3.7 | 6.1      | 5.6 | 5.6       | 3.0 |
| 19    | 5.0     | 2.1 | 3.6      | 3.1 | 3.7      | 2.9 | 4.1     | 3.6 | 5.6      | 5.0 | 5.8       | 5.4 |
| 20    | 1.9     | 1.2 | 3.5      | 2.7 | 4.6      | 3.6 | 4.2     | 2.4 | 5.0      | 4.1 | 5.6       | 4.5 |
| 21    | 1.8     | 1.5 | 3.2      | 2.3 | 4.8      | 4.5 | 5.7     | 1.6 | 4.1      | 3.6 | 4.7       | 4.2 |
| 22    | 1.6     | 1.3 | 5.5      | 2.4 | 4.6      | 3.7 | 5.6     | 5.2 | 3.6      | 2.9 | 5.2       | 4.3 |
| 23    | 1.3     | .9  | 7.1      | 3.5 | 4.4      | 3.5 | 5.4     | 4.9 | 4.9      | 3.1 | 5.2       | 4.6 |
| 24    | 1.2     | .8  | 6.9      | 5.5 | 4.1      | 3.3 | 5.2     | 4.0 | 4.2      | 2.3 | 4.9       | 4.2 |
| 25    | 1.6     | .9  | 5.6      | 5.0 | ---      | --- | 4.4     | 3.6 | 3.2      | 1.8 | 4.4       | 2.8 |
| 26    | 1.8     | 1.4 | 8.9      | 5.5 | 4.8      | 4.4 | 3.8     | 2.5 | 2.6      | 1.5 | 3.9       | 3.0 |
| 27    | 1.9     | 1.6 | 9.1      | 7.8 | 4.5      | 4.0 | 2.9     | 2.0 | ---      | --- | 3.3       | 1.8 |
| 28    | 1.7     | 1.2 | 8.3      | 7.4 | 4.2      | 3.7 | 2.9     | 2.3 | ---      | --- | 4.1       | 1.5 |
| 29    | 2.2     | 1.7 | 7.4      | 5.9 | 3.9      | 3.5 | 2.5     | 1.2 | ---      | --- | 4.6       | 1.9 |
| 30    | 2.6     | 2.2 | 5.9      | 5.3 | 3.7      | 1.6 | 3.7     | 1.3 | ---      | --- | 4.1       | .4  |
| 31    | 2.7     | 2.1 | ---      | --- | 3.4      | 2.1 | 5.3     | 3.7 | ---      | --- | 3.9       | 3.3 |
| MONTH | 5.5     | .8  | 9.1      | .6  | 5.4      | 1.6 | 5.7     | 1.2 | 9.7      | 1.5 | 5.8       | .4  |
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
|       | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
| 1     | 3.4     | .9  | 2.1      | .9  | 3.5      | 2.3 | 1.8     | .9  | 2.7      | 1.2 | ---       | --- |
| 2     | 2.5     | 1.9 | 4.2      | .5  | 3.8      | 2.2 | 5.6     | .8  | 1.9      | .8  | ---       | --- |
| 3     | 3.0     | 1.3 | 3.7      | 1.1 | 3.9      | 2.8 | 5.7     | 3.1 | 3.3      | .6  | ---       | --- |
| 4     | 3.2     | 1.6 | 3.4      | 2.0 | 3.2      | 1.9 | 4.4     | 3.4 | 2.8      | .6  | ---       | --- |
| 5     | 4.5     | 3.2 | 5.3      | 2.4 | 4.8      | 1.7 | 4.4     | 3.4 | 2.0      | .4  | ---       | --- |
| 6     | 4.2     | 3.2 | 4.6      | 1.4 | 4.0      | 1.7 | 4.3     | 3.6 | 4.3      | .4  | ---       | --- |
| 7     | 3.0     | 1.8 | 4.0      | 2.7 | 2.9      | 2.4 | 3.4     | 2.9 | 3.4      | .5  | ---       | --- |
| 8     | 3.0     | 1.5 | 4.0      | 3.6 | 2.5      | 2.0 | 3.4     | 2.9 | 1.4      | .3  | ---       | --- |
| 9     | 3.0     | 1.9 | 3.7      | 3.3 | 2.8      | 1.8 | 2.9     | 2.1 | 1.0      | .3  | ---       | --- |
| 10    | 3.0     | 1.3 | 3.5      | 2.7 | 5.6      | 2.5 | 2.4     | 1.7 | 1.4      | .2  | ---       | --- |
| 11    | 2.6     | 1.0 | 3.5      | 3.0 | 6.7      | 5.4 | 1.9     | 1.4 | 2.3      | .2  | 10.8      | 8.0 |
| 12    | 2.8     | 1.1 | 3.2      | 2.8 | 5.5      | 3.6 | 1.6     | 1.2 | 2.9      | .3  | 10.6      | 8.0 |
| 13    | 2.4     | .8  | 3.1      | 2.6 | 3.6      | 2.9 | 1.4     | .8  | 3.8      | .4  | 10.8      | 6.6 |
| 14    | 1.6     | .2  | 2.8      | 2.2 | 3.0      | 2.5 | 1.4     | .7  | 2.8      | .4  | 9.8       | 6.9 |
| 15    | 1.7     | .2  | 2.7      | 2.3 | 2.5      | 1.8 | .9      | .7  | 2.2      | .3  | 8.4       | 3.6 |
| 16    | 1.2     | .4  | 2.6      | 2.1 | 1.7      | 1.1 | .8      | .5  | .9       | .2  | 5.1       | 1.7 |
| 17    | 1.5     | .4  | 2.9      | 1.1 | 1.1      | .7  | 1.7     | .5  | 1.4      | .1  | 3.6       | 1.7 |
| 18    | 2.0     | .2  | 3.8      | 2.4 | .7       | .5  | 2.1     | 1.0 | 1.3      | .0  | 2.7       | 1.0 |
| 19    | 2.0     | .4  | 3.4      | 3.1 | .6       | .4  | 2.0     | 1.1 | .8       | .0  | 3.8       | .8  |
| 20    | 3.3     | .5  | 3.5      | 3.2 | .5       | .4  | 2.4     | 1.0 | .8       | .0  | 3.8       | 1.2 |
| 21    | 4.1     | .2  | 3.5      | 2.0 | .5       | .3  | 1.5     | .4  | 1.6      | .1  | 3.9       | 1.4 |
| 22    | 2.3     | .5  | 3.3      | 2.5 | .9       | .4  | 1.6     | .7  | 1.7      | .2  | 3.2       | .8  |
| 23    | 3.8     | .5  | 3.9      | 2.6 | 1.2      | .5  | 1.7     | .4  | 2.9      | .6  | 3.0       | .6  |
| 24    | 2.4     | .2  | 3.4      | 2.5 | 1.4      | .8  | 2.0     | .3  | 5.0      | .5  | 3.8       | .4  |
| 25    | 3.0     | .3  | 3.0      | 2.2 | 1.8      | .7  | 2.0     | .3  | ---      | --- | 4.0       | 1.0 |
| 26    | 2.2     | .5  | 2.8      | 2.4 | 2.6      | 1.4 | 2.3     | .3  | ---      | --- | 4.2       | 2.7 |
| 27    | 1.2     | .4  | 2.6      | 1.6 | 2.0      | 1.5 | 2.2     | .4  | ---      | --- | 4.1       | 2.9 |
| 28    | .4      | .2  | 2.9      | 1.6 | 1.9      | 1.5 | 1.1     | .3  | ---      | --- | 3.5       | 2.3 |
| 29    | 1.8     | .2  | 3.2      | 2.3 | 1.7      | 1.3 | 1.9     | .3  | 2.0      | .7  | 3.4       | 1.9 |
| 30    | 1.7     | .9  | 4.1      | 2.6 | 2.0      | .9  | 1.8     | .4  | 3.0      | .4  | 3.1       | 1.4 |
| 31    | ---     | --- | 4.5      | 2.6 | ---      | --- | 3.6     | .3  | 3.7      | .8  | ---       | --- |
| MONTH | 4.5     | .2  | 5.3      | .5  | 6.7      | .3  | 5.7     | .3  | 5.0      | .0  | ---       | --- |

08010010 BAYOU DES CANNES AT STATE HIGHWAY 755, NEAR EUNICE, LA

LOCATION.--Lat 30°27'55", long 92°30'05", in SE1/4SE1/4 sec. 6, T. 7 S., R. 1 W., Louisiana meridian, Acadia Parish, Hydrologic Unit 08080201, near left bank on upstream side of bridge on State Highway 755, 1.8 mi (2.9 km) downstream from gaging station Bayou Des Cannes near Eunice (station 0801000), and 4.5 mi (7.2 km) southwest of water tower at Eunice.

DRAINAGE AREA.--140 mi<sup>2</sup> (363 km<sup>2</sup>).

PERIOD OF RECORD.--October 1979 to current year (gage heights above 2.20 ft or 0.671 m only). Unpublished records, April 1941 to September 1979, available in files of Baton Rouge district office.

GAGE.--Water-stage recorder. Datum of gage is 13.70 ft (4.176 m) National Geodetic Vertical Datum of 1929. Apr. 1, 1941 to Nov. 1, 1950, nonrecording gage, Nov. 2, 1950 to Oct. 30, 1957, water-stage recorder, and Oct. 31, 1957 to Jan. 13, 1958, nonrecording gage at same site and datum.

REMARKS.--No elevations recorded below 2.20 ft (0.671 m). Small diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 17.22 ft (5.249 m) Mar. 29, 1980.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height since April 1941, 19.76 ft (6.023 m) May 20, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 15.44 ft (4.706 m) May 6; minimum, not determined.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
INSTANTANEOUS OBSERVATIONS AT 0800

| DAY  | OCT  | NOV  | DEC   | JAN  | FEB   | MAR  | APR  | MAY   | JUN   | JUL   | AUG  | SEP |
|------|------|------|-------|------|-------|------|------|-------|-------|-------|------|-----|
| 1    |      |      |       |      |       |      | 4.53 |       |       |       | 2.84 | --- |
| 2    |      |      |       |      |       |      | 3.60 | 4.17  |       |       | 2.43 | --- |
| 3    |      |      |       |      |       |      | 2.77 | 3.25  | 3.80  | 10.34 | ---  | --- |
| 4    |      |      |       |      |       |      | 3.27 |       | 7.80  | 8.48  | ---  | --- |
| 5    |      |      |       |      |       |      | 2.55 | 13.57 | 5.11  | 6.28  | ---  | --- |
| 6    |      |      |       |      |       |      | 2.24 | 15.40 | 11.30 | 14.14 | ---  | --- |
| 7    |      |      |       |      |       |      | 2.77 | 13.53 | 11.44 | 12.98 | ---  | --- |
| 8    |      |      |       |      |       |      | 3.06 | 8.60  |       | 11.68 | ---  | --- |
| 9    |      |      |       |      | 3.21  |      |      | 4.49  | ---   | 7.83  | ---  | --- |
| 10   |      |      | 13.13 |      | 8.01  |      | 2.45 | 4.93  | ---   | 5.97  | ---  | --- |
| 11   |      |      | 10.84 |      | 14.33 |      | 2.87 | 5.03  | ---   | 6.48  | ---  | --- |
| 12   |      |      | 4.69  |      | 10.85 |      | 2.21 | 3.56  | ---   | 5.62  | ---  | --- |
| 13   |      |      | 2.81  |      | 4.38  |      | 2.37 | 2.76  | ---   | 6.02  | ---  | --- |
| 14   |      |      |       |      | 2.75  |      |      | 2.40  | ---   | 6.09  | ---  | --- |
| 15   |      |      |       |      |       |      |      |       | ---   | 6.24  | ---  | --- |
| 16   |      |      |       |      |       |      |      |       | ---   | 5.38  | ---  | --- |
| 17   |      |      |       |      |       |      |      | 2.76  |       | 5.07  | ---  | --- |
| 18   |      |      |       |      |       |      |      | 3.81  |       | 4.67  | ---  | --- |
| 19   | 4.07 |      |       |      |       |      |      |       |       | 3.65  | ---  | --- |
| 20   | 3.37 |      |       |      |       |      |      |       |       | 2.72  | ---  | --- |
| 21   |      |      |       | 3.62 |       |      |      |       |       | 2.65  | ---  | --- |
| 22   |      |      |       |      |       |      |      |       |       | 2.87  | ---  | --- |
| 23   |      |      |       |      |       |      |      |       |       |       | ---  | --- |
| 24   |      |      |       |      |       |      | 3.86 |       |       |       | ---  | --- |
| 25   |      |      |       |      |       |      | 4.05 |       |       | 2.54  | ---  | --- |
| 26   |      |      |       |      |       |      | 2.66 |       |       |       | ---  | --- |
| 27   |      | 7.33 |       |      |       |      |      |       |       |       | ---  | --- |
| 28   |      | 4.16 |       |      |       |      |      |       |       |       | ---  | --- |
| 29   |      |      |       |      | ---   |      |      |       |       | 8.29  | ---  | --- |
| 30   |      |      |       |      | ---   | 6.36 |      |       |       | 4.89  | ---  | --- |
| 31   |      | ---  |       |      | ---   | 5.78 | ---  |       | ---   | 3.54  | ---  | --- |
| MEAN | .24  | .38  | 1.02  | .12  | 1.55  | .39  | 1.51 | 2.85  | ---   | 4.98  | ---  | --- |
| MAX  | 4.07 | 7.33 | 13.13 | 3.62 | 14.33 | 6.36 | 4.53 | 15.40 | ---   | 14.14 | ---  | --- |
| MIN  |      |      |       |      |       |      |      |       | ---   |       | ---  | --- |

NOTE: No gage-height record June 9-16, Aug. 3 to Sept. 3.



## MERMENTAU RIVER BASIN

08012020 BAYOU NEZPIQUE AT MAMOU PUMPING PLANT, NEAR BASILE, LA

LOCATION.--Lat 30°25'10", long 92°35'40", in lot 19, T. 7 S., R. 2 W., Louisiana meridian, Acadia-Jefferson Davis Parish line, Hydrologic Unit 08080201, at head of Mamou Canal, 4.5 mi (7.2 km) south of Basile, and 7.5 mi (12.1 km) downstream from gaging station Bayou Nezpique near Basile (station 08012000).

DRAINAGE AREA.--542 mi<sup>2</sup> (1,404 km<sup>2</sup>).

PERIOD OF RECORD.--October 1973 to current year (gage heights only). Unpublished records March 1945 to September 1973 available in files of Baton Rouge district office.

REVISED RECORDS.--WDR LA-77-2: 1974-76 (M).

GAGE.--Water-stage recorder. Datum of gage is 1.03 ft (0.314 m) below National Geodetic Vertical Datum of 1929. Prior to July 7, 1979, nonrecording gage at same site and datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 24.05 ft (7.330 m) Sept. 23, 1979; minimum daily, 2.35 ft (0.716 m) Oct. 28, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height since March 1945, 30.3 ft (9.24 m) May 21, 22, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 19.15 ft (5.837 m) June 15; minimum, 2.43 ft (0.741 m) June 17.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT   | NOV  | DEC   | JAN  | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP  |
|------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|------|------|
| 1    | 3.56  | 3.01 | 4.15  | 2.70 | 3.11  | 3.07  | 17.03 | 2.71  | 3.09  | 4.03  | 5.58 | 3.24 |
| 2    | 4.19  | 3.04 | 3.78  | 2.73 | 3.04  | 2.86  | 17.67 | 2.90  | 3.15  | 4.36  | 5.52 | 3.23 |
| 3    | 3.84  | 2.97 | 3.44  | 2.81 | 3.28  | 2.92  | 17.54 | 3.57  | 3.16  | 8.69  | 4.62 | 3.26 |
| 4    | 3.36  | 2.88 | 3.38  | 2.68 | 3.69  | 3.58  | 16.86 | 3.81  | 4.00  | 12.36 | 4.04 | 3.32 |
| 5    | 3.10  | 2.83 | 3.37  | 2.61 | 4.18  | 6.76  | 15.42 | 7.31  | 8.27  | 14.32 | 3.94 | 3.32 |
| 6    | 2.96  | 2.88 | 3.35  | 2.83 | 9.91  | 10.51 | 12.61 | 13.43 | 10.85 | 15.74 | 5.03 | 3.36 |
| 7    | 2.97  | 2.94 | 3.36  | 2.74 | 11.31 | 11.16 | 9.06  | 16.00 | 13.62 | 16.68 | 4.87 | 3.38 |
| 8    | 2.99  | 2.91 | 3.43  | 2.81 | 10.70 | 10.50 | 5.66  | 17.43 | 15.03 | 17.29 | 4.03 | 3.31 |
| 9    | 2.98  | 2.89 | 4.47  | 2.81 | 8.46  | 9.29  | 4.27  | 17.97 | 15.42 | 17.40 | 3.63 | 3.18 |
| 10   | 2.96  | 2.81 | 9.48  | 2.75 | 8.26  | 6.84  | 4.15  | 17.86 | 15.32 | 16.82 | 3.56 | 3.17 |
| 11   | 2.93  | 2.76 | 12.92 | 2.73 | 10.29 | 4.64  | 4.12  | 17.17 | 16.71 | 15.62 | 3.49 | 3.18 |
| 12   | 2.87  | 2.76 | 13.55 | 2.64 | 10.67 | 3.67  | 4.20  | 15.73 | 17.63 | 14.01 | 3.36 | 3.23 |
| 13   | 2.87  | 2.75 | 12.38 | 2.84 | 8.42  | 3.36  | 4.30  | 12.88 | 18.37 | 12.14 | 3.31 | 3.24 |
| 14   | 2.93  | 2.89 | 9.60  | 2.80 | 6.01  | 3.17  | 3.94  | 9.38  | 19.00 | 10.51 | 3.94 | 3.54 |
| 15   | 2.97  | 2.75 | 6.46  | 2.77 | 4.67  | 3.04  | 3.78  | 5.79  | 19.14 | 9.48  | 3.67 | 3.78 |
| 16   | 2.97  | 2.61 | 4.58  | 2.62 | 4.05  | 2.98  | 3.69  | 4.31  | 18.86 | 8.96  | 3.50 | 3.58 |
| 17   | 3.11  | 2.92 | 3.76  | 2.53 | 3.75  | 3.06  | 3.72  | 4.60  | 18.18 | 8.19  | 3.22 | 3.37 |
| 18   | 3.21  | 2.73 | 3.54  | 2.70 | 3.60  | 3.30  | 3.67  | 6.58  | 18.18 | 7.27  | 3.20 | 3.19 |
| 19   | 6.77  | 2.87 | 3.40  | 2.75 | 3.52  | 2.80  | 3.44  | 7.12  | 16.02 | 6.33  | 3.06 | 3.21 |
| 20   | 10.88 | 2.92 | 2.85  | 2.94 | 3.44  | 2.92  | 3.05  | 6.11  | 13.28 | 5.54  | 2.93 | 3.25 |
| 21   | 9.78  | 2.91 | 2.77  | 3.35 | 3.39  | 2.94  | 2.97  | 4.74  | 9.79  | 4.66  | 2.91 | 3.26 |
| 22   | 6.86  | 2.93 | 2.95  | 4.18 | 3.35  | 2.93  | 2.80  | 3.88  | 6.16  | 4.27  | 2.91 | 3.24 |
| 23   | 4.73  | 3.18 | 3.09  | 3.98 | 3.21  | 2.78  | 2.79  | 3.43  | 4.50  | 4.22  | 2.98 | 3.19 |
| 24   | 3.82  | 3.22 | 3.06  | 3.53 | 3.09  | 2.96  | 3.38  | 3.22  | 6.97  | 4.23  | 2.96 | 3.16 |
| 25   | 3.37  | 3.18 | 2.66  | 3.28 | 3.04  | 2.99  | 8.63  | 3.04  | 7.53  | 4.09  | 3.01 | 3.14 |
| 26   | 3.31  | 3.54 | 2.89  | 3.13 | 3.02  | 3.16  | 5.52  | 2.98  | 6.83  | 3.99  | 2.96 | 3.14 |
| 27   | 3.46  | 4.37 | 2.86  | 2.99 | 3.03  | 3.04  | 4.85  | 2.90  | 5.92  | 4.12  | 2.98 | 3.12 |
| 28   | 3.27  | 6.07 | 2.82  | 2.88 | 3.09  | 3.02  | 3.97  | 2.86  | 5.30  | 3.92  | 2.98 | 3.07 |
| 29   | 2.92  | 5.72 | 2.81  | 2.98 | ---   | 3.99  | 3.47  | 2.96  | 4.93  | 4.30  | 3.00 | 3.08 |
| 30   | 2.90  | 4.76 | 2.65  | 2.90 | ---   | 10.87 | 3.00  | 3.13  | 4.63  | 4.84  | 3.08 | 3.09 |
| 31   | 2.93  | ---  | 2.84  | 2.77 | ---   | 15.07 | ---   | 3.18  | ---   | 4.59  | 3.15 | ---  |
| MEAN | 3.93  | 3.23 | 4.73  | 2.93 | 5.34  | 4.97  | 6.65  | 7.39  | 10.99 | 8.81  | 3.59 | 3.26 |
| MAX  | 10.88 | 6.07 | 13.55 | 4.18 | 11.31 | 15.07 | 17.67 | 17.97 | 19.14 | 17.40 | 5.58 | 3.78 |
| MIN  | 2.87  | 2.61 | 2.65  | 2.53 | 3.02  | 2.78  | 2.79  | 2.71  | 3.09  | 3.92  | 2.91 | 3.07 |

08012150 MERMENTAU RIVER AT MERMENTAU, LA  
(National stream-quality accounting network station)

LOCATION.--Lat 30°11'23", long 92°35'25", on line between lots 14 and 31, T.10 S., R.2 W., Jefferson Davis Parish, Hydrologic Unit 08080202, at U.S. Highway 90 bridge between Silverwood and Mermentau.

DRAINAGE AREA.--1,381 mi<sup>2</sup> (3,577 km<sup>2</sup>).

PERIOD OF RECORD.--Water years 1953, 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1980 to current year.

WATER TEMPERATURES: April 1980 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 642 micromhos Oct. 2, 1981; minimum daily, 53 micromhos May 21, 1980.

WATER TEMPERATURES: Maximum daily, 31.0°C July 12, 14, 15, 17-20, 1980; minimum daily, 9.0°C Jan. 22, Feb. 7, 8, 1981.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 642 micromhos Oct. 2; minimum daily, 68 micromhos June 21.

WATER TEMPERATURES: Maximum daily, 30.0°C Aug. 3-5, 17-19; minimum daily, 9.0°C Jan. 22, Feb. 7, 8.

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

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|---------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------|
| OCT<br>22... | 1200 | 1900                                            | 191                                               | 6.2           | 20.0                        | 70                                           | 6.9                          | 1.2                                 | 3.8                                                            | K360                                                           | 450                                                                | 46                                     |
| JAN<br>13... | 1100 | E.00                                            | 142                                               | 6.3           | 11.0                        | 80                                           | 96                           | 6.7                                 | 4.4                                                            | K28                                                            | K28                                                                | 30                                     |
| MAR<br>02... | 1100 | E.00                                            | 127                                               | 5.6           | 16.5                        | 140                                          | 140                          | 5.4                                 | --                                                             | K20                                                            | --                                                                 | 29                                     |
| MAY<br>11... | 1030 | 5890                                            | 132                                               | 6.2           | 19.5                        | 120                                          | 84                           | 4.1                                 | --                                                             | K150                                                           | 4800                                                               | 35                                     |
| JUL<br>13... | 1015 | 4590                                            | 123                                               | 6.0           | 28.0                        | 70                                           | 45                           | 3.1                                 | .4                                                             | K55                                                            | 3800                                                               | 32                                     |
| SEP<br>03... | 0900 | 168                                             | 241                                               | 7.0           | 28.5                        | 30                                           | 22                           | 4.1                                 | 1.4                                                            | K75                                                            | 600                                                                | 63                                     |

| DATE         | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>FIELD<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) |
|--------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|
| OCT<br>22... | 0                                                      | 11                                           | 4.5                                                  | 18                                           | 6.4                                                 | 48                                                | 7.0                                           | 25                                                  | .2                                                 | 10                                             | 135                                                                | 114                                                            |
| JAN<br>13... | 1                                                      | 7.6                                          | 2.6                                                  | 12                                           | 3.8                                                 | 29                                                | 4.7                                           | 18                                                  | .1                                                 | 8.2                                            | 94                                                                 | 74                                                             |
| MAR<br>02... | 4                                                      | 7.8                                          | 2.3                                                  | 13                                           | 3.0                                                 | 25                                                | 8.0                                           | 15                                                  | .1                                                 | 6.8                                            | 90                                                                 | 71                                                             |
| MAY<br>11... | 5                                                      | 8.7                                          | 3.1                                                  | 13                                           | 2.8                                                 | 30                                                | 17                                            | 13                                                  | .1                                                 | 7.5                                            | 92                                                                 | 84                                                             |
| JUL<br>13... | 0                                                      | 8.3                                          | 2.8                                                  | 10                                           | 2.6                                                 | 33                                                | 3.0                                           | 14                                                  | .1                                                 | 10                                             | 92                                                                 | 71                                                             |
| SEP<br>03... | 0                                                      | 16                                           | 5.7                                                  | 23                                           | 4.2                                                 | 71                                                | <5.0                                          | 32                                                  | .2                                                 | 12                                             | 144                                                                | 141                                                            |

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>SUS-<br>PENDED<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|
| OCT<br>22... | --                                                   | .09                                                           | --                                                   | .20                                                           | 1.5                                                                | 1.8                                                               | .51                                         | .48                                                  | --                                            | 15                                                     | 1.3                                                             |
| JAN<br>13... | --                                                   | .47                                                           | --                                                   | .32                                                           | 1.2                                                                | 1.2                                                               | .22                                         | .12                                                  | 15                                            | --                                                     | --                                                              |
| MAR<br>02... | .26                                                  | .28                                                           | .23                                                  | .26                                                           | 1.9                                                                | 2.1                                                               | .65                                         | .46                                                  | --                                            | 17                                                     | 2.7                                                             |
| MAY<br>11... | .36                                                  | .30                                                           | .30                                                  | .27                                                           | 1.4                                                                | 1.2                                                               | .25                                         | .16                                                  | --                                            | 13                                                     | 2.0                                                             |
| JUL<br>13... | --                                                   | .30                                                           | .26                                                  | .22                                                           | 1.1                                                                | 1.2                                                               | .24                                         | .10                                                  | --                                            | 9.2                                                    | .2                                                              |
| SEP<br>03... | .19                                                  | .10                                                           | .12                                                  | .14                                                           | 1.0                                                                | .91                                                               | .18                                         | .11                                                  | 7.4                                           | --                                                     | --                                                              |

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

E Estimated.

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

## MERMENTAU RIVER BASIN

08012150 MERMENTAU RIVER AT MERMENTAU, LA--Continued

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

| DATE         | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS RA) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS RA) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) |
|--------------|-------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|
| OCT<br>22... | 3                                   | 3                                            | 100                                                     | 100                                          | 1                                                       | 2                                            | 0                                                              | 0                                                   | 0                                                       | <3                                           |
| MAR<br>02... | 3                                   | 1                                            | 200                                                     | 70                                           | 2                                                       | 1                                            | 10                                                             | 0                                                   | 1                                                       | <3                                           |
| MAY<br>11... | 3                                   | 2                                            | 200                                                     | 70                                           | 1                                                       | <1                                           | 0                                                              | 0                                                   | 2                                                       | <3                                           |
| JUL<br>13... | 4                                   | 2                                            | 100                                                     | 90                                           | 0                                                       | <1                                           | 10                                                             | 10                                                  | 1                                                       | <3                                           |

| DATE         | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PR) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PR) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) |
|--------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|
| OCT<br>22... | 13                                                      | 8                                            | 1200                                                  | 320                                        | 5                                                     | 3                                          | 230                                                             | 210                                                  | .1                                                      |
| MAR<br>02... | 35                                                      | 20                                           | 4000                                                  | 330                                        | 20                                                    | 1                                          | 80                                                              | 40                                                   | --                                                      |
| MAY<br>11... | 6                                                       | 6                                            | 2800                                                  | 210                                        | 11                                                    | 3                                          | 120                                                             | 60                                                   | .2                                                      |
| JUL<br>13... | 7                                                       | 4                                            | 2300                                                  | 370                                        | 3                                                     | 3                                          | 110                                                             | 90                                                   | .3                                                      |

| DATE         | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AG) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| OCT<br>22... | .6                                           | 6                                                       | 0                                            | 0                                                              | 0                                                   | 0                                                       | 0                                            | --                                                    | 30                                         |
| MAR<br>02... | --                                           | 6                                                       | 4                                            | 0                                                              | 0                                                   | 0                                                       | 0                                            | 100                                                   | 60                                         |
| MAY<br>11... | .1                                           | 12                                                      | 2                                            | 0                                                              | 0                                                   | 0                                                       | 0                                            | --                                                    | 30                                         |
| JUL<br>13... | .2                                           | 5                                                       | 3                                            | 0                                                              | 0                                                   | 0                                                       | 0                                            | 40                                                    | 20                                         |

| DATE         | PHYTO-<br>PLANK-<br>TON,<br>TOTAL<br>(CELLS<br>PER ML) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SEDI-<br>MENT,<br>CHARGE,<br>SUS-<br>PENDED<br>(T/DAY) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|--------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------|
| OCT<br>22... | 1500                                                   | 76                                         | 390                                                    | 86                                                            |
| JAN<br>13... | --                                                     | 102                                        | E.00                                                   | 86                                                            |
| MAR<br>02... | 800                                                    | 197                                        | E.00                                                   | 93                                                            |
| MAY<br>11... | --                                                     | 118                                        | 1880                                                   | 97                                                            |
| JUL<br>13... | 77                                                     | 70                                         | 868                                                    | 82                                                            |
| SEP<br>03... | --                                                     | 56                                         | 25                                                     | 90                                                            |

&lt; Actual value is known to be less than the value shown.

E Estimated.

## MERMENTAU RIVER BASIN

197

08012150 MERMENTAU RIVER AT MERMENTAU, LA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 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   | 613 | 235 | --- | 128 | 233 | 114 | 106 | 251 | 168 | 191 | 254 | 246 |
| 2   | 642 | 236 | --- | 128 | 275 | 112 | 180 | 271 | 160 | 179 | 256 | 245 |
| 3   | 538 | 236 | --- | 129 | 280 | 118 | 101 | 268 | 163 | 224 | 235 | 244 |
| 4   | 484 | 233 | --- | 130 | 289 | 110 | 85  | 270 | 164 | 150 | 197 | 240 |
| 5   | 476 | 227 | --- | 132 | 324 | 113 | 109 | 459 | 168 | 149 | 190 | 237 |
| 6   | 427 | 232 | --- | 131 | 281 | 144 | --- | 213 | 303 | 156 | 211 | 236 |
| 7   | 423 | 234 | --- | 131 | 120 | 144 | 117 | 191 | 304 | 121 | 229 | 237 |
| 8   | 423 | --- | --- | 132 | 75  | 168 | 122 | 156 | 161 | 117 | 205 | 240 |
| 9   | 417 | 233 | --- | 133 | --- | 165 | 129 | 118 | --- | 107 | 199 | 240 |
| 10  | 437 | 233 | --- | 134 | --- | 178 | 149 | 116 | 141 | 100 | 239 | 243 |
| 11  | 420 | 235 | --- | 136 | --- | 162 | 137 | 131 | 133 | 102 | 243 | 243 |
| 12  | --- | 239 | --- | 138 | --- | 161 | 136 | 119 | 100 | 122 | 268 | 248 |
| 13  | 403 | 241 | --- | 136 | --- | 161 | 166 | 116 | 86  | 123 | 264 | 248 |
| 14  | 401 | 241 | --- | 138 | --- | --- | 192 | 118 | 86  | 127 | 263 | 251 |
| 15  | 397 | 242 | --- | 140 | --- | --- | 223 | 138 | 88  | 124 | 262 | 255 |
| 16  | 402 | 243 | --- | 142 | 81  | 159 | --- | 161 | 90  | 147 | --- | 253 |
| 17  | 412 | 244 | --- | 144 | 84  | 159 | 224 | 162 | 87  | 160 | 256 | 248 |
| 18  | 462 | 248 | 108 | 143 | 87  | 155 | --- | 163 | 82  | 166 | 250 | 245 |
| 19  | 304 | 249 | 112 | 147 | 89  | --- | --- | 180 | 78  | 169 | 249 | 248 |
| 20  | 211 | 248 | 119 | 145 | 94  | 159 | 244 | 179 | 69  | 167 | 239 | --- |
| 21  | 213 | 250 | --- | 151 | 101 | 158 | 209 | 182 | 68  | 184 | 237 | --- |
| 22  | 166 | 249 | 122 | 165 | 97  | 157 | 206 | 181 | 77  | 173 | 240 | 257 |
| 23  | 190 | 252 | 122 | 174 | 103 | 159 | 202 | 183 | 82  | 168 | 241 | 257 |
| 24  | 204 | 232 | 118 | 188 | 106 | 157 | 229 | --- | 88  | 174 | 238 | 259 |
| 25  | 223 | 261 | 124 | 195 | 107 | 155 | 239 | 176 | 89  | 190 | --- | 260 |
| 26  | 227 | 291 | 126 | 203 | 111 | 154 | 247 | 180 | 94  | 191 | 242 | 279 |
| 27  | 228 | 220 | 126 | 197 | 111 | 152 | 267 | 181 | 161 | 191 | 244 | 280 |
| 28  | 229 | 192 | 127 | --- | 112 | 149 | 264 | 183 | 161 | 197 | 245 | 288 |
| 29  | 234 | 209 | --- | 218 | --- | 150 | 251 | 174 | 186 | 223 | 247 | 288 |
| 30  | 234 | 204 | 128 | 202 | --- | 154 | 245 | 165 | 190 | 218 | 249 | 295 |
| 31  | 235 | --- | 128 | 256 | --- | 157 | --- | 167 | --- | 211 | 245 | --- |
| MAX | 642 | 291 | --- | 256 | 324 | 178 | 267 | 459 | 304 | 224 | 268 | 295 |
| MIN | 190 | 192 | --- | 128 | 75  | 110 | 85  | 116 | 68  | 100 | 190 | 236 |

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   | 27.0 | ---  | ---  | 11.5 | 13.5 | 16.5 | 17.5 | 24.5 | 26.0 | 28.5 | 29.5 | 29.0 |
| 2   | 27.0 | 18.0 | ---  | 11.0 | 10.0 | 15.0 | 18.5 | 24.0 | 27.0 | 28.0 | 29.5 | 29.0 |
| 3   | 25.0 | 18.0 | ---  | 10.5 | 9.5  | 15.0 | 20.0 | 24.0 | 26.5 | 27.0 | 30.0 | 29.0 |
| 4   | 26.0 | 18.5 | ---  | 12.0 | 10.0 | 16.0 | 21.0 | 24.0 | 27.0 | 27.0 | 30.0 | 28.5 |
| 5   | 24.5 | 18.0 | ---  | 10.0 | 10.0 | 15.0 | 20.0 | 23.0 | 26.5 | 27.0 | 30.0 | 29.0 |
| 6   | 24.0 | 18.0 | ---  | 10.0 | 10.0 | 15.0 | ---  | 22.5 | 27.0 | 26.5 | 29.0 | ---  |
| 7   | 23.0 | 18.5 | ---  | 11.0 | 9.0  | 16.0 | 20.5 | 22.0 | 27.0 | 26.0 | 29.0 | ---  |
| 8   | 23.5 | ---  | ---  | 10.5 | 9.0  | 16.0 | 20.0 | 21.5 | 28.0 | 26.0 | 29.0 | 28.0 |
| 9   | 23.0 | 19.5 | ---  | 11.0 | ---  | 14.5 | 21.0 | 21.0 | ---  | 26.5 | 28.0 | 28.0 |
| 10  | 23.5 | 19.5 | ---  | 12.0 | ---  | 15.0 | 21.0 | 21.0 | 28.0 | 27.0 | 28.5 | 27.0 |
| 11  | 24.5 | 19.5 | ---  | 11.0 | ---  | 17.0 | 22.0 | 21.0 | 27.0 | 27.0 | 29.0 | 28.0 |
| 12  | ---  | 18.0 | ---  | 10.0 | ---  | 16.0 | 23.0 | 21.0 | 25.0 | 27.0 | 29.0 | 28.0 |
| 13  | 23.0 | 18.0 | ---  | 10.0 | ---  | 15.0 | 23.0 | 21.0 | 26.0 | 27.0 | 29.0 | 28.0 |
| 14  | 23.0 | 19.5 | ---  | 11.0 | ---  | ---  | 23.0 | 21.0 | 26.0 | 27.0 | 29.0 | 28.0 |
| 15  | 23.5 | 19.0 | ---  | 11.0 | ---  | ---  | 22.0 | 21.0 | 27.0 | 27.5 | 29.0 | ---  |
| 16  | 23.5 | 19.0 | ---  | 10.0 | 10.0 | 16.0 | ---  | 21.0 | 27.0 | 28.0 | ---  | 28.0 |
| 17  | 24.0 | 17.5 | ---  | 10.0 | 12.5 | 16.0 | 23.0 | 21.0 | 26.0 | 28.5 | 30.0 | 27.0 |
| 18  | 24.5 | 17.0 | 14.0 | 9.5  | 11.0 | 17.0 | ---  | 23.0 | 27.0 | 29.0 | 30.0 | 27.0 |
| 19  | 23.5 | 16.5 | 13.0 | 10.0 | 12.0 | ---  | ---  | 24.5 | 27.0 | 29.0 | 30.0 | 27.0 |
| 20  | 22.0 | 16.0 | 14.0 | 9.5  | 14.0 | 16.0 | 23.5 | 22.0 | 27.0 | 29.0 | 28.5 | ---  |
| 21  | 21.0 | 16.0 | ---  | 9.5  | 15.5 | 16.0 | 24.5 | 22.5 | 27.0 | 29.0 | 29.0 | ---  |
| 22  | 20.0 | 17.0 | 11.0 | 9.0  | 15.5 | 16.5 | 24.5 | 23.5 | 23.0 | ---  | 29.0 | 25.5 |
| 23  | 20.0 | 17.0 | 12.0 | 9.5  | 14.0 | 16.0 | 24.5 | 24.5 | 24.5 | ---  | 29.0 | 25.5 |
| 24  | 20.0 | 16.0 | 13.0 | 9.5  | 14.0 | 16.0 | 23.0 | ---  | 27.0 | 29.5 | 29.0 | 25.5 |
| 25  | 19.0 | 15.0 | 10.5 | 11.0 | 14.0 | 16.0 | 23.0 | 24.0 | 27.5 | 29.0 | ---  | 25.5 |
| 26  | 19.0 | 14.0 | 10.5 | 10.0 | 14.0 | 16.5 | 23.0 | 24.0 | 27.0 | 29.5 | 29.0 | 26.0 |
| 27  | 20.0 | 12.0 | 11.0 | 11.0 | 14.5 | 17.0 | 23.0 | 25.5 | 27.5 | 29.0 | 29.0 | 26.0 |
| 28  | 19.5 | ---  | 11.0 | ---  | 16.5 | 18.0 | 24.0 | 26.0 | 27.5 | 28.5 | 29.0 | 26.0 |
| 29  | 18.0 | 10.5 | ---  | 11.0 | ---  | 18.0 | 24.0 | 26.5 | 28.0 | 29.0 | 29.0 | 27.0 |
| 30  | 18.0 | 12.0 | 11.0 | 12.0 | ---  | 18.5 | 25.0 | 27.0 | 28.0 | 29.0 | 29.0 | 26.5 |
| 31  | 18.0 | ---  | 11.0 | 10.0 | ---  | 19.0 | ---  | 27.0 | ---  | 29.0 | 29.0 | ---  |
| MAX | 27.0 | 19.5 | ---  | 12.0 | 16.5 | 19.0 | 25.0 | 27.0 | 28.0 | 29.5 | 30.0 | 29.0 |
| MIN | 18.0 | 10.5 | ---  | 9.0  | 9.0  | 14.5 | 17.5 | 21.0 | 23.0 | 26.0 | 28.0 | 25.5 |

## MERMENTAU RIVER BASIN

08012150 MERMENTAU RIVER AT MERMENTAU, LA--Continued

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO JULY 1981

| DATE<br>TIME        | OCT 22,80<br>1200 | MAR 2,81<br>1100 | JUL 13,81<br>1015 |
|---------------------|-------------------|------------------|-------------------|
| TOTAL CELLS/ML      | 1500              | 800              | 77                |
| DIVERSITY: DIVISION | 1.7               | 1.2              | 1.0               |
| ..CLASS             | 1.7               | 1.2              | 1.0               |
| ..ORDER             | 2.5               | 1.9              | 1.0               |
| ...FAMILY           | 2.8               | 2.4              | 1.5               |
| ....GENUS           | 3.2               | 2.7              | 1.5               |

| ORGANISM                      | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| CHLOROPHYTA (GREEN ALGAE)     |              |              |              |              |              |              |
| ..CHLOROPHYCEAE               |              |              |              |              |              |              |
| ...CHLOROCOCCALES             |              |              |              |              |              |              |
| ....OCYSTACEAE                |              |              |              |              |              |              |
| ....ANKISTRONESMUS            | 100          | 7            | 42           | 5            | --           | -            |
| ....DICTYOSPHAERIUM           | 52           | 4            | 150#         | 19           | --           | -            |
| ....TUEHARIA                  | --           | -            | --           | -            | 13#          | 17           |
| ...SCENEDESMACEAE             |              |              |              |              |              |              |
| ....SCENEDESMUS               | 52           | 4            | 140#         | 18           | 26#          | 33           |
| ....TETRASTRUM                | 52           | 4            | --           | -            | --           | -            |
| ..VOLVOCALES                  |              |              |              |              |              |              |
| ...CHLAMYDOMONADACEAE         |              |              |              |              |              |              |
| ....CARTERIA                  | 13           | 1            | --           | -            | --           | -            |
| ....CHLAMYDOMONAS             | 13           | 1            | 200#         | 25           | --           | -            |
| CHRYSOPHYTA                   |              |              |              |              |              |              |
| ..BACILLARIOPHYCEAE           |              |              |              |              |              |              |
| ...CENTRALES                  |              |              |              |              |              |              |
| ...COSCINODISCEAE             |              |              |              |              |              |              |
| ....CYCLOTELLA                | 140          | 10           | 42           | 5            | --           | -            |
| ....MELOSIRA                  | 220#         | 15           | --           | -            | --           | -            |
| ...PENNALES                   |              |              |              |              |              |              |
| ...ACHNANTHACEAE              |              |              |              |              |              |              |
| ....ACHNANTHES                | --           | -            | 14           | 2            | --           | -            |
| ...FRAGILARIACEAE             |              |              |              |              |              |              |
| ....SYNEORA                   | 13           | 1            | --           | -            | --           | -            |
| ...NAVICULACEAE               |              |              |              |              |              |              |
| ....NAVICULA                  | 26           | 2            | --           | -            | --           | -            |
| ...NITZSCHACEAE               |              |              |              |              |              |              |
| ....NITZSCHIA                 | 78           | 5            | 14           | 2            | --           | -            |
| CYANOPHYTA (BLUE-GREEN ALGAE) |              |              |              |              |              |              |
| ..CYANOPHYCEAE                |              |              |              |              |              |              |
| ...CHROOCOCCALES              |              |              |              |              |              |              |
| ....CHROOCOCCACEAE            |              |              |              |              |              |              |
| ....ANACYSTIS                 | 270#         | 19           | --           | -            | 39#          | 50           |
| ...HORMOGONALES               |              |              |              |              |              |              |
| ...OSCILLATORIACEAE           |              |              |              |              |              |              |
| ....OSCILLATORIA              | 350#         | 24           | --           | -            | --           | -            |
| EUGLENOPHYTA (EUGLENOIDS)     |              |              |              |              |              |              |
| ..EUGLENOPHYCEAE              |              |              |              |              |              |              |
| ...EUGLENALES                 |              |              |              |              |              |              |
| ....EUGLENACEAE               |              |              |              |              |              |              |
| ....EUGLENA                   | 39           | 3            | 28           | 4            | --           | -            |
| ....TRACHELOMONAS             | 26           | 2            | 170#         | 21           | --           | -            |

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

## MERMENTAU RIVER BASIN

199

08012470 BAYOU LACASSINE NEAR LAKE ARTHUR, LA

LOCATION.--Lat 30°04'12", long 92°52'43", in SE1/4SE1/4 sec.21, T.11 S., R.5 W., Jefferson Davis Parish, Hydrologic Unit 08080202, at bridge on State Highway 14, 12.9 mi (20.8 km) west of town of Lake Arthur, and 16.8 mi (27.0 km) upstream from Intracoastal Waterway.

DRAINAGE AREA.--299 mi<sup>2</sup> (774 km<sup>2</sup>).

PERIOD OF RECORD.--Annual peaks, water years 1969-74, October 1974 to current year (gage height only).

GAGE.--Water-stage recorder. Datum of gage is 7.00 ft (2.134 m) below National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development, Office of Highways); prior to Oct. 1, 1974, nonrecording gage at same site at datum 0.85 ft (0.259 m) lower.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.72 ft (3.877 m) May 19; minimum, 7.25 ft (2.210 m) Mar. 18, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.60 ft (3.231 m) June 14; minimum, 7.25 ft (2.210 m) Mar 18.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
INSTANTANEOUS OBSERVATIONS AT 0800

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN   | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1    | 8.30 | 8.09 | 8.62 | 7.87 | 8.15 | 8.18 | 7.82 | 7.60 | 8.13  | 8.84 | 8.65 | 8.39 |
| 2    | 8.39 | 8.04 | 8.52 | 7.80 | 7.91 | 8.00 | 7.90 | 7.55 | 8.13  | 8.80 | 8.57 | 8.30 |
| 3    | 8.23 | 8.05 | 8.36 | 7.95 | 7.99 | 8.12 | 8.16 | 7.64 | 8.14  | 9.09 | 8.60 | 8.39 |
| 4    | 8.27 | 7.99 | 8.42 | 7.85 | 8.08 | 8.38 | 8.23 | 7.69 | 8.24  | 9.15 | 8.58 | 8.44 |
| 5    | 8.15 | 7.93 | 8.47 | 7.81 | 8.11 | 7.78 | 7.96 | 7.70 | 8.65  | 9.23 | 8.57 | 8.43 |
| 6    | 8.14 | 7.96 | 8.45 | 7.97 | 8.46 | 8.03 | 7.85 | 7.70 | 8.88  | 9.57 | 8.54 | 8.39 |
| 7    | 8.14 | 8.00 | 8.52 | 7.83 | 8.85 | 8.10 | 7.96 | 7.85 | 8.91  | 9.83 | 8.51 | 8.39 |
| 8    | 8.10 | 8.03 | 8.56 | 7.98 | 8.99 | 8.15 | 8.04 | 8.08 | 8.84  | 9.85 | 8.41 | 8.37 |
| 9    | 8.11 | 8.00 | 8.61 | 7.92 | 8.94 | 8.02 | 8.07 | 8.18 | 8.73  | 9.72 | 8.40 | 8.30 |
| 10   | 8.10 | 7.95 | 8.52 | 7.82 | 9.19 | 8.07 | 7.94 | 8.20 | 8.73  | 9.54 | 8.41 | 8.29 |
| 11   | 8.07 | 7.93 | 8.63 | 7.89 | 8.79 | 8.01 | 8.08 | 8.20 | 9.08  | 9.43 | 8.39 | 8.32 |
| 12   | 8.03 | 7.95 | 8.63 | 7.77 | 8.84 | 8.06 | 7.95 | 8.32 | 10.00 | 9.40 | 8.33 | 8.37 |
| 13   | 8.02 | 7.97 | 8.57 | 7.92 | 8.74 | 8.05 | 7.95 | 8.40 | 10.48 | 9.37 | 8.35 | 8.36 |
| 14   | 8.12 | 8.06 | 8.47 | 7.91 | 8.65 | 7.96 | 7.86 | 8.42 | 10.56 | 9.29 | 8.35 | 8.37 |
| 15   | 8.13 | 7.90 | 8.45 | 7.85 | 8.58 | 8.07 | 7.76 | 8.28 | 10.46 | 9.19 | 8.30 | 8.56 |
| 16   | 8.14 | 7.85 | 8.35 | 7.80 | 8.55 | 7.85 | 7.85 | 8.45 | 10.26 | 9.09 | 8.28 | 8.53 |
| 17   | 8.20 | 7.89 | 8.29 | 7.73 | 8.51 | 7.94 | 7.90 | 8.57 | 9.98  | 8.99 | 8.27 | 8.35 |
| 18   | 8.23 | 7.78 | 8.36 | 7.78 | 8.48 | 7.97 | 7.90 | 8.62 | 9.70  | 8.91 | 8.22 | 8.24 |
| 19   | 8.50 | 7.97 | 8.37 | 7.84 | 8.45 | 7.44 | 7.87 | 8.38 | 9.51  | 8.85 | 8.12 | 8.33 |
| 20   | 8.53 | 8.06 | 7.87 | 7.72 | 8.39 | 7.65 | 7.74 | 8.04 | 9.36  | 8.77 | 8.05 | 8.36 |
| 21   | 8.52 | 8.02 | 7.87 | 7.86 | 8.39 | 7.78 | 7.65 | 8.14 | 9.23  | 8.63 | 8.05 | 8.44 |
| 22   | 8.48 | 8.03 | 8.05 | 7.90 | 8.36 | 7.77 | 7.72 | 8.18 | 9.15  | 8.49 | 7.94 | 8.41 |
| 23   | 8.47 | 8.26 | 8.21 | 7.91 | 8.22 | 7.53 | 7.72 | 8.18 | 9.01  | 8.40 | 8.12 | 8.33 |
| 24   | 8.43 | 8.30 | 8.18 | 7.94 | 8.12 | 7.66 | 7.64 | 8.11 | 8.96  | 8.33 | 8.12 | 8.28 |
| 25   | 8.26 | 8.30 | 7.75 | 7.93 | 8.15 | 7.67 | 7.68 | 8.13 | 8.94  | 8.42 | 8.14 | 8.28 |
| 26   | 8.34 | 8.31 | 8.02 | 7.95 | 8.15 | 7.67 | 7.71 | 8.04 | 8.86  | 8.46 | 8.09 | 8.29 |
| 27   | 8.47 | 8.49 | 8.03 | 7.96 | 8.15 | 7.79 | 7.71 | 7.96 | 8.96  | 8.51 | 8.11 | 8.27 |
| 28   | 8.37 | 8.55 | 7.97 | 7.91 | 8.17 | 7.87 | 7.75 | 7.96 | 8.94  | 8.57 | 8.14 | 8.22 |
| 29   | 8.00 | 8.60 | 7.95 | 8.10 | ---  | 8.13 | 7.68 | 7.99 | 8.88  | 8.56 | 8.09 | 8.20 |
| 30   | 8.02 | 8.59 | 7.75 | 8.02 | ---  | 8.05 | 7.61 | 7.95 | 8.88  | 8.52 | 8.25 | 8.21 |
| 31   | 8.02 | ---  | 7.89 | 7.91 | ---  | 7.93 | ---  | 8.06 | ---   | 8.62 | 8.30 | ---  |
| MEAN | 8.23 | 8.10 | 8.28 | 7.88 | 8.44 | 7.93 | 7.86 | 8.08 | 9.15  | 8.98 | 8.30 | 8.35 |
| MAX  | 8.53 | 8.60 | 8.63 | 8.10 | 9.19 | 8.38 | 8.23 | 8.62 | 10.56 | 9.85 | 8.65 | 8.56 |
| MIN  | 8.00 | 7.78 | 7.75 | 7.72 | 7.91 | 7.44 | 7.61 | 7.55 | 8.13  | 8.33 | 7.94 | 8.20 |



## CALCASIEU RIVER BASIN

08016800 BEAR HEAD CREEK NEAR STARKS, LA

LOCATION.--Lat 30°19'59", long 93°37'44", in sec.30, T.8 S., R.12 W., Calcasieu Parish, Hydrologic Unit 08080205, near right bank on downstream side of bridge on State Highway 12, 2.4 mi (3.9 km) northeast of Starks, and 3.5 mi (5.6 km) downstream from Green Island Marsh Creek.

DRAINAGE AREA.--177 mi<sup>2</sup> (458 km<sup>2</sup>).

PERIOD OF RECORD.--Annual maximums, water years 1954-56. March 1956 to current year.

REVISED RECORDS.--WSP 2122: 1958(M).

GAGE.--Water-stage recorder. Datum of gage is 16.34 ft (4.980 m) National Geodetic Vertical Datum of 1929. Oct. 13, 1953 to Mar. 8, 1956, crest-stage gage at site 100 ft (30 m) downstream at same datum.

REMARKS.--Records good. Records of water temperature for water year 1981 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--25 years, 232 ft<sup>3</sup>/s (6.570 m<sup>3</sup>/s), 17.80 in/yr (452 mm/yr), 168,100 acre-ft/yr (207 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft<sup>3</sup>/s (326 m<sup>3</sup>/s) May 18, 1980, gage height, 17.70 ft (5.395 m); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,440 ft<sup>3</sup>/s (69.1 m<sup>3</sup>/s) July 7, gage height, 14.28 ft (4.353 m); minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY               | OCT       | NOV    | DEC    | JAN      | FEB   | MAR       | APR    | MAY     | JUN       | JUL      | AUG          | SEP   |
|-------------------|-----------|--------|--------|----------|-------|-----------|--------|---------|-----------|----------|--------------|-------|
| 1                 | 7.5       | 1.5    | 43     | 3.3      | 47    | 13        | 6.2    | 8.4     | .58       | 33       | 25           | .05   |
| 2                 | 3.2       | 1.2    | 18     | 3.0      | 129   | 12        | 5.9    | 5.5     | .43       | 82       | 41           | .11   |
| 3                 | 1.6       | 1.1    | 20     | 2.8      | 241   | 11        | 7.0    | 3.6     | 49        | 133      | 46           | .49   |
| 4                 | 1.0       | 2.8    | 13     | 2.7      | 408   | 43        | 11     | 2.7     | 131       | 200      | 17           | 1.1   |
| 5                 | 1.2       | 3.4    | 9.4    | 2.5      | 430   | 160       | 10     | 2.4     | 507       | 480      | 15           | .86   |
| 6                 | 1.1       | 2.7    | 6.9    | 3.0      | 591   | 352       | 8.0    | 2.2     | 1010      | 1450     | 18           | .53   |
| 7                 | .81       | 2.1    | 5.2    | 5.0      | 950   | 557       | 6.7    | 1.7     | 1350      | 2340     | 7.9          | .35   |
| 8                 | .61       | 1.7    | 4.1    | 6.2      | 995   | 627       | 6.1    | 1.7     | 1180      | 2180     | 4.7          | .28   |
| 9                 | .53       | 1.4    | 32     | 8.6      | 773   | 607       | 5.5    | 2.1     | 1050      | 1890     | 2.4          | 6.9   |
| 10                | .49       | 1.2    | 152    | 7.9      | 553   | 558       | 4.7    | 6.5     | 963       | 1700     | 1.5          | 7.9   |
| 11                | .40       | 1.1    | 381    | 8.0      | 404   | 414       | 4.0    | 7.7     | 1140      | 1640     | 1.6          | 4.3   |
| 12                | .32       | .99    | 561    | 12       | 408   | 183       | 3.3    | 5.6     | 1220      | 1380     | 1.0          | 2.5   |
| 13                | .24       | .92    | 552    | 11       | 440   | 67        | 2.7    | 4.0     | 1240      | 1080     | .69          | 1.6   |
| 14                | .16       | .91    | 481    | 9.4      | 385   | 39        | 2.2    | 3.7     | 1080      | 614      | .52          | 2.2   |
| 15                | .09       | .85    | 376    | 8.2      | 279   | 29        | 1.8    | 2.7     | 820       | 310      | .44          | 2.6   |
| 16                | .04       | 2.3    | 192    | 7.2      | 158   | 23        | 1.5    | 3.9     | 567       | 218      | .42          | 5.1   |
| 17                | .02       | 8.1    | 66     | 6.1      | 71    | 21        | 1.3    | 6.1     | 382       | 160      | .80          | 11    |
| 18                | 10        | 35     | 31     | 5.2      | 45    | 20        | 1.2    | 4.3     | 166       | 97       | .77          | 9.0   |
| 19                | 63        | 66     | 21     | 5.9      | 35    | 17        | 1.0    | 4.0     | 54        | 50       | .57          | 5.9   |
| 20                | 119       | 86     | 15     | 64       | 29    | 14        | .89    | 2.9     | 25        | 29       | .43          | 3.4   |
| 21                | 138       | 87     | 11     | 166      | 25    | 12        | .80    | 8.6     | 17        | 18       | .34          | 2.1   |
| 22                | 141       | 57     | 8.9    | 299      | 26    | 12        | .69    | 11      | 11        | 13       | .28          | 1.4   |
| 23                | 103       | 41     | 7.5    | 378      | 24    | 11        | 1.9    | 7.5     | 16        | 8.9      | .22          | 1.1   |
| 24                | 45        | 44     | 6.5    | 322      | 21    | 11        | 15     | 4.7     | 32        | 6.4      | .16          | .81   |
| 25                | 20        | 46     | 5.6    | 220      | 18    | 11        | 75     | 3.1     | 33        | 4.9      | .12          | .66   |
| 26                | 11        | 46     | 5.2    | 110      | 16    | 11        | 64     | 2.2     | 24        | 5.0      | .08          | .53   |
| 27                | 7.6       | 56     | 4.6    | 49       | 15    | 12        | 34     | 1.6     | 35        | 5.4      | .05          | .45   |
| 28                | 5.5       | 63     | 4.2    | 33       | 15    | 11        | 28     | 1.2     | 41        | 3.8      | .03          | .37   |
| 29                | 3.7       | 61     | 3.8    | 24       | ---   | 9.0       | 20     | .96     | 70        | 3.4      | .00          | .32   |
| 30                | 2.5       | 50     | 3.5    | 19       | ---   | 7.7       | 13     | .75     | 49        | 3.2      | .00          | .30   |
| 31                | 1.9       | ---    | 3.4    | 15       | ---   | 6.6       | ---    | .75     | ---       | 9.1      | .04          | ---   |
| TOTAL             | 690.51    | 772.27 | 3043.8 | 1817.0   | 7531  | 3881.3    | 343.38 | 124.06  | 13263.01  | 16147.1  | 187.06       | 74.21 |
| MEAN              | 22.3      | 25.7   | 98.2   | 58.6     | 269   | 125       | 11.4   | 4.00    | 442       | 521      | 6.03         | 2.47  |
| MAX               | 141       | 87     | 561    | 378      | 995   | 627       | 75     | 11      | 1350      | 2340     | 46           | 11    |
| MIN               | .02       | .85    | 3.4    | 2.5      | 15    | 6.6       | .69    | .75     | .43       | 3.2      | .00          | .05   |
| CFSM              | .13       | .15    | .56    | .33      | 1.52  | .71       | .06    | .02     | 2.50      | 2.94     | .03          | .01   |
| IN.               | .15       | .16    | .64    | .38      | 1.58  | .82       | .07    | .03     | 2.79      | 3.39     | .04          | .02   |
| AC-FT             | 1370      | 1530   | 6040   | 3600     | 14940 | 7700      | 681    | 246     | 26310     | 32030    | 371          | 147   |
| CAL YR 1980 TOTAL | 115260.02 |        |        | MEAN 315 |       | MAX 11100 |        | MIN .00 | CFSM 1.78 | IN 24.22 | AC-FT 228600 |       |
| WTR YR 1981 TOTAL | 47874.70  |        |        | MEAN 131 |       | MAX 2340  |        | MIN .00 | CFSM .74  | IN 10.06 | AC-FT 94960  |       |

08016800 BEAR HEAD CREEK NEAR STARKS, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY  | OCT   | NOV  | DEC   | JAN   | FEB   | MAR   | APR  | MAY  | JUN   | JUL   | AUG  | SEP  |
|------|-------|------|-------|-------|-------|-------|------|------|-------|-------|------|------|
| 1    | 7.85  | 7.49 | 8.83  | 7.73  | 8.86  | 8.02  | 7.74 | 7.80 | 7.21  | 8.50  | 8.36 | 7.05 |
| 2    | 7.69  | 7.45 | 8.28  | 7.71  | 10.20 | 7.97  | 7.72 | 7.66 | 7.17  | 9.53  | 8.73 | 7.08 |
| 3    | 7.58  | 7.44 | 8.34  | 7.70  | 11.02 | 7.92  | 7.78 | 7.55 | 8.72  | 10.27 | 8.84 | 7.25 |
| 4    | 7.51  | 7.60 | 8.15  | 7.69  | 11.61 | 8.68  | 7.92 | 7.49 | 10.17 | 10.83 | 8.15 | 7.40 |
| 5    | 7.54  | 7.65 | 8.02  | 7.68  | 11.66 | 10.50 | 7.90 | 7.47 | 11.80 | 11.72 | 8.08 | 7.36 |
| 6    | 7.53  | 7.61 | 7.92  | 7.71  | 12.02 | 11.43 | 7.82 | 7.44 | 12.76 | 13.32 | 8.20 | 7.28 |
| 7    | 7.48  | 7.56 | 7.84  | 7.82  | 12.68 | 11.95 | 7.76 | 7.39 | 13.22 | 14.23 | 7.86 | 7.22 |
| 8    | 7.44  | 7.52 | 7.79  | 7.88  | 12.75 | 12.10 | 7.73 | 7.39 | 13.01 | 14.09 | 7.71 | 7.18 |
| 9    | 7.43  | 7.49 | 8.55  | 7.98  | 12.38 | 12.05 | 7.71 | 7.44 | 12.83 | 13.81 | 7.55 | 7.78 |
| 10   | 7.42  | 7.47 | 10.40 | 7.95  | 11.94 | 11.96 | 7.67 | 7.71 | 12.70 | 13.62 | 7.47 | 7.88 |
| 11   | 7.40  | 7.46 | 11.51 | 7.96  | 11.59 | 11.61 | 7.63 | 7.77 | 12.96 | 13.56 | 7.48 | 7.70 |
| 12   | 7.37  | 7.44 | 11.96 | 8.09  | 11.61 | 10.64 | 7.59 | 7.67 | 13.06 | 13.26 | 7.39 | 7.58 |
| 13   | 7.34  | 7.43 | 11.94 | 8.08  | 11.69 | 9.24  | 7.55 | 7.58 | 13.09 | 12.86 | 7.32 | 7.49 |
| 14   | 7.30  | 7.42 | 11.79 | 8.01  | 11.54 | 8.65  | 7.51 | 7.56 | 12.87 | 12.06 | 7.28 | 7.53 |
| 15   | 7.28  | 7.42 | 11.51 | 7.96  | 11.21 | 8.41  | 7.47 | 7.49 | 12.46 | 11.31 | 7.25 | 7.59 |
| 16   | 7.25  | 7.56 | 10.72 | 7.92  | 10.48 | 8.27  | 7.44 | 7.56 | 11.97 | 10.96 | 7.24 | 7.70 |
| 17   | 7.23  | 7.91 | 9.26  | 7.88  | 9.35  | 8.22  | 7.42 | 7.70 | 11.53 | 10.52 | 7.34 | 7.99 |
| 18   | 7.81  | 8.63 | 8.59  | 7.83  | 8.84  | 8.19  | 7.39 | 7.60 | 10.65 | 9.78  | 7.33 | 7.92 |
| 19   | 9.15  | 9.26 | 8.36  | 7.86  | 8.62  | 8.10  | 7.36 | 7.58 | 8.98  | 8.93  | 7.29 | 7.78 |
| 20   | 10.11 | 9.62 | 8.20  | 9.19  | 8.48  | 8.01  | 7.34 | 7.52 | 8.32  | 8.46  | 7.25 | 7.64 |
| 21   | 10.32 | 9.63 | 8.08  | 10.57 | 8.37  | 7.96  | 7.32 | 7.80 | 8.10  | 8.20  | 7.20 | 7.54 |
| 22   | 10.35 | 9.10 | 8.00  | 11.28 | 8.39  | 7.95  | 7.30 | 7.92 | 7.92  | 8.02  | 7.17 | 7.46 |
| 23   | 9.87  | 8.77 | 7.95  | 11.52 | 8.34  | 7.94  | 7.43 | 7.76 | 8.03  | 7.90  | 7.14 | 7.40 |
| 24   | 8.80  | 8.84 | 7.90  | 11.36 | 8.28  | 7.94  | 7.99 | 7.62 | 8.49  | 7.79  | 7.12 | 7.35 |
| 25   | 8.24  | 8.89 | 7.86  | 10.95 | 8.20  | 7.92  | 9.41 | 7.53 | 8.50  | 7.72  | 7.09 | 7.31 |
| 26   | 7.99  | 8.89 | 7.83  | 9.93  | 8.14  | 7.92  | 9.18 | 7.45 | 8.28  | 7.72  | 7.07 | 7.28 |
| 27   | 7.85  | 9.08 | 7.80  | 8.96  | 8.10  | 7.98  | 8.53 | 7.39 | 8.55  | 7.74  | 7.04 | 7.25 |
| 28   | 7.75  | 9.22 | 7.78  | 8.62  | 8.08  | 7.93  | 8.39 | 7.34 | 8.68  | 7.65  | 7.03 | 7.23 |
| 29   | 7.66  | 9.18 | 7.76  | 8.41  | ---   | 7.86  | 8.20 | 7.29 | 9.32  | 7.63  | 7.01 | 7.21 |
| 30   | 7.59  | 8.97 | 7.74  | 8.28  | ---   | 7.81  | 7.98 | 7.25 | 8.88  | 7.61  | 7.01 | 7.18 |
| 31   | 7.53  | ---  | 7.74  | 8.19  | ---   | 7.76  | ---  | 7.25 | ---   | 7.86  | 7.04 | ---  |
| MEAN | 7.99  | 8.20 | 8.85  | 8.60  | 10.16 | 9.00  | 7.81 | 7.55 | 10.34 | 10.24 | 7.49 | 7.45 |
| MAX  | 10.35 | 9.63 | 11.96 | 11.52 | 12.75 | 12.10 | 9.41 | 7.92 | 13.22 | 14.23 | 8.84 | 7.99 |
| MIN  | 7.23  | 7.42 | 7.74  | 7.68  | 8.08  | 7.76  | 7.30 | 7.25 | 7.17  | 7.61  | 7.01 | 7.05 |

## CALCASIEU RIVER BASIN

08017015 HOUSTON RIVER NEAR BUHLER, LA

LOCATION.--Lat 30°17'24", long 93°21'20", in SE1/4 sec.11, T.8 S., R.9 W., Louisiana Meridian, Calcasieu Parish, Hydrologic Unit 08080205, at bridge on State Highway 27, and 3.0 mi (4.8 km) south of Buhler.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1976 to current year.

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

| DATE      | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>CORAL<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) |
|-----------|------|---------------------------------------------------|---------------|-----------------------------|---------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| OCT 21... | 1545 | 50                                                | 5.7           | --                          | 60                                          | 20                           | 3.7                                 | 1.4                                                            | 250                                                            |
| NOV 13... | 1430 | 86                                                | 5.4           | 18.0                        | 120                                         | 10                           | 3.3                                 | 4.6                                                            | K80                                                            |
| DEC 04... | 1030 | 78                                                | 5.7           | 10.5                        | 120                                         | 40                           | 7.9                                 | 2.9                                                            | K80                                                            |
| JAN 13... | 1425 | 61                                                | 5.2           | 11.5                        | 20                                          | 15                           | 3.7                                 | 3.3                                                            | K90                                                            |
| FEB 02... | 1035 | 66                                                | 5.4           | 11.0                        | 100                                         | 30                           | 8.0                                 | 4.1                                                            | 200                                                            |
| MAR 02... | 1445 | 64                                                | 5.2           | 20.5                        | 80                                          | 35                           | 5.7                                 | --                                                             | 78                                                             |
| APR 09... | 1200 | 62                                                | 5.7           | 23.0                        | 120                                         | 20                           | 4.9                                 | 3.1                                                            | K70                                                            |
| MAY 11... | 1510 | 133                                               | 6.2           | 22.0                        | 200                                         | 50                           | .6                                  | --                                                             | K850                                                           |
| JUN 08... | 1105 | 38                                                | 5.3           | 26.5                        | 70                                          | 20                           | 3.3                                 | 3.8                                                            | 160                                                            |
| JUL 16... | 1045 | 34                                                | 4.5           | 27.5                        | 120                                         | 20                           | 3.3                                 | 2.3                                                            | K25                                                            |
| AUG 12... | 1515 | 169                                               | 5.8           | 28.5                        | 60                                          | 2.0                          | 4.0                                 | 4.2                                                            | K70                                                            |
| SEP 03... | 1300 | 83                                                | 6.1           | 27.0                        | 70                                          | 15                           | 2.1                                 | 1.8                                                            | K4600                                                          |

| DATE      | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>FIELD<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) |
|-----------|--------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|
| OCT 21... | 160                                                                | 10                                     | 3                                                      | 2.8                                          | .8                                                   | 4.4                                          | 1.8                                                 | 7                                               | 5.5                                           |
| NOV 13... | 200                                                                | 15                                     | 7                                                      | 4.0                                          | 1.2                                                  | 8.8                                          | 3.0                                                 | 8                                               | 8.0                                           |
| DEC 04... | K90                                                                | 13                                     | 5                                                      | 3.4                                          | 1.2                                                  | 7.7                                          | 2.0                                                 | 8                                               | 9.4                                           |
| JAN 13... | <10                                                                | 14                                     | 8                                                      | 3.2                                          | 1.4                                                  | 6.3                                          | 1.2                                                 | 6                                               | 6.5                                           |
| FEB 02... | 140                                                                | 23                                     | 15                                                     | 6.7                                          | 1.4                                                  | 6.0                                          | 1.2                                                 | 7                                               | 8.0                                           |
| MAR 02... | --                                                                 | 13                                     | 6                                                      | 3.1                                          | 1.3                                                  | 6.9                                          | 1.1                                                 | 7                                               | 7.8                                           |
| APR 09... | K48                                                                | 12                                     | 8                                                      | 2.7                                          | 1.2                                                  | 6.5                                          | 1.2                                                 | 4                                               | 9.2                                           |
| MAY 11... | --                                                                 | 23                                     | 1                                                      | 5.8                                          | 2.1                                                  | 16                                           | 3.7                                                 | 22                                              | 10                                            |
| JUN 08... | 3200                                                               | 10                                     | 6                                                      | 2.8                                          | .8                                                   | 3.5                                          | 1.4                                                 | 4                                               | 6.7                                           |
| JUL 16... | 4600                                                               | 9                                      | 4                                                      | 2.8                                          | .5                                                   | 3.4                                          | .9                                                  | 5                                               | 6.0                                           |
| AUG 12... | K170                                                               | 22                                     | 15                                                     | 3.6                                          | 3.1                                                  | 25                                           | 2.2                                                 | 7                                               | <5.0                                          |
| SEP 03... | 650                                                                | 16                                     | 1                                                      | 5.0                                          | .9                                                   | 8.0                                          | 2.6                                                 | 15                                              | 6.0                                           |

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

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

08017015 HOUSTON RIVER NEAR BUHLER, LA--Continued

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

| DATE      | CHLORIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUORIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SI02) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | NITROGEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITROGEN,<br>AMMONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOSPHORUS,<br>TOTAL<br>(MG/L<br>AS P) |
|-----------|------------------------------------------------|-----------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------|----------------------------------------|
| OCT 21... | 6.7                                            | .1                                            | 3.5                                               | 39                                                                 | 30                                                             | .08                                             | 1.1                                                          | .26                                    |
| NOV 13... | 13                                             | .1                                            | 2.9                                               | 73                                                                 | 46                                                             | .05                                             | 1.3                                                          | .11                                    |
| DEC 04... | 9.4                                            | .1                                            | 7.5                                               | 70                                                                 | 46                                                             | .20                                             | 1.6                                                          | .15                                    |
| JAN 13... | 8.7                                            | .0                                            | 5.6                                               | 67                                                                 | 37                                                             | .09                                             | 1.2                                                          | .08                                    |
| FEB 02... | 13                                             | .1                                            | 6.4                                               | 64                                                                 | 47                                                             | .00                                             | 1.1                                                          | .09                                    |
| MAR 02... | 11                                             | .0                                            | 6.6                                               | 68                                                                 | 42                                                             | .00                                             | 1.1                                                          | .10                                    |
| APR 09... | 9.3                                            | .0                                            | 5.2                                               | 65                                                                 | 37                                                             | .04                                             | 1.6                                                          | .08                                    |
| MAY 11... | 19                                             | .1                                            | 8.2                                               | 121                                                                | 78                                                             | .03                                             | 2.1                                                          | .31                                    |
| JUN 08... | 4.6                                            | .0                                            | 3.8                                               | --                                                                 | 26                                                             | .00                                             | 1.7                                                          | .12                                    |
| JUL 16... | 5.2                                            | .0                                            | 6.4                                               | --                                                                 | 28                                                             | .06                                             | 1.5                                                          | .05                                    |
| AUG 12... | 46                                             | .1                                            | 4.1                                               | 107                                                                | 93                                                             | .01                                             | 1.1                                                          | .10                                    |
| SEP 03... | 9.8                                            | .1                                            | 5.1                                               | 65                                                                 | 46                                                             | .02                                             | 1.3                                                          | .15                                    |

| DATE      | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | ARSENIC<br>TOTAL<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS AS) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CADMIUM<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CD) | CHROMIUM,<br>HEXAVALENT,<br>DIS-<br>(UG/L<br>AS CR) | CHROMIUM,<br>HEXAVALENT,<br>DIS-<br>(UG/L<br>AS CR) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | COPPER,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | IRON,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|-----------|----------------------------------------------|---------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------|--------------------------------------------|
| OCT 21... | 1                                            | 0                                                                   | <1                                           | 1                                                                    | 13                                                  | 0                                                   | 8                                            | 7                                                                    | 220                                        | 1900                                                               | 3                                          |
| NOV 13... | --                                           | --                                                                  | --                                           | --                                                                   | --                                                  | --                                                  | --                                           | --                                                                   | 440                                        | --                                                                 | --                                         |
| JAN 13... | 1                                            | --                                                                  | <1                                           | --                                                                   | --                                                  | 0                                                   | 5                                            | --                                                                   | 440                                        | --                                                                 | 7                                          |
| APR 09... | 0                                            | --                                                                  | <1                                           | --                                                                   | --                                                  | 0                                                   | 4                                            | --                                                                   | 540                                        | --                                                                 | 0                                          |
| JUL 16... | 1                                            | --                                                                  | 1                                            | --                                                                   | --                                                  | 0                                                   | 11                                           | --                                                                   | 570                                        | --                                                                 | 2                                          |
| SEP 03... | --                                           | --                                                                  | --                                           | --                                                                   | --                                                  | --                                                  | --                                           | --                                                                   | 230                                        | --                                                                 | --                                         |

| DATE      | LEAD,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS PB) | MANGANESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MANGANESE,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | MERCURY<br>TOTAL<br>RECOV.<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS HG) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | ZINC,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS ZN) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CYANIDE<br>TOTAL<br>(MG/L<br>AS CN) | PHENOLS<br>(UG/L) | PCB,<br>TOTAL<br>(UG/L) |
|-----------|--------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------|-------------------------------------|-------------------|-------------------------|
| OCT 21... | 10                                                                 | 40                                              | 61                                                             | .1                                                      | .01                                                                  | 30                                         | 26                                                                 | 15                                            | .00                                 | 3                 | .2                      |
| NOV 13... | --                                                                 | 210                                             | --                                                             | --                                                      | --                                                                   | --                                         | --                                                                 | --                                            | --                                  | --                | --                      |
| JAN 13... | --                                                                 | 200                                             | --                                                             | .1                                                      | --                                                                   | 20                                         | --                                                                 | 26                                            | --                                  | --                | --                      |
| APR 09... | --                                                                 | 270                                             | --                                                             | .3                                                      | --                                                                   | 20                                         | --                                                                 | 20                                            | --                                  | --                | <.1                     |
| JUL 16... | --                                                                 | 160                                             | --                                                             | .1                                                      | --                                                                   | 20                                         | --                                                                 | --                                            | --                                  | --                | --                      |
| SEP 03... | --                                                                 | 290                                             | --                                                             | --                                                      | --                                                                   | --                                         | --                                                                 | --                                            | --                                  | --                | --                      |

&lt; Actual value is known to be less than the value shown.

## CALCASIEU RIVER BASIN

08017015 HOUSTON RIVER NEAR BUHLER, LA--Continued

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

| DATE         | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L) | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ALDRIN,<br>TOTAL<br>(UG/L) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDD,<br>TOTAL<br>(UG/L) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDE,<br>TOTAL<br>(UG/L) | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|----------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------|----------------------------|-------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|-------------------------|----------------------------------------------------------|-------------------------|----------------------------------------------------------|
| OCT<br>21... | 0                                                        | .0                                                            | .0                                                       | .00                        | .0                                                          | .0                                 | 2.0                                                                 | .00                     | .0                                                       | .00                     | .8                                                       |
| APR<br>09... | --                                                       | <.1                                                           | --                                                       | <.001                      | --                                                          | <.1                                | --                                                                  | <.001                   | --                                                       | <.001                   | --                                                       |

| DATE         | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L) | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DI-<br>AZINON,<br>TOTAL<br>(UG/L) | DI-<br>AZINON,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DI-<br>ELDRIN,<br>TOTAL<br>(UG/L) | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDRIN,<br>TOTAL<br>(UG/L) | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|---------------------------------------------------------|----------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------|----------------------------|-------------------------------------------------------------|
| OCT<br>21... | .00                                                     | .0                                                       | .00                               | .0                                                                 | .00                               | .0                                                                 | .00                                 | .0                                                                   | .00                        | .0                                                          |
| APR<br>09... | <.001                                                   | --                                                       | .00                               | --                                                                 | <.001                             | --                                                                 | <.001                               | --                                                                   | <.001                      | --                                                          |

| DATE         | ETHION,<br>TOTAL<br>(UG/L) | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG) | LINDANE<br>TOTAL<br>(UG/L) | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | MALA-<br>THION,<br>TOTAL<br>(UG/L) | MALA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|----------------------------|-------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------|----------------------------|-------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|
| OCT<br>21... | .00                        | .0                                                          | .00                                 | .0                                                                   | .00                                           | .0                                                                  | .00                        | .0                                                          | .00                                | .0                                                                  |
| APR<br>09... | <.01                       | --                                                          | <.001                               | --                                                                   | <.001                                         | --                                                                  | <.001                      | --                                                          | <.01                               | --                                                                  |

| DATE         | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | MIREX,<br>TOTAL<br>(UG/L) | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | PARA-<br>THION,<br>TOTAL<br>(UG/L) | PARA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|--------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|
| OCT<br>21... | .00                                        | .0                                                                          | .00                                          | .0                                                                            | .00                                         | .0                                                                           | .00                       | .0                                                         | .00                                | .0                                                                  |
| APR<br>09... | <.01                                       | --                                                                          | <.01                                         | --                                                                            | <.01                                        | --                                                                           | <.01                      | --                                                         | <.01                               | --                                                                  |

| DATE         | PER-<br>THANE<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>IN<br>BOTTOM<br>MATL.<br>(UG/KG) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOX-<br>APHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>TRI-<br>THION<br>(UG/L) | TRI-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | 2,4-D,<br>TOTAL<br>(UG/L) | 2,4-DP<br>TOTAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVFX,<br>TOTAL<br>(UG/L) |
|--------------|----------------------------------|---------------------------------------------------|------------------------------------|---------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| OCT<br>21... | .0                               | .00                                               | .0                                 | 0                                                                   | .00                              | .0                                                                 | .02                       | .01                       | .00                        | .00                        |
| APR<br>09... | <.01                             | --                                                | <.1                                | --                                                                  | <.01                             | --                                                                 | <.01                      | <.01                      | <.01                       | <.01                       |

| DATE         | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|--------------------------------------------|---------------------------------------------------------------|
| NOV<br>13... | 22                                         | 88                                                            |

&lt; Actual value is known to be less than the value shown.

301513093130500 CALCASIEU RIVER EAST OF SALT WATER BARRIER AT LAKE CHARLES, LA (CE 73472)

LOCATION.--Lat 30°15'13", long 93°13'05", T.9 S., R.8 W., Calcasieu Parish, Hydrologic Unit 08080206, in navigation channel on east side of structure, 1.8 mi (2.9 km) north of Lake Charles Post Office.

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, 31.5°C Aug. 10, 11, 1977; minimum daily, 6.0°C Jan. 22, 23, 1978.

CHLORIDE: Maximum daily, 12,000 mg/L Jan. 12, 1981; minimum daily, 4.4 mg/L May 7, 14, 1975.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 30.0°C July 24, several days in August; minimum daily, 8.0°C Feb. 12.

CHLORIDE: Maximum daily, 12,000 mg/L Jan. 12; minimum daily, 10 mg/L July 19.

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   | 28.0 | 17.0 | 14.0 | 13.0 | 12.0 | 10.0 | 19.0 | 23.0 | 25.0 | 27.0 | 29.0 | 29.0 |
| 2   | 28.0 | 18.0 | 14.0 | 13.0 | 11.0 | 10.0 | 19.0 | 24.0 | 25.0 | 28.5 | 29.0 | 28.5 |
| 3   | 28.0 | 19.0 | 14.0 | 13.0 | 10.0 | 10.0 | 20.0 | 24.0 | 26.0 | 27.0 | 29.0 | 28.5 |
| 4   | 28.0 | 19.0 | 14.0 | 13.0 | 10.0 | 15.5 | 20.0 | 23.0 | 27.0 | 28.0 | 29.5 | 28.5 |
| 5   | 28.0 | 19.0 | 15.0 | 13.0 | 10.0 | 15.0 | 20.0 | 29.0 | 27.0 | 27.5 | 29.5 | 28.5 |
| 6   | 28.0 | 19.0 | 15.0 | 13.0 | 10.5 | 15.5 | 20.0 | 23.0 | 25.0 | 26.0 | 29.5 | 28.5 |
| 7   | 28.0 | 19.0 | 16.0 | 13.0 | 10.5 | 15.5 | 21.0 | 23.0 | 27.0 | 25.5 | 29.5 | 28.5 |
| 8   | 28.0 | 19.0 | 16.0 | 13.0 | 10.5 | 16.0 | 21.0 | 24.0 | 27.0 | 26.0 | 30.0 | 28.5 |
| 9   | 28.0 | 19.0 | 16.0 | 13.0 | 10.5 | 16.0 | 21.0 | 24.0 | 27.0 | 27.0 | 29.5 | 28.5 |
| 10  | 28.0 | 19.0 | 15.0 | 13.0 | 10.5 | 16.0 | 24.0 | 23.0 | 27.0 | 27.0 | 30.0 | 28.0 |
| 11  | 28.0 | 19.0 | 14.0 | 13.0 | 9.0  | 16.5 | 25.0 | 23.0 | 26.0 | 27.0 | 30.0 | 28.0 |
| 12  | 28.0 | 19.0 | 13.0 | 13.0 | 8.0  | 16.5 | 25.0 | 22.5 | 25.0 | 27.0 | 29.0 | 28.0 |
| 13  | 24.0 | 20.0 | 13.0 | 13.0 | 10.0 | 16.0 | 26.0 | 23.0 | 25.0 | 27.0 | 29.0 | 28.5 |
| 14  | 24.0 | 20.0 | 13.0 | 13.0 | 9.0  | 16.0 | 22.0 | 23.0 | 26.0 | 27.5 | 29.0 | 29.0 |
| 15  | 24.0 | 20.0 | 13.0 | 13.0 | 9.5  | 16.0 | 22.0 | 23.0 | 27.0 | 28.0 | 30.0 | 28.5 |
| 16  | 24.0 | 20.0 | 13.0 | 13.0 | 10.0 | 17.0 | 22.5 | 24.5 | 27.0 | 28.0 | 30.0 | 28.0 |
| 17  | 26.0 | 20.0 | 13.0 | 13.0 | 10.0 | 16.0 | 21.5 | 24.0 | 27.0 | 28.5 | 30.0 | 28.0 |
| 18  | 26.0 | 20.0 | 13.0 | 13.0 | 12.0 | 16.0 | 22.5 | 25.0 | 28.0 | 28.5 | 29.5 | 27.5 |
| 19  | 22.0 | 16.0 | 13.0 | 13.0 | 12.0 | 16.5 | 22.5 | 25.0 | 28.0 | 29.0 | 28.5 | 27.0 |
| 20  | 22.0 | 16.0 | 13.0 | 13.0 | 12.0 | 15.5 | 22.5 | 24.0 | 28.0 | 29.0 | 28.5 | 27.5 |
| 21  | 22.0 | 16.0 | 12.0 | 13.0 | 12.0 | 15.5 | 23.0 | 24.0 | 28.0 | 29.0 | 29.0 | 28.0 |
| 22  | 22.0 | 16.0 | 12.0 | 13.0 | 12.0 | 16.0 | 23.5 | 24.0 | 28.0 | 29.0 | 30.0 | 28.0 |
| 23  | 22.0 | 16.0 | 11.0 | 13.0 | 13.0 | 16.0 | 23.5 | 24.0 | 28.0 | 29.5 | 30.0 | 28.0 |
| 24  | 22.0 | 16.0 | 12.0 | 13.0 | 13.0 | 16.0 | 23.0 | 25.0 | 28.0 | 30.0 | 29.0 | 28.0 |
| 25  | 21.0 | 16.0 | 14.0 | 10.0 | 10.0 | ---  | 22.5 | 25.0 | 27.0 | 29.0 | 29.5 | 28.0 |
| 26  | 20.0 | 16.0 | 13.0 | 10.5 | 10.0 | 16.0 | 23.0 | 25.0 | 27.0 | 29.5 | 29.5 | 26.5 |
| 27  | 22.0 | 16.0 | 13.0 | 11.0 | 10.0 | 16.0 | 23.0 | 25.0 | 27.0 | ---  | 30.0 | 27.5 |
| 28  | 22.0 | 16.0 | 13.0 | 11.0 | 10.0 | 16.5 | 23.0 | 25.0 | 27.0 | 29.0 | 30.0 | 27.5 |
| 29  | 22.0 | 16.0 | 12.0 | 12.0 | ---  | 17.0 | 22.5 | 25.0 | 27.0 | 29.0 | 29.5 | 27.0 |
| 30  | 22.0 | 16.0 | 12.0 | 12.0 | ---  | 18.0 | 26.5 | 25.0 | 27.0 | 29.0 | 29.0 | 27.0 |
| 31  | 22.0 | ---  | 12.0 | 11.0 | ---  | 18.5 | ---  | 25.0 | ---  | 29.0 | 29.0 | ---  |
| MAX | 28.0 | 20.0 | 16.0 | 13.0 | 13.0 | 18.5 | 26.5 | 29.0 | 28.0 | 30.0 | 30.0 | 29.0 |
| MIN | 20.0 | 16.0 | 11.0 | 10.0 | 8.0  | 10.0 | 19.0 | 22.5 | 25.0 | 25.5 | 28.5 | 26.5 |



301513093130500 CALCASIEU RIVER EAST OF SALT WATER BARRIER AT LAKE CHARLES, LA (CE 73472)--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   | 4200 | 440  | 800  | 420   | 7900 | 2200 | 94   | 490  | 1700 | --- | 64   | 3400 |
| 2   | 2800 | 60   | 1700 | 680   | 340  | 2400 | 86   | 460  | 1100 | 41  | 97   | 3400 |
| 3   | 1000 | 930  | 500  | 400   | 5000 | 170  | 4800 | 1400 | 1700 | 220 | 61   | 2700 |
| 4   | 900  | 1000 | 5000 | 3400  | 3300 | 4000 | 3000 | 2900 | 1500 | 42  | 4000 | 2300 |
| 5   | 800  | 400  | 1700 | 3800  | 9300 | 730  | 320  | 1600 | 900  | 24  | 100  | 2300 |
| 6   | 2300 | 400  | 7800 | 4400  | 870  | 500  | 280  | 950  | 250  | 51  | 62   | 1300 |
| 7   | 5600 | 1000 | 2200 | 3800  | 260  | 400  | 260  | 1900 | 100  | 30  | 61   | 1200 |
| 8   | 4800 | 6800 | 2400 | 410   | 320  | 280  | 220  | 1500 | 97   | 27  | 780  | 1800 |
| 9   | 2500 | 400  | 300  | 2100  | 300  | 320  | 500  | 2200 | 31   | 26  | 2100 | 1400 |
| 10  | 2800 | 500  | 1400 | 520   | 230  | 200  | 360  | 2300 | 84   | 17  | 200  | 1300 |
| 11  | 3700 | 4500 | 1200 | 450   | 100  | 170  | 210  | 690  | 40   | 33  | 180  | 2400 |
| 12  | 1000 | 4400 | ---  | 12000 | 70   | 140  | 190  | 490  | 30   | 24  | 260  | 2900 |
| 13  | 3000 | 5800 | 400  | 500   | 150  | 42   | 390  | 1300 | 34   | 26  | 3400 | 2900 |
| 14  | 2000 | 7200 | 300  | 500   | 160  | 45   | 360  | 900  | 23   | 23  | 260  | 2900 |
| 15  | 2800 | 900  | 260  | 290   | 60   | 75   | 340  | 610  | 12   | 36  | 330  | 2900 |
| 16  | 1900 | 800  | 290  | 7600  | 61   | 50   | 500  | 9700 | 29   | 20  | 7200 | 2300 |
| 17  | 2100 | 1000 | 1800 | 570   | 69   | 61   | 320  | 3700 | 30   | 13  | 780  | 2500 |
| 18  | 2100 | 1700 | 2900 | 7700  | 50   | 39   | 810  | 2000 | 59   | 19  | 680  | 2300 |
| 19  | 3800 | 2500 | 300  | 7700  | 73   | 47   | 730  | 820  | 40   | 10  | 170  | 3700 |
| 20  | 1200 | 2000 | 200  | 5500  | 80   | 61   | 740  | 850  | 42   | 27  | 190  | 2500 |
| 21  | 500  | 2500 | 110  | 5700  | 100  | 1700 | 610  | 620  | 130  | 24  | 150  | 3000 |
| 22  | 700  | 6000 | 480  | 610   | 2900 | 100  | 540  | 1800 | 17   | 21  | 890  | 3000 |
| 23  | 200  | 7000 | 1100 | 880   | 51   | 110  | 840  | 2100 | 29   | 26  | 1400 | 2600 |
| 24  | 280  | 2400 | 3000 | 880   | 52   | 93   | 620  | 2400 | 20   | 23  | 1200 | 2600 |
| 25  | ---  | 2400 | 1300 | 530   | 5000 | ---  | 420  | 2200 | 230  | 770 | 1500 | 2800 |
| 26  | 260  | 1400 | 3400 | 580   | 560  | 120  | 660  | 3100 | 280  | 580 | 3600 | 2800 |
| 27  | 280  | 4100 | 3600 | 490   | 2000 | 65   | 730  | 2400 | 310  | 160 | 2300 | 2800 |
| 28  | 310  | 1200 | 4100 | 380   | 2100 | 100  | 510  | 2200 | 200  | 150 | 2500 | 3000 |
| 29  | 60   | 5500 | 4600 | 10000 | ---  | 310  | 590  | 2500 | 200  | 140 | 7600 | 3400 |
| 30  | 60   | 5900 | 1200 | 420   | ---  | 83   | 580  | 2800 | 250  | 58  | 3100 | 3500 |
| 31  | 70   | ---  | 5000 | 310   | ---  | 230  | ---  | 2600 | ---  | 56  | 3400 | ---  |
| MAX | 5600 | 7200 | 7800 | 12000 | 9300 | 4000 | 4800 | 9700 | 1700 | 770 | 7600 | 3700 |
| MIN | 60   | 60   | 110  | 290   | 50   | 39   | 86   | 460  | 12   | 10  | 61   | 1200 |

301513093130600 CALCASIEU RIVER WEST OF SALT WATER BARRIER AT LAKE CHARLES, LA (CE 73473)

LOCATION.--Lat 30°15'13", long 93°13'06", T.9 S., R.8 W., Calcasieu Parish, Hydrologic Unit 08080206, in navigation channel on west side of structure, 1.8 mi (2.9 km) north of Lake Charles Post Office.

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, 31.0°C Aug. 10, 11, 1977; minimum daily, 6.0°C Jan. 22, 1978.

CHLORIDE: Maximum daily, 17,000 mg/L Oct. 6, 1975; minimum daily, 4.2 mg/L Dec. 19, 1977.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 30.5°C Aug. 23;; minimum daily, 8.0°C Feb. 12.

CHLORIDE: Maximum daily, 13,000 mg/L Jan. 8; minimum daily, 14 mg/L July 10.

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   | 28.0 | 17.0 | 14.0 | 13.0 | 12.0 | 10.0 | 19.0 | 23.0 | 25.0 | 27.0 | 29.0 | 29.0 |
| 2   | 28.0 | 18.0 | 14.0 | 13.0 | 11.0 | 10.0 | 19.0 | 24.0 | 25.0 | 28.5 | 29.0 | 28.5 |
| 3   | 28.0 | 19.0 | 14.0 | 13.0 | 10.0 | 10.0 | 20.0 | 24.0 | 26.0 | 27.0 | 29.0 | 28.5 |
| 4   | 28.0 | 19.0 | 14.0 | 13.0 | 10.0 | 15.5 | 20.0 | 23.0 | 27.0 | 28.0 | 29.5 | 28.5 |
| 5   | 28.0 | 19.0 | 15.0 | 13.0 | 10.0 | 15.0 | 20.0 | 29.0 | 27.0 | 27.5 | 29.5 | 28.5 |
| 6   | 28.0 | 19.0 | 15.0 | 13.0 | 10.5 | 15.5 | 20.0 | 23.0 | 25.0 | 26.0 | 30.0 | 28.0 |
| 7   | 28.0 | 19.0 | 16.0 | 13.0 | 10.5 | 15.5 | 21.0 | 23.0 | 27.0 | 25.5 | 29.5 | 28.5 |
| 8   | 28.0 | 19.0 | 16.0 | 13.0 | 10.5 | 16.0 | 21.0 | 24.0 | 27.0 | 26.0 | 30.0 | 28.5 |
| 9   | 28.0 | 19.0 | 16.0 | 13.0 | 10.5 | 16.0 | 21.0 | 24.0 | 27.0 | 27.0 | 29.5 | 28.5 |
| 10  | 28.0 | 19.0 | 15.0 | 13.0 | 10.5 | 16.0 | 24.0 | 23.0 | 27.0 | 27.0 | 30.0 | 28.0 |
| 11  | 28.0 | 19.0 | 14.0 | 13.0 | 9.0  | 16.5 | 25.0 | 23.0 | 26.0 | 27.0 | 30.0 | 28.0 |
| 12  | 28.0 | 19.0 | 13.0 | 13.0 | 8.0  | 16.5 | 25.0 | 22.5 | 25.0 | 27.0 | 29.0 | 28.0 |
| 13  | 24.0 | 20.0 | 13.0 | 13.0 | 10.0 | 16.0 | 26.0 | 23.0 | 25.0 | 27.0 | 29.0 | 28.5 |
| 14  | 24.0 | 20.0 | 13.0 | 13.0 | 9.0  | 16.0 | 22.0 | 23.0 | 26.0 | 27.5 | 29.0 | 29.0 |
| 15  | 24.0 | 20.0 | 13.0 | 13.0 | 9.5  | 16.0 | 22.0 | 23.0 | 27.0 | 28.0 | 30.0 | 28.5 |
| 16  | 24.0 | 20.0 | 13.0 | 13.0 | 9.5  | 17.0 | 22.5 | 24.0 | 27.0 | 29.0 | 30.0 | 28.0 |
| 17  | 26.0 | 20.0 | 13.0 | 13.0 | 10.0 | 16.0 | 21.5 | 24.0 | 27.0 | 28.5 | 30.0 | 27.5 |
| 18  | 26.0 | 20.0 | 13.0 | 13.0 | 12.0 | 16.0 | 22.5 | 25.0 | 28.0 | 28.5 | 29.5 | 27.5 |
| 19  | 22.0 | 16.0 | ---  | 13.0 | 12.0 | 16.5 | 22.5 | 25.0 | 28.0 | 29.0 | 28.5 | 27.0 |
| 20  | 22.0 | 16.0 | 13.0 | 13.0 | 12.0 | 15.5 | 22.5 | 24.0 | 28.0 | 29.0 | 28.5 | 27.5 |
| 21  | 22.0 | 16.0 | 12.0 | 13.0 | 12.0 | 15.5 | 23.0 | 24.0 | 28.0 | 29.0 | 29.0 | 27.5 |
| 22  | 22.0 | 16.0 | 12.0 | 13.0 | 12.0 | 16.0 | 23.5 | 24.0 | 28.0 | 29.0 | 30.0 | 28.0 |
| 23  | 22.0 | 16.0 | 11.0 | 13.0 | 13.0 | 16.0 | 23.5 | 24.0 | 28.0 | 29.5 | 30.5 | 28.0 |
| 24  | 22.0 | 16.0 | 12.0 | 13.0 | 13.0 | 16.0 | 23.0 | 25.0 | 28.0 | 30.0 | 29.0 | 28.0 |
| 25  | 21.0 | 16.0 | 14.0 | 10.0 | 10.0 | 16.0 | 22.5 | 25.0 | 27.0 | 29.0 | 29.5 | 28.0 |
| 26  | 20.0 | 16.0 | 13.0 | 10.5 | 10.0 | 16.0 | 23.0 | 25.0 | 27.0 | 29.5 | 29.5 | 26.5 |
| 27  | 22.0 | 16.0 | 13.0 | 11.0 | 10.0 | 16.5 | 23.0 | 25.0 | 27.0 | ---  | 30.0 | 27.5 |
| 28  | 22.0 | 16.0 | 13.0 | 11.0 | 10.0 | 17.0 | 23.0 | 25.0 | 27.0 | 29.0 | 29.5 | 27.5 |
| 29  | 22.0 | 16.0 | 13.0 | 12.0 | ---  | 18.0 | 22.0 | 25.0 | 27.0 | 29.0 | 29.5 | 27.0 |
| 30  | 22.0 | 16.0 | ---  | 12.5 | ---  | 18.5 | 26.0 | 25.0 | 27.0 | 29.0 | 29.0 | 27.0 |
| 31  | 22.0 | ---  | ---  | 11.0 | ---  | 19.0 | ---  | 25.0 | ---  | 28.0 | 29.0 | ---  |
| MAX | 28.0 | 20.0 | 16.0 | 13.0 | 13.0 | 19.0 | 26.0 | 29.0 | 28.0 | 30.0 | 30.5 | 29.0 |
| MIN | 20.0 | 16.0 | 11.0 | 10.0 | 8.0  | 10.0 | 19.0 | 22.5 | 25.0 | 25.5 | 28.5 | 26.5 |

## CALCASIEU RIVER BASIN

301513093130600 CALCASIEU RIVER WEST OF SALT WATER BARRIER AT LAKE CHARLES, LA (CE 73473)--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   | 1400  | 10000 | 7800  | 5100  | 7700 | 2100 | 2900 | 6100 | 4200 | ---  | 3000  | 11000 |
| 2   | 2800  | 10000 | 8600  | 12000 | 8800 | 2400 | 4500 | 4600 | 4200 | 2400 | 3700  | 7900  |
| 3   | 600   | 11000 | 9100  | 11000 | 5600 | 240  | 4400 | 8900 | 4400 | 120  | 3800  | 8100  |
| 4   | 900   | 11000 | 9200  | 12000 | 490  | 3700 | 4000 | 7700 | 5100 | 24   | 160   | 8000  |
| 5   | 900   | 10000 | 7100  | 12000 | 6600 | 6700 | 1300 | 8600 | 890  | 22   | 4300  | 6900  |
| 6   | 7900  | 8400  | 4200  | 12000 | 720  | 3900 | 2700 | 1200 | 6300 | 20   | 4000  | 6400  |
| 7   | 9400  | 6900  | 2700  | 11000 | 310  | 4800 | 5500 | 9400 | 200  | 52   | 2800  | 7800  |
| 8   | 9900  | 5300  | 2800  | 13000 | 270  | 3800 | 4100 | 4700 | 150  | 18   | 410   | 7500  |
| 9   | 10000 | 7700  | 300   | 12000 | 230  | 4000 | 4300 | 2000 | 77   | 16   | 4500  | 8400  |
| 10  | 9900  | 8000  | 5200  | 10000 | 130  | 2100 | 2500 | 2100 | 130  | 14   | 6000  | 9000  |
| 11  | 10000 | 8400  | 2800  | 12000 | 1400 | 3000 | 4800 | 3800 | 47   | 24   | 7000  | 9300  |
| 12  | 9400  | 4700  | 1500  | 12000 | 1800 | 2400 | 4500 | 7500 | 41   | 16   | 6900  | 8900  |
| 13  | 10000 | 5600  | 2700  | 12000 | 3400 | 1500 | 4600 | 7500 | 43   | 18   | 7400  | 8900  |
| 14  | 11000 | 7100  | 2100  | 11000 | 3700 | 5500 | 4500 | 7200 | 31   | 20   | 7200  | 8200  |
| 15  | 10000 | 800   | 5700  | 250   | 3200 | 4900 | 6100 | 6500 | 25   | 18   | 7500  | 7200  |
| 16  | 9000  | 700   | 4600  | 8200  | 820  | 2600 | 6500 | 6100 | 33   | 20   | 500   | 5800  |
| 17  | 9200  | 1000  | 6600  | 12000 | 6800 | 2800 | 6500 | 8500 | 33   | 30   | 7000  | 7200  |
| 18  | 2100  | 5900  | 7700  | 7500  | 5800 | 3000 | 5400 | 3200 | 25   | 280  | 6700  | 7600  |
| 19  | 3400  | 11000 | ---   | 7500  | 8100 | 100  | 5100 | 1000 | 31   | 340  | 6900  | 7000  |
| 20  | 3300  | 11000 | 7500  | 5300  | 5000 | 100  | 3300 | 3000 | 21   | 410  | 7600  | 9000  |
| 21  | 3200  | 10000 | 600   | 6700  | 7100 | 100  | 5700 | 5200 | 29   | 690  | 8300  | 9000  |
| 22  | 3000  | 10000 | 9600  | 5800  | 2600 | 6000 | 5000 | 8500 | 23   | 1100 | 9200  | 9500  |
| 23  | 400   | 11000 | 11000 | 7800  | 2800 | 2000 | 4800 | 8500 | 390  | 1300 | 6800  | 8800  |
| 24  | 2600  | 11000 | 500   | 10000 | 2300 | 6200 | 4000 | 7600 | 910  | 2000 | 6800  | 9100  |
| 25  | 500   | 11000 | 2800  | 9700  | 2300 | 7300 | 4600 | 8500 | 1000 | 2800 | 9800  | 7700  |
| 26  | 2600  | 10000 | 3600  | 8400  | 190  | 7300 | 7000 | 8200 | 170  | 7600 | 10000 | 8700  |
| 27  | 2600  | 4100  | 4300  | 8700  | 2000 | 7300 | 8100 | 7500 | 54   | 6800 | 11000 | 8000  |
| 28  | 3100  | 7100  | 4700  | 8400  | 2100 | 4400 | 8000 | 8300 | 1000 | 4500 | 10000 | 8900  |
| 29  | 2800  | 5500  | 10000 | 330   | ---  | 7200 | 6600 | 8300 | 1200 | 2800 | 10000 | 3000  |
| 30  | 7700  | 5800  | ---   | 9200  | ---  | 6900 | 5400 | 8600 | 2600 | 2700 | 11000 | 8000  |
| 31  | 9500  | ---   | ---   | 9800  | ---  | 3400 | ---  | 6600 | ---  | 210  | 11000 | ---   |
| MAX | 11000 | 11000 | 11000 | 13000 | 8800 | 7300 | 8100 | 9400 | 6300 | 7600 | 11000 | 11000 |
| MIN | 400   | 700   | 300   | 250   | 130  | 100  | 1300 | 1000 | 21   | 14   | 160   | 3000  |

301432093135700 CALCASIEU RIVER AT MILE 40.0, AT LAKE CHARLES, LA (CE 73510)

LOCATION.--Lat 30°14'32", long 93°13'57", T.9 S., R.8 W., Calcasieu Parish, Hydrologic Unit 08080206, 5.0 mi (8.0 km) east of Lake Charles.

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.

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

| DATE      | TIME | SPECIFIC CONDUCTANCE (MICROMHOS) | PH FIELD (UNITS) | COLOR (PLATINUM COBALT UNITS) | TURBIDITY (NTU) | SETTLABLE MATTER (ML/L/HR) | OXYGEN, DIS-SOLVED (MG/L) | OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) | OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L) | COLIFORM, TOTAL, IMMEDIATE (COLS. PER 100 ML) | COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) | HARDNESS (MG/L AS CaCO3) |
|-----------|------|----------------------------------|------------------|-------------------------------|-----------------|----------------------------|---------------------------|---------------------------------------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------|--------------------------|
| OCT 30... | 1015 | 1600                             | 6.6              | 50                            | 10              | <1.0                       | 6.0                       | 28                                          | .4                                          | K85                                           | K20                                       | 150                      |
| NOV 20... | 1449 | 1840                             | 6.7              | 30                            | 8.0             | <1.0                       | 8.3                       | 22                                          | 2.3                                         | --                                            | K5                                        | 170                      |
| DEC 12... | 1111 | 428                              | 6.3              | 70                            | 30              | <1.0                       | 7.3                       | 28                                          | 1.4                                         | 1400                                          | 1100                                      | 50                       |
| JAN 22... | 1420 | 1070                             | 6.6              | 50                            | 25              | <1.0                       | 8.5                       | 30                                          | 2.5                                         | --                                            | --                                        | 110                      |

| DATE      | HARDNESS, NONCARBONATE (MG/L AS CaCO3) | CALCIUM DIS-SOLVED (MG/L AS Ca) | MAGNESIUM, DIS-SOLVED (MG/L AS Mg) | SODIUM, DIS-SOLVED (MG/L AS Na) | POTASSIUM, DIS-SOLVED (MG/L AS K) | ALKALINITY (MG/L AS CaCO3) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLORIDE, DIS-SOLVED (MG/L AS Cl) | SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) | NITROGEN, NITRATE TOTAL (MG/L AS N) | NITROGEN, NITRITE TOTAL (MG/L AS N) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) |
|-----------|----------------------------------------|---------------------------------|------------------------------------|---------------------------------|-----------------------------------|----------------------------|----------------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| OCT 30... | 120                                    | 13                              | 28                                 | 270                             | 12                                | 24                         | 67                               | 450                               | 4                                               | .08                                 | .04                                 | .12                                 |
| NOV 20... | 140                                    | 14                              | 32                                 | 290                             | 12                                | 24                         | 73                               | 500                               | 7                                               | .11                                 | .01                                 | .12                                 |
| DEC 12... | 34                                     | 6.0                             | 8.5                                | 58                              | 5.5                               | 16                         | 20                               | 100                               | 32                                              | .15                                 | .02                                 | .17                                 |
| JAN 22... | 67                                     | 18                              | 16                                 | 140                             | 6.8                               | 44                         | 46                               | 230                               | 31                                              | .21                                 | .02                                 | .23                                 |

| DATE      | NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | ARSENIC TOTAL (UG/L AS AS) | ARSENIC DIS-SOLVED (UG/L AS AS) | BERYLLIUM, TOTAL RECOVERABLE (UG/L AS RE) | BERYLLIUM, DIS-SOLVED (UG/L AS BE) | CADMIUM TOTAL RECOVERABLE (UG/L AS CD) | CADMIUM DIS-SOLVED (UG/L AS CD) | CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) | CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR) | COPPER, TOTAL RECOVERABLE (UG/L AS CU) | COPPER, DIS-SOLVED (UG/L AS CU) |
|-----------|----------------------------------------------|-------------------------------|----------------------------|---------------------------------|-------------------------------------------|------------------------------------|----------------------------------------|---------------------------------|------------------------------------------|-----------------------------------------|----------------------------------------|---------------------------------|
| OCT 30... | 1.0                                          | .22                           | 1                          | 1                               | 0                                         | <1                                 | 3                                      | 2                               | 10                                       | 0                                       | 2                                      | 5                               |
| NOV 20... | .65                                          | .18                           | 0                          | 0                               | 0                                         | <1                                 | 0                                      | <1                              | 0                                        | 0                                       | 6                                      | 0                               |
| DEC 12... | .77                                          | .04                           | 1                          | 0                               | 0                                         | <1                                 | 0                                      | <1                              | 0                                        | 0                                       | 4                                      | 3                               |
| JAN 22... | .88                                          | .21                           | 2                          | 2                               | 0                                         | 0                                  | 0                                      | <1                              | 0                                        | 0                                       | 6                                      | 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).

## CALCASIEU RIVER BASIN

301432093135700 CALCASIEU RIVER AT MILE 40.0, AT LAKE CHARLES, LA (CE 73510)--Continued

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

| DATE         | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------|
| OCT<br>30... | 150                                        | 7                                                     | 2                                          | .1                                                      | .0                                           | 1                                                       | 2                                            | 0                                          | 0                                                   | 10                                                    | 10                                         | --                                            |
| NOV<br>20... | 220                                        | 4                                                     | 0                                          | .0                                                      | .0                                           | 2                                                       | 0                                            | 0                                          | 0                                                   | 10                                                    | 8                                          | 6.2                                           |
| DEC<br>12... | 220                                        | 4                                                     | 0                                          | .1                                                      | .2                                           | 6                                                       | 0                                            | 0                                          | 0                                                   | 30                                                    | 10                                         | 11                                            |
| JAN<br>22... | 140                                        | 13                                                    | 0                                          | .1                                                      | .0                                           | 4                                                       | 0                                            | 0                                          | 0                                                   | 30                                                    | 10                                         | 10                                            |

| DATE         | CYANIDE<br>TOTAL<br>(MG/L<br>AS CN) | PHENOLS<br>(UG/L) | OIL AND<br>GREASE,<br>TOTAL<br>RECOV-<br>ERABLE<br>GRAVI-<br>METRIC<br>(MG/L) | PCB<br>TOTAL<br>(UG/L) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L) | ALDRIN,<br>TOTAL<br>(UG/L) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L) | DDD,<br>TOTAL<br>(UG/L) | DDE,<br>TOTAL<br>(UG/L) | DDT,<br>TOTAL<br>(UG/L) | DI-<br>AZINON,<br>TOTAL<br>(UG/L) |
|--------------|-------------------------------------|-------------------|-------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------|----------------------------|------------------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|
| OCT<br>30... | .00                                 | 2                 | 0                                                                             | .0                     | .0                                                            | .000                       | .0                                 | .000                    | .000                    | .000                    | .00                               |
| NOV<br>20... | .00                                 | 1                 | 0                                                                             | <.1                    | <.1                                                           | .000                       | <.1                                | .000                    | .000                    | .000                    | <.01                              |
| DEC<br>12... | .00                                 | 16                | 0                                                                             | <.1                    | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | <.01                              |
| JAN<br>22... | .00                                 | 2                 | 0                                                                             | <.1                    | <.1                                                           | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | .03                               |

| DATE         | DI-<br>ELDRIN<br>TOTAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) | ENDRIN,<br>TOTAL<br>(UG/L) | ETHION,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L) | LINDANE<br>TOTAL<br>(UG/L) | MALA-<br>THION,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L) |
|--------------|----------------------------------|-------------------------------------|----------------------------|----------------------------|-------------------------------------|-----------------------------------------------|----------------------------|------------------------------------|--------------------------------------------|----------------------------------------------|---------------------------------------------|
| OCT<br>30... | .000                             | .000                                | .000                       | .00                        | .000                                | .000                                          | .000                       | .00                                | .00                                        | .00                                          | .00                                         |
| NOV<br>20... | .000                             | .000                                | .000                       | <.01                       | .000                                | .000                                          | .000                       | <.01                               | <.01                                       | <.01                                         | <.01                                        |
| DEC<br>12... | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        |
| JAN<br>22... | <.001                            | <.001                               | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | .04                                | <.01                                       | .05                                          | <.01                                        |

| DATE         | MIREX,<br>TOTAL<br>(UG/L) | PARA-<br>THION,<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>TOTAL<br>(UG/L) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOTAL<br>TRI-<br>THION<br>(UG/L) | 2,4-D,<br>TOTAL<br>(UG/L) | 2, 4-DP,<br>TOTAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) | CHLOR-A<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) | CHLOR-B<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) |
|--------------|---------------------------|------------------------------------|----------------------------------|------------------------------------|----------------------------------|---------------------------|-----------------------------|----------------------------|----------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| OCT<br>30... | .00                       | .00                                | .00                              | .0                                 | .00                              | .25                       | .00                         | .01                        | .00                        | .720                                                              | .000                                                              |
| NOV<br>20... | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .01                       | .00                         | .00                        | .00                        | 1.20                                                              | .000                                                              |
| DEC<br>12... | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .07                       | .00                         | .01                        | .00                        | .000                                                              | .000                                                              |
| JAN<br>22... | <.01                      | <.01                               | <.01                             | <.1                                | <.01                             | .13                       | .00                         | .01                        | .00                        | 8.97                                                              | .720                                                              |

&lt; Actual value is known to be less than the value shown.

301305093151200 CALCASIEU RIVER AND PASS NEAR LAKE CHARLES, LA (CE 73550)

LOCATION.--Lat 30°13'05", long 93°15'12", T.10 S., R.9 W., Calcasieu Parish, Hydrologic Unit 08080206, on east end of Lake Charles harbor, 2.3 mi (3.7 km) southeast of Lake Charles Post Office.

DRAINAGE AREA.--Indeterminate.

## PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to November 1978, December 1979 to September 1980, October 1980 to March 1981.

CHLORIDE-SURFACE: October 1974 to November 1978, December 1979 to September 1980, October 1980 to March 1981.

CHLORIDE-15 FT DEPTH: October 1975 to November 1978, December 1979 to September 1980, October 1980 to March 1981.

CHLORIDE-25 FT DEPTH: October 1975 to November 1978, December 1979 to September 1980, October 1980 to March 1981.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey. Samples are collected at depths of 5 ft (1.5 m), 15 ft (4.6 m), and 25 ft (7.6 m).

## EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 32.0°C July 13-15, 1978; minimum daily, 6.0°C Jan. 19-21, Feb. 7, 8, 21, 1978.

CHLORIDE-SURFACE: Maximum daily, 12,000 mg/L July 25, 1980, Jan. 14, 15, 18, 1981; minimum daily, 8.0 mg/L May 11, 14, 19, 1975.

CHLORIDE-15 FT DEPTH: Maximum daily, 17,000 mg/L Aug. 25, 1980; minimum daily, 10 mg/L Apr. 19-23, May 22-24, 27, 28, 30, 1980.

CHLORIDE-25 FT DEPTH: Maximum daily, 17,000 mg/L Aug. 25, 1980; minimum daily, 10 mg/L Apr. 6, 19-22, May 23-25, 29, 30, 1980.

## EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 27.0°C Oct. 13-20; minimum daily, 7.0°C Feb. 11.

CHLORIDE-SURFACE: Maximum daily, 12,000 mg/L Jan. 14, 15, 18; minimum daily, 1,200 mg/L Feb. 7.

CHLORIDE-15 FT DEPTH: Maximum daily, 13,000 mg/L Jan. 6, 7, 10, 12-14, 18-21; minimum daily, 2,500 mg/L Feb. 12.

CHLORIDE-25 FT DEPTH: Maximum daily, 14,000 mg/L Jan. 6, 12-15; minimum daily, 3,800 mg/L Feb. 6.

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   | 26.0 | ---  | 15.0 | 13.0 | 12.0 | 15.0 |     |     |     |     |     |     |
| 2   | 26.0 | ---  | 15.0 | 13.0 | 9.0  | 15.0 |     |     |     |     |     |     |
| 3   | 26.0 | ---  | 14.0 | 12.0 | 8.0  | 15.0 |     |     |     |     |     |     |
| 4   | 26.0 | ---  | 14.0 | 13.0 | 9.0  | 15.0 |     |     |     |     |     |     |
| 5   | 26.0 | ---  | 15.0 | 10.0 | 11.0 | 14.0 |     |     |     |     |     |     |
| 6   | 26.0 | ---  | 15.0 | 11.0 | 11.0 | 14.0 |     |     |     |     |     |     |
| 7   | 26.0 | ---  | 14.0 | 12.0 | 11.0 | 14.0 |     |     |     |     |     |     |
| 8   | 26.0 | ---  | 14.0 | 11.0 | 11.0 | 14.0 |     |     |     |     |     |     |
| 9   | 24.0 | ---  | 15.0 | 11.0 | 12.0 | 14.0 |     |     |     |     |     |     |
| 10  | 24.0 | ---  | 14.0 | 12.0 | 12.0 | 14.0 |     |     |     |     |     |     |
| 11  | 24.0 | ---  | 14.0 | 12.0 | 7.0  | 15.0 |     |     |     |     |     |     |
| 12  | 24.0 | ---  | 14.0 | 7.0  | 8.0  | 14.0 |     |     |     |     |     |     |
| 13  | 27.0 | ---  | 14.0 | 8.0  | 9.0  | 15.0 |     |     |     |     |     |     |
| 14  | 27.0 | ---  | 15.0 | 9.0  | 9.0  | 14.0 |     |     |     |     |     |     |
| 15  | 27.0 | ---  | 14.0 | 10.0 | 10.0 | 14.0 |     |     |     |     |     |     |
| 16  | 27.0 | ---  | 15.0 | 10.0 | 10.0 | 14.0 |     |     |     |     |     |     |
| 17  | 27.0 | ---  | 15.0 | 8.0  | 10.0 | 14.0 |     |     |     |     |     |     |
| 18  | 27.0 | ---  | 15.0 | 11.0 | 11.0 | 15.0 |     |     |     |     |     |     |
| 19  | 27.0 | 15.0 | 15.0 | 11.0 | 12.0 | 13.0 |     |     |     |     |     |     |
| 20  | 27.0 | 15.0 | 9.0  | 11.0 | 12.0 | 13.0 |     |     |     |     |     |     |
| 21  | 26.0 | 14.0 | 9.0  | 11.0 | 12.0 | 14.0 |     |     |     |     |     |     |
| 22  | 26.0 | 15.0 | 9.0  | 11.0 | 14.0 | 15.0 |     |     |     |     |     |     |
| 23  | 24.0 | 15.0 | 9.0  | 11.0 | 13.0 | 15.0 |     |     |     |     |     |     |
| 24  | 22.0 | 15.0 | 13.0 | 11.0 | 13.0 | 15.0 |     |     |     |     |     |     |
| 25  | 22.0 | 15.0 | 9.0  | 12.0 | 13.0 | 15.0 |     |     |     |     |     |     |
| 26  | 22.0 | 12.0 | 8.0  | 12.0 | 13.0 | 15.0 |     |     |     |     |     |     |
| 27  | 22.0 | 12.0 | 9.0  | 12.0 | 13.0 | 15.0 |     |     |     |     |     |     |
| 28  | 21.0 | 10.0 | 12.0 | 11.0 | 13.0 | 16.0 |     |     |     |     |     |     |
| 29  | 14.0 | 10.0 | 12.0 | 12.0 | ---  | 16.0 |     |     |     |     |     |     |
| 30  | 17.0 | 13.0 | 11.0 | 12.0 | ---  | 16.0 |     |     |     |     |     |     |
| 31  | 17.0 | ---  | 11.0 | 12.0 | ---  | 14.0 |     |     |     |     |     |     |
| MAX | 27.0 | ---  | 15.0 | 13.0 | 14.0 | 16.0 |     |     |     |     |     |     |
| MIN | 17.0 | ---  | 8.0  | 7.0  | 7.0  | 13.0 |     |     |     |     |     |     |



## CALCASIEU RIVER BASIN

301305093151200 CALCASIEU RIVER AND PASS NEAR LAKE CHARLES, LA (CE 73550)--Continued

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

| DAY | OCT  | NOV  | DEC  | JAN   | FEB  | MAR  | APR | MAY | JUN | JUL | AUG | SEP |
|-----|------|------|------|-------|------|------|-----|-----|-----|-----|-----|-----|
| 1   | 4800 | ---  | 6000 | 8400  | 4500 | 3100 |     |     |     |     |     |     |
| 2   | 4800 | ---  | 5000 | 8300  | 8500 | 3400 |     |     |     |     |     |     |
| 3   | 4800 | ---  | 4400 | 9600  | 7000 | 6900 |     |     |     |     |     |     |
| 4   | 5400 | ---  | 6400 | 10000 | 6500 | 6500 |     |     |     |     |     |     |
| 5   | 7400 | ---  | 7300 | 10000 | 3000 | 4100 |     |     |     |     |     |     |
| 6   | 6400 | ---  | 7300 | 11000 | 2200 | 6100 |     |     |     |     |     |     |
| 7   | 7500 | ---  | 7900 | 10000 | 1200 | 4000 |     |     |     |     |     |     |
| 8   | 6800 | ---  | 7600 | 11000 | 1500 | 4200 |     |     |     |     |     |     |
| 9   | 7500 | ---  | 7100 | 9000  | 1700 | 2000 |     |     |     |     |     |     |
| 10  | 6300 | ---  | 5100 | 11000 | 1700 | 2000 |     |     |     |     |     |     |
| 11  | 6200 | ---  | 4300 | 9600  | 2600 | 2000 |     |     |     |     |     |     |
| 12  | 6100 | ---  | 5100 | 11000 | 1600 | 1600 |     |     |     |     |     |     |
| 13  | 8200 | ---  | 2600 | 11000 | 2300 | 2600 |     |     |     |     |     |     |
| 14  | 8300 | ---  | 2700 | 12000 | 2600 | 2000 |     |     |     |     |     |     |
| 15  | ---  | ---  | 2200 | 12000 | 2500 | 2600 |     |     |     |     |     |     |
| 16  | ---  | ---  | 2300 | 10000 | 2500 | 2100 |     |     |     |     |     |     |
| 17  | 8400 | ---  | 2600 | 11000 | 4000 | 2400 |     |     |     |     |     |     |
| 18  | 3200 | ---  | 2900 | 12000 | 2900 | 4600 |     |     |     |     |     |     |
| 19  | 3500 | 7900 | 5000 | 10000 | 4400 | 1700 |     |     |     |     |     |     |
| 20  | 3500 | 7000 | 2800 | 8900  | 3300 | 2500 |     |     |     |     |     |     |
| 21  | 3000 | 7500 | 3000 | 9600  | 3700 | 2700 |     |     |     |     |     |     |
| 22  | 2900 | 7900 | 6600 | 9500  | 2500 | 2600 |     |     |     |     |     |     |
| 23  | 3300 | 7400 | 4500 | 7500  | 3000 | 3600 |     |     |     |     |     |     |
| 24  | 3600 | 8500 | 6300 | 6100  | 3100 | 3900 |     |     |     |     |     |     |
| 25  | 3000 | 6300 | 6300 | 5600  | 3600 | 5600 |     |     |     |     |     |     |
| 26  | 4600 | 6900 | 6100 | 5300  | 4600 | 5400 |     |     |     |     |     |     |
| 27  | 4800 | 8300 | 8300 | 8900  | 3000 | 7100 |     |     |     |     |     |     |
| 28  | 4300 | 7900 | 9200 | 6000  | 4700 | 6200 |     |     |     |     |     |     |
| 29  | 4400 | 7600 | 8300 | 7700  | ---  | 3500 |     |     |     |     |     |     |
| 30  | 4300 | 9500 | 7300 | 6400  | ---  | 2400 |     |     |     |     |     |     |
| 31  | 5000 | ---  | 9200 | 6300  | ---  | ---  |     |     |     |     |     |     |
| MAX | 8400 | ---  | 9200 | 12000 | 8500 | 7100 |     |     |     |     |     |     |
| MIN | 2900 | ---  | 2200 | 5300  | 1200 | 1600 |     |     |     |     |     |     |

CHLORIDE, DISSOLVED (MG/L), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SAMPLING DEPTH 15.00(FT.), ONCE-DAILY

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR  | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|------|-----|-----|-----|-----|-----|-----|
| 1   | 6400  | ---   | 9600  | 11000 | 10000 | 7800 |     |     |     |     |     |     |
| 2   | 7900  | ---   | 8500  | 10000 | 10000 | 7600 |     |     |     |     |     |     |
| 3   | 8000  | ---   | 9500  | 12000 | 8200  | 9700 |     |     |     |     |     |     |
| 4   | 9000  | ---   | 10000 | 12000 | 8700  | 7100 |     |     |     |     |     |     |
| 5   | 7400  | ---   | 9500  | 12000 | 3400  | 4700 |     |     |     |     |     |     |
| 6   | 9400  | ---   | 9700  | 13000 | 2700  | 7400 |     |     |     |     |     |     |
| 7   | 9700  | ---   | 10000 | 13000 | 4400  | 5500 |     |     |     |     |     |     |
| 8   | 9500  | ---   | 9600  | 12000 | 4200  | 6200 |     |     |     |     |     |     |
| 9   | 9300  | ---   | 8800  | 12000 | 3700  | 7200 |     |     |     |     |     |     |
| 10  | 10000 | ---   | 7500  | 13000 | 3800  | 5500 |     |     |     |     |     |     |
| 11  | 9800  | ---   | 5400  | 12000 | 3300  | 4500 |     |     |     |     |     |     |
| 12  | 9900  | ---   | 8100  | 13000 | 2500  | 6000 |     |     |     |     |     |     |
| 13  | 9800  | ---   | 5600  | 13000 | 4700  | 5100 |     |     |     |     |     |     |
| 14  | 10000 | ---   | 5100  | 13000 | 3100  | 4000 |     |     |     |     |     |     |
| 15  | 10000 | ---   | 6500  | 12000 | 5700  | 5500 |     |     |     |     |     |     |
| 16  | 10000 | ---   | 4600  | 11000 | 8400  | 6200 |     |     |     |     |     |     |
| 17  | 10000 | ---   | 7900  | 12000 | 7900  | 5300 |     |     |     |     |     |     |
| 18  | 4500  | ---   | 7800  | 13000 | 11000 | 4700 |     |     |     |     |     |     |
| 19  | 5300  | 11000 | 6600  | 13000 | 8200  | 3700 |     |     |     |     |     |     |
| 20  | 5500  | 11000 | 7400  | 13000 | 7500  | 6000 |     |     |     |     |     |     |
| 21  | 4500  | 11000 | 7900  | 13000 | 7300  | 4300 |     |     |     |     |     |     |
| 22  | 5000  | 9200  | 8600  | 10000 | 5400  | 6500 |     |     |     |     |     |     |
| 23  | 6000  | 10000 | 9700  | 9700  | 4900  | 8600 |     |     |     |     |     |     |
| 24  | 6600  | 11000 | 9600  | 10000 | 6200  | 9300 |     |     |     |     |     |     |
| 25  | 6700  | 10000 | 6300  | 9100  | 7200  | 8200 |     |     |     |     |     |     |
| 26  | 8700  | 11000 | 10000 | 10000 | 7300  | 7200 |     |     |     |     |     |     |
| 27  | 8000  | 11000 | 12000 | 8900  | 7900  | 9100 |     |     |     |     |     |     |
| 28  | 5300  | 10000 | 12000 | 11000 | 8000  | 7600 |     |     |     |     |     |     |
| 29  | 7200  | 8900  | 11000 | 11000 | ---   | 5000 |     |     |     |     |     |     |
| 30  | 8200  | 10000 | 12000 | 11000 | ---   | 4000 |     |     |     |     |     |     |
| 31  | 9500  | ---   | 12000 | 9300  | ---   | ---  |     |     |     |     |     |     |
| MAX | 10000 | ---   | 12000 | 13000 | 11000 | 9700 |     |     |     |     |     |     |
| MIN | 4500  | ---   | 4600  | 8900  | 2500  | 3700 |     |     |     |     |     |     |

301305093151200 CALCASIEU RIVER AND PASS NEAR LAKE CHARLES, LA (CE 73550)--Continued

CHLORIDE, DISSOLVED (MG/L), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
SAMPLING DEPTH 25.00 (FT.), ONCE-DAILY

| DAY | FEET  | NOV   | DEC   | JAN   | FEB   | MAR   | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|
| 1   | 8200  | ---   | 11000 | 13000 | 12000 | 9800  |     |     |     |     |     |     |
| 2   | 8100  | ---   | 9900  | 11000 | 11000 | 9900  |     |     |     |     |     |     |
| 3   | 9000  | ---   | 10000 | 13000 | 12000 | 11000 |     |     |     |     |     |     |
| 4   | 10000 | ---   | 11000 | 13000 | 11000 | 9500  |     |     |     |     |     |     |
| 5   | 9500  | ---   | 11000 | 13000 | 9500  | 8300  |     |     |     |     |     |     |
| 6   | 10000 | ---   | 11000 | 14000 | 3800  | 8900  |     |     |     |     |     |     |
| 7   | 10000 | ---   | 11000 | 13000 | 7600  | 8300  |     |     |     |     |     |     |
| 8   | 10000 | ---   | 11000 | 13000 | 8500  | 8400  |     |     |     |     |     |     |
| 9   | 10000 | ---   | 11000 | 13000 | 7500  | 9800  |     |     |     |     |     |     |
| 10  | 10000 | ---   | 9400  | 13000 | 8900  | 8200  |     |     |     |     |     |     |
| 11  | 10000 | ---   | 7500  | 13000 | 5800  | 7500  |     |     |     |     |     |     |
| 12  | 10000 | ---   | 8400  | 14000 | 7800  | 8200  |     |     |     |     |     |     |
| 13  | 11000 | ---   | 7500  | 14000 | 8000  | 8000  |     |     |     |     |     |     |
| 14  | 11000 | ---   | 7300  | 14000 | 6500  | 8700  |     |     |     |     |     |     |
| 15  | ---   | ---   | 8900  | 14000 | 8500  | 8200  |     |     |     |     |     |     |
| 16  | ---   | ---   | 8300  | 13000 | 10000 | 8400  |     |     |     |     |     |     |
| 17  | 11000 | ---   | 9100  | 12000 | 9000  | 8300  |     |     |     |     |     |     |
| 18  | 7300  | ---   | 9100  | 13000 | 13000 | 7800  |     |     |     |     |     |     |
| 19  | 8200  | 12000 | 9600  | 13000 | 9500  | 7400  |     |     |     |     |     |     |
| 20  | 7700  | 12000 | 8900  | 13000 | 9400  | 7600  |     |     |     |     |     |     |
| 21  | 7000  | 11000 | 9500  | 13000 | 9400  | 7100  |     |     |     |     |     |     |
| 22  | 8000  | 11000 | 11000 | 11000 | 8100  | 8900  |     |     |     |     |     |     |
| 23  | 8800  | 11000 | 11000 | 11000 | 8200  | 9900  |     |     |     |     |     |     |
| 24  | 7900  | 11000 | 11000 | 12000 | 8300  | 10000 |     |     |     |     |     |     |
| 25  | 8800  | 11000 | 11000 | 11000 | 8700  | 9000  |     |     |     |     |     |     |
| 26  | 8700  | 11000 | 11000 | 12000 | 8800  | 9500  |     |     |     |     |     |     |
| 27  | 8400  | ---   | 12000 | 12000 | 9200  | 10000 |     |     |     |     |     |     |
| 28  | 8400  | 12000 | 13000 | 12000 | 8600  | 8700  |     |     |     |     |     |     |
| 29  | 8000  | 11000 | 12000 | 12000 | ---   | 6400  |     |     |     |     |     |     |
| 30  | 9200  | 10000 | 13000 | 13000 | ---   | 4400  |     |     |     |     |     |     |
| 31  | 10000 | ---   | 13000 | 12000 | ---   | ---   |     |     |     |     |     |     |
| MAX | 11000 | ---   | 13000 | 14000 | 13000 | 11000 |     |     |     |     |     |     |
| MIN | 7000  | ---   | 7300  | 11000 | 3800  | 4400  |     |     |     |     |     |     |

## CALCASIEU RIVER BASIN

300514093172800 INTRACOASTAL WATERWAY AT CALCASIEU LOCK, NEAR GRAND LAKE, LA (CE 76880)

LOCATION.--Lat 30°05'14", long 93°17'28", T.11 S., R.9 W., Calcasieu Parish, Hydrologic Unit 08090206, 4.1 mi (6.6 km) north of Grand Lake.

DRAINAGE AREA.--Indeterminate.

## 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, 33.0°C July 3, 1977; minimum daily, 4.5°C Jan. 20, 21, 1978.

CHLORIDE: Maximum daily, 13,000 mg/L Nov. 14, 1981; minimum daily, 20 mg/L Aug. 10, 1075, May 31, June 3, 4, 1980.

## EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 31.5°C July 17, Aug. 16, 19; minimum daily, 8.5°C Feb. 13, 14.

CHLORIDE: Maximum daily, 13,000 mg/L Nov. 14; minimum daily, 120 mg/L June 8-10, 14.

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   | 29.0 | 23.0 | 12.0 | ---  | 16.0 | 15.0 | 21.0 | 23.0 | 25.0 | 29.5 | 29.0 | 29.0 |
| 2   | 25.0 | 23.0 | 14.0 | ---  | 12.5 | 17.0 | 21.0 | 23.0 | 25.0 | 29.5 | 30.5 | 29.0 |
| 3   | 26.0 | 23.0 | 14.0 | ---  | 10.0 | 17.0 | 21.0 | 23.0 | 27.5 | 29.0 | 30.5 | 29.0 |
| 4   | 24.0 | 23.0 | 14.0 | ---  | 12.5 | 17.0 | 22.0 | 23.0 | 26.0 | 28.5 | 30.5 | 29.0 |
| 5   | 24.0 | 20.0 | 14.0 | ---  | 14.0 | 18.0 | 21.0 | 23.0 | 27.5 | 28.5 | 30.5 | 29.0 |
| 6   | 23.0 | 20.0 | 14.0 | ---  | 12.0 | 17.0 | 19.5 | 24.0 | 27.5 | 27.0 | 30.5 | 28.0 |
| 7   | 23.0 | 20.0 | 15.0 | ---  | 10.5 | 16.0 | 20.0 | 20.0 | 28.0 | 27.0 | 29.5 | 28.0 |
| 8   | 23.0 | 23.0 | 17.0 | ---  | 11.0 | 16.0 | 21.0 | 25.0 | 28.0 | 27.5 | 26.0 | 28.0 |
| 9   | 23.0 | 23.0 | 17.0 | ---  | 10.0 | 15.0 | 21.0 | 25.0 | 28.0 | 29.0 | 28.5 | 28.0 |
| 10  | 23.0 | 23.0 | 15.0 | ---  | 13.5 | 16.0 | 22.0 | 24.0 | 28.5 | ---  | ---  | 28.0 |
| 11  | 23.0 | 23.0 | 15.0 | ---  | 10.5 | 16.0 | 22.0 | 22.0 | 27.5 | 28.0 | ---  | 28.0 |
| 12  | 23.0 | 23.0 | 15.0 | ---  | 11.5 | 16.0 | 24.0 | 23.0 | 24.0 | 30.0 | ---  | 28.0 |
| 13  | 24.0 | 20.0 | ---  | ---  | 8.5  | 16.0 | 24.0 | 24.0 | 24.5 | 28.0 | 29.5 | 28.5 |
| 14  | 24.0 | 20.0 | ---  | ---  | 8.5  | 16.0 | 24.0 | 25.0 | 27.0 | 30.0 | 30.0 | 28.0 |
| 15  | 24.0 | 20.0 | ---  | ---  | 9.0  | 17.0 | 24.0 | 24.0 | 27.0 | 27.5 | 30.0 | 28.0 |
| 16  | 24.0 | 20.0 | ---  | ---  | 10.0 | 17.0 | 25.0 | 24.0 | 26.0 | 29.0 | 31.5 | 28.0 |
| 17  | 24.0 | 20.0 | ---  | ---  | 10.5 | 17.0 | ---  | 25.0 | 27.5 | 31.5 | 30.5 | 28.0 |
| 18  | 22.0 | 20.0 | 14.5 | ---  | 11.5 | 17.0 | 25.0 | 24.0 | 27.5 | 30.5 | 30.5 | 25.5 |
| 19  | 22.0 | 20.0 | 14.5 | ---  | 12.5 | 16.0 | 25.0 | 25.0 | 27.5 | 29.0 | 31.5 | 24.5 |
| 20  | 22.0 | 20.0 | 14.5 | ---  | 14.0 | 16.0 | 25.0 | 22.0 | 27.5 | 31.0 | 30.5 | 24.0 |
| 21  | 22.0 | 20.0 | 10.0 | ---  | 15.0 | 16.0 | 25.0 | 25.0 | 27.5 | 28.5 | 29.5 | 24.5 |
| 22  | 23.0 | 20.0 | 10.0 | ---  | 15.5 | 16.0 | 25.0 | 25.0 | 27.5 | 30.5 | 28.5 | 24.5 |
| 23  | 23.0 | 20.0 | 11.0 | ---  | 15.0 | 16.0 | 25.0 | 25.0 | 27.5 | 29.0 | 29.5 | 25.0 |
| 24  | 23.0 | 20.0 | 11.0 | ---  | 15.5 | 16.0 | 25.0 | 25.0 | 27.5 | ---  | 29.5 | 25.0 |
| 25  | 23.0 | 14.0 | 10.5 | ---  | 15.0 | ---  | 23.0 | 25.0 | 26.0 | 29.0 | 29.5 | 26.0 |
| 26  | 23.0 | 14.0 | 10.5 | 10.0 | 15.0 | 16.0 | 23.0 | 25.0 | 26.0 | 30.5 | 28.0 | 26.0 |
| 27  | 23.0 | 14.0 | 10.5 | 10.0 | 15.0 | 19.0 | 25.0 | 25.0 | 26.0 | 28.5 | 28.0 | 26.0 |
| 28  | 23.0 | 10.0 | 10.5 | 11.5 | 16.0 | 19.0 | 25.0 | 27.0 | 26.0 | 28.0 | 28.0 | 26.0 |
| 29  | 23.0 | 10.0 | 10.5 | 12.5 | ---  | 20.0 | 25.0 | 27.0 | 26.0 | 28.0 | 28.0 | 26.0 |
| 30  | 23.0 | 10.0 | 10.5 | 14.0 | ---  | 20.0 | 25.0 | 27.0 | 26.0 | 29.0 | 28.0 | 26.0 |
| 31  | 23.0 | ---  | 10.5 | 12.5 | ---  | 21.0 | ---  | 27.0 | ---  | 29.5 | 28.0 | ---  |
| MAX | 29.0 | 23.0 | 17.0 | ---  | 16.0 | 21.0 | 25.0 | 27.0 | 28.5 | 31.5 | 31.5 | 29.0 |
| MIN | 22.0 | 10.0 | 10.0 | ---  | 8.5  | 15.0 | 19.5 | 20.0 | 24.0 | 27.0 | 26.0 | 24.0 |

300514093172800 INTRACOASTAL WATERWAY AT CALCASIEU LOCK, NEAR GRAND LAKE, LA (CE 76880)--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   | 10000 | 4600  | 2800 | 3900 | 8700  | 8900 | 3900  | 9500  | 6000 | 690  | 4500  | 10000 |
| 2   | 9500  | 7000  | ---  | 4700 | 9000  | 5100 | 7300  | 9800  | 5300 | 1600 | 3400  | 10000 |
| 3   | 9500  | 6300  | 3000 | 6200 | 7000  | 6000 | 7400  | 10000 | 300  | 920  | 2500  | 8100  |
| 4   | 9400  | 6400  | 4000 | 8400 | 11000 | 8700 | 6200  | 11000 | 480  | 1500 | 1800  | 7700  |
| 5   | 9000  | 4900  | 2400 | 5600 | 7800  | 5900 | 6900  | 11000 | 150  | 1600 | 2100  | 8300  |
| 6   | 8500  | 6900  | 3100 | 6500 | 6000  | 7800 | 5700  | 10000 | 150  | 920  | 1500  | 9400  |
| 7   | 8800  | 7200  | 5400 | 7000 | 2000  | 6200 | 5400  | 11000 | 130  | 1200 | 1600  | 8600  |
| 8   | 10000 | 7400  | 5400 | 7300 | 4100  | 5400 | 6800  | 11000 | 120  | 380  | 1900  | 7800  |
| 9   | 10000 | 8900  | 6900 | 6300 | 1900  | 7200 | 5500  | 11000 | 120  | 420  | 2700  | 7700  |
| 10  | 9200  | 9400  | 2600 | 5900 | 2200  | 6500 | 6300  | 11000 | 120  | 350  | ---   | 8300  |
| 11  | 9900  | 8000  | 4500 | 8400 | 3500  | 3900 | 9900  | 11000 | 130  | 280  | ---   | 8500  |
| 12  | ---   | 11000 | 1800 | 6700 | 2800  | 3900 | 8100  | 8400  | 130  | 290  | 4800  | 7800  |
| 13  | 9400  | 9800  | ---  | 5600 | 3200  | 5000 | 9400  | 10000 | 130  | 510  | 4600  | 8600  |
| 14  | 9300  | 13000 | ---  | 7900 | 2100  | 9200 | 11000 | 10000 | 120  | 270  | 4000  | 8500  |
| 15  | 9500  | 12000 | ---  | 6600 | 1300  | 7400 | 10000 | 10000 | 140  | 220  | 6000  | 9400  |
| 16  | 10000 | 12000 | ---  | 5100 | 2300  | 7100 | 9500  | 10000 | 130  | 270  | 5700  | 8100  |
| 17  | 11000 | 12000 | ---  | 7800 | 1800  | 6400 | 9100  | 10000 | 690  | 240  | 5700  | 7900  |
| 18  | 11000 | 12000 | 3400 | 5900 | 1400  | 5500 | 8700  | 11000 | 920  | 260  | 6800  | 7600  |
| 19  | 11000 | 11000 | 5200 | 5400 | 2100  | 5700 | 9100  | 9900  | 700  | 250  | 6200  | 9300  |
| 20  | 8300  | 10000 | 3800 | 2100 | 1800  | 5400 | 9600  | 8800  | 590  | 250  | 5700  | 9300  |
| 21  | 7000  | 10000 | 2300 | 6200 | 4000  | 7500 | 9700  | 9700  | 770  | 720  | 8000  | 8500  |
| 22  | 5000  | 11000 | 6500 | 6500 | 1200  | 6800 | 9800  | 10000 | 540  | 290  | 7700  | 8600  |
| 23  | 4500  | 10000 | 9800 | 6600 | 1800  | 6100 | 10000 | 10000 | 490  | 900  | 8800  | 8000  |
| 24  | 4500  | 9800  | 6200 | 5100 | 1500  | 6800 | 9800  | 10000 | 510  | 1200 | 9500  | 7200  |
| 25  | 4000  | 9200  | 5000 | 4200 | 2100  | ---  | 9700  | 9900  | 570  | 3400 | 8400  | 7300  |
| 26  | 3500  | 8600  | 3800 | 6100 | 4700  | 6500 | 10000 | 11000 | 440  | 5400 | 10000 | 7600  |
| 27  | 5300  | 5300  | 4500 | 8600 | 5700  | 5800 | 9700  | 10000 | 510  | 5400 | 12000 | 8400  |
| 28  | 6000  | 5300  | 4000 | 9100 | 8900  | 6900 | 10000 | 10000 | 510  | 3600 | 10000 | 8300  |
| 29  | 5300  | 6200  | 4000 | 6100 | ---   | 7700 | 9500  | 10000 | 600  | 2600 | 10000 | 8700  |
| 30  | 5600  | 1600  | 5800 | 6600 | ---   | 5000 | 9500  | 11000 | 1200 | 3700 | 10000 | 8400  |
| 31  | 4800  | ---   | 4900 | 8700 | ---   | 7200 | ---   | 11000 | ---  | 3500 | 11000 | ---   |
| MAX | 11000 | 13000 | 9800 | 9100 | 11000 | 9200 | 11000 | 11000 | 6000 | 5400 | 12000 | 10000 |
| MIN | 3500  | 1600  | 1800 | 2100 | 1200  | 3900 | 3900  | 8400  | 120  | 220  | 1500  | 7200  |

## SABINE RIVER BASIN

08030500 SABINE RIVER NEAR RULIFF, TX  
(Radiochemical and national stream-quality accounting network)

LOCATION.--Lat 30°18'13", long 93°44'37", Calcasieu Parish, Louisiana-Newton County, Texas State line, Hydrologic Unit 12010005, at downstream side of bridge on State Highway 12, 2.4 mi (3.9 km) north of Ruliff, 4.2 mi (6.8 km) upstream from the Kansas City Southern Railway Co. bridge, 4.5 mi (7.2 km) downstream from Cypress Creek, and at mile 40.2 (64.7 km).

DRAINAGE AREA.--9,329 mi<sup>2</sup> (24,162 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1924 to current year.

REVISED RECORDS.--WSP 1282: 1941(M), 1942. WSP 1442: 1925-29, 1937-39, 1943. WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4.08 ft (1.244 m) National Geodetic Vertical Datum of 1929. Prior to Mar. 1, 1941, nonrecording gage at Kansas City Southern Railway Co. bridge, 4.2 mi (6.8 km) downstream and at datum 2.02 ft (0.616 m) lower. Mar. 1, 1941 to Dec. 8, 1948, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records fair. Flow is partly regulated by Toledo Bend Reservoir (station 08025350) 116.3 mi (187.1 km) upstream.

AVERAGE DISCHARGE.--42 years (water years 1925-66) prior to completion of Toledo Bend Reservoir, 8,422 ft<sup>3</sup>/s (238.5 m<sup>3</sup>/s), 6,102,000 acre-ft/yr (7.52 km<sup>3</sup>/yr); 15 years (water years 1967-81) regulated, 7,419 ft<sup>3</sup>/s (210.1 m<sup>3</sup>/s), 5,375,000 acre-ft/yr (6.63 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 121,000 ft<sup>3</sup>/s (3,430 m<sup>3</sup>/s) May 22, 1953, gage height, 19.98 ft (6.090 m); minimum, 270 ft<sup>3</sup>/s (7.65 m<sup>3</sup>/s) Sept. 27-30, Oct. 1-3, 17-20, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1835, 22.2 ft (6.77 m) in May or June 1884 (adjusted to present site and datum on basis of slope of flood of June 8, 9, 1950); flood of Apr. 26-29, 1913 reached a stage of 19.5 ft (5.94 m), present site and datum, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,100 ft<sup>3</sup>/s (314 m<sup>3</sup>/s) June 11, gage height, 13.12 ft (3.999 m); minimum daily, 732 ft<sup>3</sup>/s (20.7 m<sup>3</sup>/s) Oct. 15, Nov. 12.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB    | MAR    | APR   | MAY    | JUN    | JUL    | AUG    | SEP   |
|-------|-------|-------|-------|-------|--------|--------|-------|--------|--------|--------|--------|-------|
| 1     | 7460  | 1340  | 1720  | 1140  | 1820   | 1340   | 1220  | 1590   | 4430   | 5310   | 8420   | 2470  |
| 2     | 5640  | 1180  | 1340  | 1060  | 2380   | 1440   | 1460  | 1090   | 2260   | 5300   | 8290   | 1470  |
| 3     | 3110  | 1170  | 1160  | 1180  | 3600   | 1260   | 1350  | 981    | 1690   | 5760   | 8160   | 1320  |
| 4     | 1610  | 1160  | 1280  | 1070  | 4650   | 1300   | 1400  | 1220   | 1950   | 6150   | 8130   | 1670  |
| 5     | 1130  | 928   | 1240  | 1150  | 4490   | 2650   | 1250  | 1200   | 3250   | 5350   | 8300   | 2180  |
| 6     | 949   | 1020  | 1270  | 1000  | 4110   | 5150   | 1310  | 1550   | 4310   | 4790   | 8330   | 2530  |
| 7     | 870   | 982   | 1140  | 949   | 3830   | 7220   | 1160  | 2730   | 6380   | 5720   | 8180   | 2590  |
| 8     | 822   | 1020  | 1220  | 1170  | 3640   | 7710   | 1050  | 2920   | 8360   | 6910   | 8070   | 2260  |
| 9     | 1020  | 963   | 1380  | 1180  | 3370   | 6110   | 1210  | 2190   | 9750   | 8200   | 8080   | 1500  |
| 10    | 1170  | 999   | 1990  | 1350  | 2950   | 4130   | 1120  | 1700   | 10700  | 9170   | 8080   | 1380  |
| 11    | 1190  | 941   | 2350  | 1230  | 2660   | 2990   | 1200  | 1350   | 10800  | 9780   | 8110   | 1430  |
| 12    | 1180  | 784   | 2420  | 1290  | 2410   | 2280   | 1090  | 1470   | 9710   | 9500   | 8170   | 1400  |
| 13    | 1160  | 926   | 2210  | 1090  | 2190   | 1910   | 1160  | 1510   | 9000   | 8970   | 8250   | 1370  |
| 14    | 919   | 931   | 1710  | 1000  | 1910   | 1700   | 1030  | 1470   | 8550   | 6260   | 8290   | 1470  |
| 15    | 732   | 965   | 1390  | 1190  | 1690   | 1580   | 879   | 1190   | 7940   | 3930   | 8230   | 1800  |
| 16    | 849   | 993   | 1210  | 1110  | 1550   | 1490   | 955   | 1220   | 6420   | 4230   | 8200   | 1590  |
| 17    | 950   | 1130  | 1100  | 1200  | 1470   | 1400   | 1050  | 1160   | 4650   | 5240   | 8200   | 1810  |
| 18    | 1400  | 1170  | 1090  | 1080  | 1400   | 1360   | 1110  | 1410   | 3970   | 4600   | 8230   | 1870  |
| 19    | 1840  | 1380  | 1360  | 1200  | 1340   | 1480   | 1200  | 1750   | 3840   | 3410   | 8210   | 1660  |
| 20    | 2010  | 1540  | 1430  | 1230  | 1360   | 1370   | 1280  | 1880   | 3640   | 4530   | 7810   | 1480  |
| 21    | 1890  | 1690  | 1330  | 1410  | 1560   | 1460   | 1280  | 1560   | 3500   | 5850   | 6780   | 1490  |
| 22    | 1570  | 1650  | 1240  | 1740  | 1470   | 1340   | 1270  | 1420   | 3250   | 6460   | 5780   | 1590  |
| 23    | 1200  | 1460  | 1040  | 1920  | 1560   | 1430   | 1460  | 1140   | 2130   | 6140   | 5230   | 1160  |
| 24    | 967   | 1600  | 990   | 1870  | 1380   | 1380   | 2190  | 1190   | 1660   | 6240   | 4320   | 1180  |
| 25    | 843   | 1460  | 1190  | 1590  | 1310   | 1370   | 2690  | 2890   | 2700   | 6770   | 2500   | 1270  |
| 26    | 780   | 1560  | 1110  | 1550  | 1500   | 1490   | 3020  | 4680   | 3190   | 7200   | 2140   | 1270  |
| 27    | 940   | 2190  | 1220  | 1320  | 1380   | 1340   | 3120  | 5610   | 3470   | 7460   | 3670   | 1260  |
| 28    | 958   | 3730  | 1090  | 1550  | 1460   | 1390   | 3170  | 6260   | 4320   | 7520   | 4330   | 1350  |
| 29    | 853   | 3560  | 1190  | 2640  | ---    | 1270   | 3190  | 6820   | 5100   | 7460   | 4580   | 1510  |
| 30    | 1390  | 2330  | 1020  | 3030  | ---    | 1350   | 2650  | 7100   | 5390   | 7740   | 4740   | 1080  |
| 31    | 1570  | ---   | 929   | 2600  | ---    | 1210   | ---   | 6760   | ---    | 8280   | 4200   | ---   |
| TOTAL | 48972 | 42752 | 42359 | 44089 | 64440  | 70900  | 47524 | 77011  | 156310 | 200230 | 212010 | 48410 |
| MEAN  | 1580  | 1425  | 1366  | 1422  | 2301   | 2287   | 1584  | 2484   | 5210   | 6459   | 6839   | 1614  |
| MAX   | 7460  | 3730  | 2420  | 3030  | 4650   | 7710   | 3190  | 7100   | 10800  | 9780   | 8420   | 2590  |
| MIN   | 732   | 784   | 929   | 949   | 1310   | 1210   | 879   | 981    | 1660   | 3410   | 2140   | 1080  |
| AC-FT | 97140 | 94800 | 84020 | 87450 | 127800 | 140600 | 94260 | 152800 | 310000 | 397200 | 420500 | 96020 |

CAL YR 1980 TOTAL 2995121 MEAN 8183 MAX 40000 MIN 732 AC-FT 5941000  
WTR YR 1981 TOTAL 1055007 MEAN 2890 MAX 10800 MIN 732 AC-FT 2093000

08030500 SABINE RIVER NEAR RULIFF, TX--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1946, 1948 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1945 to September 1946, October 1947 to current year.

WATER TEMPERATURES: October 1947 to current year.

REMARKS.--Data furnished by Texas District. Daily values for the 1981 water year are available from the Texas report.

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

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>NUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) |
|-------|------|-------------------------------------------------|---------------------------------------------------|---------------|-----------------------------|---------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| OCT   |      |                                                 |                                                   |               |                             |                                             |                              |                                     |                                                                |                                                                |
| 21... | 1140 | 1900                                            | 140                                               | 6.9           | 21.0                        | --                                          | 24                           | 7.9                                 | 88                                                             | 1.1                                                            |
| NOV   |      |                                                 |                                                   |               |                             |                                             |                              |                                     |                                                                |                                                                |
| 19... | 1335 | 1400                                            | 164                                               | 6.9           | 13.0                        | 50                                          | 7.6                          | --                                  | --                                                             | .8                                                             |
| DEC   |      |                                                 |                                                   |               |                             |                                             |                              |                                     |                                                                |                                                                |
| 16... | 1330 | 1210                                            | 170                                               | 7.0           | 12.0                        | 80                                          | 6.8                          | 10.9                                | 100                                                            | 1.0                                                            |
| JAN   |      |                                                 |                                                   |               |                             |                                             |                              |                                     |                                                                |                                                                |
| 21... | 0950 | 1370                                            | 156                                               | 7.3           | 8.0                         | 100                                         | 15                           | 13.2                                | 110                                                            | 1.7                                                            |
| FEB   |      |                                                 |                                                   |               |                             |                                             |                              |                                     |                                                                |                                                                |
| 26... | 1330 | 1530                                            | 153                                               | 7.0           | 16.5                        | 50                                          | 17                           | 8.6                                 | 87                                                             | 1.1                                                            |
| MAR   |      |                                                 |                                                   |               |                             |                                             |                              |                                     |                                                                |                                                                |
| 17... | 0940 | 1410                                            | 136                                               | 6.9           | 16.0                        | --                                          | 19                           | 10.0                                | 99                                                             | 1.6                                                            |
| APR   |      |                                                 |                                                   |               |                             |                                             |                              |                                     |                                                                |                                                                |
| 22... | 1010 | 1280                                            | 170                                               | 7.4           | 25.0                        | 40                                          | 14                           | 7.9                                 | 94                                                             | 1.1                                                            |
| MAY   |      |                                                 |                                                   |               |                             |                                             |                              |                                     |                                                                |                                                                |
| 27... | 1555 | 5740                                            | 170                                               | 7.0           | 25.5                        | 30                                          | 25                           | 8.5                                 | 104                                                            | .9                                                             |
| JUN   |      |                                                 |                                                   |               |                             |                                             |                              |                                     |                                                                |                                                                |
| 23... | 0800 | 2270                                            | 145                                               | 6.7           | 29.0                        | --                                          | 16                           | 6.9                                 | 88                                                             | .8                                                             |
| JUL   |      |                                                 |                                                   |               |                             |                                             |                              |                                     |                                                                |                                                                |
| 29... | 1330 | 7470                                            | 156                                               | 7.1           | 24.5                        | 10                                          | 15                           | --                                  | --                                                             | --                                                             |
| AUG   |      |                                                 |                                                   |               |                             |                                             |                              |                                     |                                                                |                                                                |
| 12... | 1010 | 8160                                            | 156                                               | 6.9           | 29.0                        | --                                          | 15                           | 6.1                                 | 78                                                             | 1.4                                                            |
| SEP   |      |                                                 |                                                   |               |                             |                                             |                              |                                     |                                                                |                                                                |
| 22... | 1015 | 1650                                            | 160                                               | 6.6           | 23.5                        | --                                          | 13                           | 9.7                                 | 111                                                            | .7                                                             |

| DATE  | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>FIELD<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) |
|-------|----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|
| OCT   |                                                                |                                                                    |                                        |                                                        |                                              |                                                      |                                              |                                                     |                                                 |                                               |
| 21... | 290                                                            | 40                                                                 | 22                                     | 9                                                      | 5.8                                          | 1.8                                                  | 18                                           | 2.3                                                 | 18                                              | 19                                            |
| NOV   |                                                                |                                                                    |                                        |                                                        |                                              |                                                      |                                              |                                                     |                                                 |                                               |
| 19... | 80                                                             | 48                                                                 | 27                                     | 2                                                      | 7.3                                          | 2.1                                                  | 21                                           | 3.0                                                 | 24                                              | 21                                            |
| DEC   |                                                                |                                                                    |                                        |                                                        |                                              |                                                      |                                              |                                                     |                                                 |                                               |
| 16... | 48                                                             | K16                                                                | 26                                     | 4                                                      | 7.1                                          | 2.0                                                  | 23                                           | 2.2                                                 | 22                                              | 32                                            |
| JAN   |                                                                |                                                                    |                                        |                                                        |                                              |                                                      |                                              |                                                     |                                                 |                                               |
| 21... | 310                                                            | 410                                                                | 26                                     | 5                                                      | 6.8                                          | 2.1                                                  | 22                                           | 2.0                                                 | 21                                              | 24                                            |
| FEB   |                                                                |                                                                    |                                        |                                                        |                                              |                                                      |                                              |                                                     |                                                 |                                               |
| 26... | 52                                                             | K16                                                                | 26                                     | 3                                                      | 6.8                                          | 2.1                                                  | 19                                           | 2.1                                                 | 23                                              | 22                                            |
| MAR   |                                                                |                                                                    |                                        |                                                        |                                              |                                                      |                                              |                                                     |                                                 |                                               |
| 17... | 20                                                             | K18                                                                | 23                                     | 0                                                      | 6.3                                          | 1.8                                                  | 18                                           | 1.9                                                 | 24                                              | 13                                            |
| APR   |                                                                |                                                                    |                                        |                                                        |                                              |                                                      |                                              |                                                     |                                                 |                                               |
| 22... | 20                                                             | 88                                                                 | 29                                     | 8                                                      | 7.5                                          | 2.5                                                  | 19                                           | 2.7                                                 | 21                                              | 26                                            |
| MAY   |                                                                |                                                                    |                                        |                                                        |                                              |                                                      |                                              |                                                     |                                                 |                                               |
| 27... | 84                                                             | 230                                                                | 31                                     | 14                                                     | 8.1                                          | 2.6                                                  | 20                                           | 2.9                                                 | 17                                              | 24                                            |
| JUN   |                                                                |                                                                    |                                        |                                                        |                                              |                                                      |                                              |                                                     |                                                 |                                               |
| 23... | 28                                                             | 20                                                                 | 28                                     | 8                                                      | 7.1                                          | 2.4                                                  | 15                                           | 2.7                                                 | 20                                              | 10                                            |
| JUL   |                                                                |                                                                    |                                        |                                                        |                                              |                                                      |                                              |                                                     |                                                 |                                               |
| 29... | --                                                             | --                                                                 | 31                                     | 11                                                     | 7.6                                          | 2.8                                                  | 16                                           | 2.7                                                 | 20                                              | 8.0                                           |
| AUG   |                                                                |                                                                    |                                        |                                                        |                                              |                                                      |                                              |                                                     |                                                 |                                               |
| 12... | 180                                                            | 150                                                                | 30                                     | 14                                                     | 7.2                                          | 2.9                                                  | 17                                           | 2.6                                                 | 16                                              | 11                                            |
| SEP   |                                                                |                                                                    |                                        |                                                        |                                              |                                                      |                                              |                                                     |                                                 |                                               |
| 22... | 96                                                             | 2100                                                               | 27                                     | 9                                                      | 7.0                                          | 2.4                                                  | 19                                           | 2.9                                                 | 18                                              | <5.0                                          |

&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).



## SABINE RIVER BASIN

08030500 SABINE RIVER NEAR RULIFF, TX--Continued

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

| DATE         | CHLORIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUORIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>RESIDUE<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) | SOLIDS,<br>NON-<br>VOLA-<br>TILE,<br>SUS-<br>PENDED<br>(MG/L) | SOLIDS,<br>VOLA-<br>TILE,<br>SUS-<br>PENDED<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) |
|--------------|------------------------------------------------|-----------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|
| OCT<br>21... | 21                                             | .1                                            | 11                                                | 93                                                                 | 87                                                                  | --                                                                  | --                                                            | --                                                    | .12                                                  | .08                                                           |
| NOV<br>19... | 21                                             | .1                                            | 13                                                | 111                                                                | 103                                                                 | 14                                                                  | 0                                                             | 18                                                    | .09                                                  | .09                                                           |
| DEC<br>16... | 17                                             | .1                                            | 15                                                | 121                                                                | 112                                                                 | 10                                                                  | 7                                                             | 3                                                     | .11                                                  | .10                                                           |
| JAN<br>21... | 20                                             | .1                                            | 12                                                | 104                                                                | 99                                                                  | 8                                                                   | 0                                                             | 8                                                     | .15                                                  | .03                                                           |
| FEB<br>26... | 18                                             | .0                                            | 13                                                | 100                                                                | 102                                                                 | 15                                                                  | 14                                                            | 1                                                     | .00                                                  | .00                                                           |
| MAR<br>17... | 20                                             | .1                                            | 15                                                | 94                                                                 | 90                                                                  | --                                                                  | --                                                            | --                                                    | .09                                                  | .12                                                           |
| APR<br>22... | 18                                             | .1                                            | 11                                                | 119                                                                | 102                                                                 | 15                                                                  | 10                                                            | 5                                                     | .11                                                  | .11                                                           |
| MAY<br>27... | 23                                             | .1                                            | 7.1                                               | 109                                                                | 96                                                                  | 52                                                                  | 32                                                            | 20                                                    | .05                                                  | .07                                                           |
| JUN<br>23... | 20                                             | .1                                            | 10                                                | 94                                                                 | 75                                                                  | --                                                                  | --                                                            | --                                                    | .06                                                  | .07                                                           |
| JUL<br>29... | 27                                             | .4                                            | 6.5                                               | 96                                                                 | 82                                                                  | 79                                                                  | 55                                                            | 24                                                    | 1.2                                                  | .11                                                           |
| AUG<br>12... | 24                                             | .1                                            | 5.9                                               | 92                                                                 | 83                                                                  | --                                                                  | --                                                            | --                                                    | .08                                                  | .08                                                           |
| SEP<br>22... | 21                                             | .1                                            | 12                                                | 112                                                                | 85                                                                  | --                                                                  | --                                                            | --                                                    | .18                                                  | .19                                                           |

| DATE         | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) | CARBON,<br>ORGANIC<br>SUS-<br>PENDED<br>TOTAL<br>(MG/L<br>AS C) |
|--------------|------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|
| OCT<br>21... | .09                                                  | .07                                                           | .67                                                                 | 1.8                                                                          | .07                                         | .04                                                  | 8.3                                           | --                                                     | --                                                              |
| NOV<br>19... | .02                                                  | .04                                                           | .67                                                                 | .54                                                                          | .05                                         | .04                                                  | --                                            | 6.0                                                    | .5                                                              |
| DEC<br>16... | .12                                                  | .08                                                           | .64                                                                 | .69                                                                          | .08                                         | .05                                                  | 13                                            | --                                                     | --                                                              |
| JAN<br>21... | .05                                                  | .17                                                           | .66                                                                 | .66                                                                          | .05                                         | .04                                                  | --                                            | 11                                                     | .5                                                              |
| FEB<br>26... | .20                                                  | .04                                                           | .83                                                                 | .47                                                                          | .13                                         | .04                                                  | 8.2                                           | --                                                     | --                                                              |
| MAR<br>17... | .12                                                  | .00                                                           | .66                                                                 | .51                                                                          | .06                                         | .02                                                  | 11                                            | --                                                     | --                                                              |
| APR<br>22... | .10                                                  | .13                                                           | 1.0                                                                 | .80                                                                          | .06                                         | .02                                                  | 5.9                                           | --                                                     | --                                                              |
| MAY<br>27... | .15                                                  | .04                                                           | .65                                                                 | .51                                                                          | .09                                         | .02                                                  | --                                            | 5.6                                                    | --                                                              |
| JUN<br>23... | .07                                                  | .08                                                           | .90                                                                 | .98                                                                          | .07                                         | .04                                                  | 7.1                                           | --                                                     | --                                                              |
| JUL<br>29... | .28                                                  | .19                                                           | 1.1                                                                 | 1.1                                                                          | .05                                         | .04                                                  | --                                            | 5.1                                                    | .3                                                              |
| AUG<br>12... | .10                                                  | .10                                                           | .61                                                                 | .55                                                                          | .06                                         | .02                                                  | 6.3                                           | --                                                     | --                                                              |
| SEP<br>22... | .14                                                  | .09                                                           | .65                                                                 | .68                                                                          | .04                                         | .02                                                  | 3.7                                           | --                                                     | --                                                              |

## SABINE RIVER BASIN

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08030500 SABINE RIVER NEAR RULIFF, TX--Continued

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

| DATE         | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS RA) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) |
|--------------|-------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|
| NOV<br>19... | 1                                   | 0                                            | 0                                                       | 50                                           | 2                                                       | <1                                           | 0                                                              | 0                                                   | 0                                                       | <3                                           |
| JAN<br>21... | 0                                   | 0                                            | 100                                                     | 40                                           | 1                                                       | <1                                           | 0                                                              | 0                                                   | 0                                                       | <3                                           |
| MAY<br>27... | 1                                   | 1                                            | 100                                                     | 200                                          | 2                                                       | <1                                           | 0                                                              | 10                                                  | 0                                                       | <3                                           |
| JUL<br>29... | 8                                   | 0                                            | 0                                                       | 50                                           | 1                                                       | <1                                           | 20                                                             | 10                                                  | 1                                                       | <3                                           |

| DATE         | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) |
|--------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|
| NOV<br>19... | 15                                                      | 5                                            | 820                                                   | 250                                        | 15                                                    | 11                                         | 90                                                              | 50                                                   | 2.0                                                     |
| JAN<br>21... | 13                                                      | 5                                            | 830                                                   | 280                                        | 10                                                    | 10                                         | 110                                                             | 90                                                   | .4                                                      |
| MAY<br>27... | 7                                                       | 3                                            | 1400                                                  | 20                                         | 4                                                     | 0                                          | 200                                                             | 80                                                   | .5                                                      |
| JUL<br>29... | 4                                                       | 2                                            | 650                                                   | 240                                        | 5                                                     | 7                                          | 130                                                             | 69                                                   | .5                                                      |

| DATE         | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AG) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|---------------------------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| NOV<br>19... | .5                                           | 6                                                       | 1                                            | 0                                          | 0                                                   | 0                                                       | 0                                            | 50                                                    | 20                                         |
| JAN<br>21... | .4                                           | 8                                                       | 3                                            | 0                                          | 0                                                   | 0                                                       | 0                                            | 10                                                    | 20                                         |
| MAY<br>27... | .1                                           | 2                                                       | 2                                            | 0                                          | 0                                                   | 0                                                       | 0                                            | 10                                                    | 6                                          |
| JUL<br>29... | .2                                           | 2                                                       | 3                                            | 0                                          | 0                                                   | 1                                                       | 0                                            | 40                                                    | 10                                         |

&lt; Actual value is known to be less than the value shown.

## SABINE RIVER BASIN

08030500 SABINE RIVER NEAR RULIFF, TX--Continued

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

| DATE         | GROSS<br>ALPHA,<br>DIS-<br>SOLVED<br>(UG/L<br>AS<br>U-NAT) | GROSS<br>ALPHA,<br>SUSP.<br>TOTAL<br>(UG/L<br>AS<br>U-NAT) | GROSS<br>ALPHA,<br>DIS-<br>SOLVED<br>(PCI/L<br>AS<br>U-NAT) | GROSS<br>ALPHA,<br>SUSP.<br>TOTAL<br>(PCI/L<br>AS<br>U-NAT) | GROSS<br>BETA,<br>DIS-<br>SOLVED<br>(PCI/L<br>AS<br>CS-137) | GROSS<br>BETA,<br>SUSP.<br>TOTAL<br>(PCI/L<br>AS<br>CS-137) | GROSS<br>BETA,<br>DIS-<br>SOLVED<br>(PCI/L<br>AS<br>SR/<br>YT-90) | GROSS<br>BETA,<br>SUSP.<br>TOTAL<br>(PCI/L<br>AS<br>SR/<br>YT-90) | RADIUM<br>226,<br>DIS-<br>SOLVED,<br>RADON<br>METHOD<br>(PCI/L) | URANIUM<br>DIS-<br>SOLVED,<br>EXTRAC-<br>TION<br>(UG/L) |
|--------------|------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|
| OCT<br>21... | <6.3                                                       | 2.0                                                        | <4.3                                                        | 1.4                                                         | <8.5                                                        | 1.5                                                         | <8.5                                                              | 1.4                                                               | .06                                                             | .23                                                     |
| AUG<br>12... | <2.5                                                       | 1.2                                                        | --                                                          | .8                                                          | 4.0                                                         | 1.0                                                         | 3.8                                                               | .9                                                                | .08                                                             | <.01                                                    |

| DATE         | PHYTO-<br>PLANK-<br>TON,<br>TOTAL<br>(CELLS<br>PER ML) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|--------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| OCT<br>21... | --                                                     | 30                                        | 154                                                           | 90                                                            |
| NOV<br>19... | 13                                                     | 10                                        | 38                                                            | 87                                                            |
| DEC<br>16... | --                                                     | 9                                         | 29                                                            | 100                                                           |
| JAN<br>21... | --                                                     | 17                                        | 63                                                            | 88                                                            |
| FEB<br>26... | --                                                     | 20                                        | 83                                                            | 89                                                            |
| MAR<br>17... | 180                                                    | 17                                        | 65                                                            | 84                                                            |
| APR<br>22... | --                                                     | 20                                        | 69                                                            | 97                                                            |
| MAY<br>27... | 1700                                                   | 84                                        | 1300                                                          | 89                                                            |
| JUN<br>23... | 350                                                    | 41                                        | 251                                                           | 85                                                            |
| JUL<br>29... | 6400                                                   | 39                                        | 787                                                           | 84                                                            |
| AUG<br>12... | 18000                                                  | 37                                        | 815                                                           | 88                                                            |
| SEP<br>22... | --                                                     | 16                                        | 71                                                            | 82                                                            |

&lt; Actual value is known to be less than the value shown.

08030500 SABINE RIVER NEAR RULIFF, TX--Continued

## PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

| DATE<br>TIME        | NOV 19,80<br>1335 | MAR 17,81<br>0940 | MAY 27,81<br>1555 | JUN 23,81<br>0800 | JUL 29,81<br>1330 | AUG 12,81<br>1010 |
|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| TOTAL CELLS/ML      | 13                | 180               | 1700              | 350               | 6400              | 18000             |
| DIVERSITY: DIVISION | 0.0               | 1.0               | 1.5               | 1.0               | 0.7               | 0.1               |
| ..CLASS             | 0.0               | 1.0               | 1.5               | 1.0               | 0.7               | 0.1               |
| ..ORDER             | 0.0               | 1.0               | 2.1               | 1.3               | 1.7               | 0.2               |
| ..FAMILY            | 0.0               | 1.1               | 2.5               | 1.5               | 1.8               | 0.7               |
| ....GENUS           | 0.0               | 1.1               | 2.9               | 1.5               | 2.0               | 1.0               |

| ORGANISM                      | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT | CELLS<br>/ML | PER-<br>CENT |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| CHLOROPHYTA (GREEN ALGAE)     |              |              |              |              |              |              |              |              |              |              |              |              |
| ..CHLOROPHYCEAE               |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHLOROCOCCALES             |              |              |              |              |              |              |              |              |              |              |              |              |
| ...OOCYSTACEAE                |              |              |              |              |              |              |              |              |              |              |              |              |
| ....ANKISTROPSMUS             | --           | -            | --           | -            | 42           | 2            | --           | -            | 41           | 1            | *            | 0            |
| ....CHODATILLA                | --           | -            | --           | -            | 14           | 1            | --           | -            | *            | 0            | --           | -            |
| ....FRANCIA                   | --           | -            | --           | -            | 28           | 2            | --           | -            | --           | -            | --           | -            |
| ....KIRCHNERITILLA            | --           | -            | --           | -            | --           | -            | --           | -            | *            | 0            | --           | -            |
| ....OOCYSTIS                  | --           | -            | --           | -            | 56           | 3            | --           | -            | *            | 0            | --           | -            |
| ....TETRAEDRON                | --           | -            | --           | -            | 14           | 1            | --           | -            | *            | 0            | --           | -            |
| ...SCENOFESMACEAE             |              |              |              |              |              |              |              |              |              |              |              |              |
| ....ACTINASTRUM               | --           | -            | --           | -            | --           | -            | --           | -            | *            | 0            | --           | -            |
| ....CRUCIGENTIA               | --           | -            | --           | -            | 56           | 3            | --           | -            | --           | -            | --           | -            |
| ...SCENOFESMUS                | --           | -            | --           | -            | 170          | 10           | 150#         | 44           | 55           | 1            | 110          | 1            |
| ...VOLVOCALES                 |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHLAMYDOMONADACEAE         |              |              |              |              |              |              |              |              |              |              |              |              |
| ....CHLAMYDOMONAS             | --           | -            | 14           | 8            | 84           | 5            | --           | -            | 82           | 1            | --           | -            |
| ...ZYGNEMATALES               |              |              |              |              |              |              |              |              |              |              |              |              |
| ...DESMIDIACEAE               |              |              |              |              |              |              |              |              |              |              |              |              |
| ....COSMARTIUM                | --           | -            | --           | -            | --           | -            | --           | -            | 69           | 1            | --           | -            |
| ...STAUSTRUM                  | --           | -            | --           | -            | --           | -            | --           | -            | *            | 0            | --           | -            |
| CHRYSOPHYTA                   |              |              |              |              |              |              |              |              |              |              |              |              |
| ..BACILLARIOPHYCEAE           |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CENTRALES                  |              |              |              |              |              |              |              |              |              |              |              |              |
| ...COSCINOIDISCEAE            |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CYCLOTELLA                 | --           | -            | --           | -            | 42           | 2            | --           | -            | *            | 0            | --           | -            |
| ...MELOSTRA                   | --           | -            | --           | -            | 130          | 7            | 26           | 7            | 110          | 2            | --           | -            |
| ...PENNALIS                   |              |              |              |              |              |              |              |              |              |              |              |              |
| ...ACHNANTHACEAE              |              |              |              |              |              |              |              |              |              |              |              |              |
| ....ACHNANTHES                | --           | -            | --           | -            | 14           | 1            | --           | -            | *            | 0            | --           | -            |
| ...FRAGILARIACEAE             |              |              |              |              |              |              |              |              |              |              |              |              |
| ....FRAGILARIA                | --           | -            | --           | -            | --           | -            | --           | -            | 120          | 2            | --           | -            |
| ...SYNEURA                    | --           | -            | --           | -            | 14           | 1            | --           | -            | --           | -            | *            | 0            |
| ...NAVICULACEAE               |              |              |              |              |              |              |              |              |              |              |              |              |
| ....NAVICULA                  | --           | -            | --           | -            | 70           | 4            | 13           | 4            | 96           | 1            | --           | -            |
| ...NITZSCHACEAE               |              |              |              |              |              |              |              |              |              |              |              |              |
| ....NITZSCHIA                 | 13#100       |              | 14           | 8            | 110          | 6            | 150#         | 44           | 69           | 1            | --           | -            |
| ...SURIPELLACEAE              |              |              |              |              |              |              |              |              |              |              |              |              |
| ....SURIPELLA                 | --           | -            | 14           | 8            | --           | -            | --           | -            | --           | -            | --           | -            |
| CYANOPHYTA (BLUE-GREEN ALGAE) |              |              |              |              |              |              |              |              |              |              |              |              |
| ..CYANOPHYCEAE                |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHROOCOCCALES              |              |              |              |              |              |              |              |              |              |              |              |              |
| ...CHROOCOCCACEAE             |              |              |              |              |              |              |              |              |              |              |              |              |
| ....AGMENELLUM                | --           | -            | --           | -            | --           | -            | --           | -            | 210          | 3            | --           | -            |
| ....ANACYSTIS                 | --           | -            | --           | -            | 800#         | 46           | --           | -            | 2100#        | 32           | 100          | 1            |
| ...HORMOGONALES               |              |              |              |              |              |              |              |              |              |              |              |              |
| ...NOSTOCACEAE                |              |              |              |              |              |              |              |              |              |              |              |              |
| ....ANARAENA                  | --           | -            | --           | -            | --           | -            | --           | -            | --           | -            | 1800         | 10           |
| ...APHANIZOYENON              | --           | -            | --           | -            | --           | -            | --           | -            | --           | -            | 130          | 1            |
| ...OSCILLATORIACEAE           |              |              |              |              |              |              |              |              |              |              |              |              |
| ....LYNGRYA                   | --           | -            | --           | -            | --           | -            | --           | -            | --           | -            | 15000#       | 81           |
| ...OSCILLATORIA               | --           | -            | 140#         | 77           | 110          | 6            | --           | -            | 3400#        | 52           | 1200         | 6            |
| EUGLENOPHYTA (EUGLENOIDS)     |              |              |              |              |              |              |              |              |              |              |              |              |
| ..EUGLENOPHYCEAE              |              |              |              |              |              |              |              |              |              |              |              |              |
| ...EUGLENALES                 |              |              |              |              |              |              |              |              |              |              |              |              |
| ...EUGLENAEAE                 |              |              |              |              |              |              |              |              |              |              |              |              |
| ....TRACHELOMONAS             | --           | -            | --           | -            | --           | -            | --           | -            | *            | 0            | --           | -            |

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

\* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than at stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. These measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of annual maximum gage heights and discharges at crest-stage partial-record stations, the second is a table of peak elevations at flood-profile stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

## CREST-STAGE PARTIAL-RECORD STATIONS

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

## ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1981

|                   |                                                                                     |                                                                                                                                                                                                           |                                        |                                 |         | Annual maximum           |                                        |
|-------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------|---------|--------------------------|----------------------------------------|
| Station No.       | Station name                                                                        | Location                                                                                                                                                                                                  | Drainage<br>area<br>(mi <sup>2</sup> ) | Period<br>of<br>record          | Date    | Gage<br>height<br>(feet) | Dis-<br>charge<br>(ft <sup>3</sup> /s) |
| Pearl River basin |                                                                                     |                                                                                                                                                                                                           |                                        |                                 |         |                          |                                        |
| 02489990          | Bogue Lusa Creek<br>tributary near<br>Franklinton, LA<br>(station<br>discontinued). | Lat 30°55'30", long 89°59'20",<br>Washington Parish, at culvert<br>on State Highway 62, 1.8 mi<br>(2.9 km) upstream from mouth,<br>and 11.1 mi (17.9 km) north-<br>east of high school at<br>Franklinton. | 0.41                                   | 1977-81                         | 2-11-81 | 6.86                     | (#)                                    |
| 02490113          | Bogue Lusa Creek at<br>State Highway 21,<br>at Bogalusa, LA.                        | Lat 30°46'52", long 89°51'07",<br>Washington Parish, at bridge<br>1.4 mi (2.3 km) southeast of<br>Bogalusa water tower.                                                                                   | 75.9                                   | 1969-81                         | 2-11-81 | *76.27                   | (#)                                    |
| 02490130          | Coburn Creek at<br>Bogalusa, LA.                                                    | Lat 30°47'46", long 89°50'46",<br>Washington Parish, at bridge<br>on State Highway 21, and 1.0<br>mi (1.6 km) southeast of<br>Bogalusa water tower.                                                       | 7.96                                   | 1969-81                         | 2-11-81 | 4.44                     | (#)                                    |
| 02491200          | Silver Springs<br>Creek near<br>Clifton, LA.                                        | Lat 30°55'30", long 90°14'30",<br>Washington Parish, at bridge<br>on State Highway 38, and 3.6<br>mi (5.8 km) west of Clifton.                                                                            | 50.1                                   | 1966-81                         | 2-11-81 | 4.13                     | (#)                                    |
| 02491350          | Hays Creek near<br>Franklinton, LA.                                                 | Lat 30°53'16", long 90°11'28",<br>Washington Parish, at bridge<br>on State Highway 25, and 3.4<br>mi (5.5 km) northwest of<br>Franklinton water tower.                                                    | 42.2                                   | 1966-81                         | 2-11-81 | 9.55                     | (#)                                    |
| 02491700          | Lawrence Creek near<br>near Franklinton,<br>LA.                                     | Lat 30°50'55", long 90°06'55",<br>Washington Parish, at bridge<br>on State Highway 10, and 2.0<br>mi (3.2 km) east of<br>Franklinton.                                                                     | 44.2                                   | 1964-81                         | 2-11-81 | 9.83                     | (#)                                    |
| Bayou Sara basin  |                                                                                     |                                                                                                                                                                                                           |                                        |                                 |         |                          |                                        |
| 07373400          | Little Bayou Sara<br>near Turnbull,<br>LA.                                          | Lat 30°58'15", long 91°28'50",<br>West Feliciana Parish, at<br>bridge on State Highway 968,<br>and 1.2 mi (1.9 km) north-<br>west of Turnbull.                                                            | 22.3                                   | 1950-60,<br>1963-68,<br>1974-81 | 1981    | *<174.12                 | (#)                                    |

See footnotes at end of the table.

## ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1981--Continued

|                         |                                                   |                                                                                                                                                                      |                     |                            | Annual maximum                  |                          |                    |
|-------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|---------------------------------|--------------------------|--------------------|
| Station No.             | Station name                                      | Location                                                                                                                                                             | Drainage area (mi2) | Period of record           | Date                            | Gage height (feet)       | Dis-charge (ft3/s) |
| Thompson Creek basin    |                                                   |                                                                                                                                                                      |                     |                            |                                 |                          |                    |
| 07373450                | Thompson Creek at Jackson, LA.                    | Lat 30°50'25", long 91°13'35", East Feliciana-West Feliciana Parish line, at bridge on State Highway 10, and 0.5 mi (0.8 km) west of Jackson.                        | 99.3                | 1950-59, 1972-73, 1975-81  | 7- 3-81                         | *82.77                   | (#)                |
| 07373640                | Hammer Creek tributary near Jackson, LA.          | Lat 30°50'40", long 91°17'35", West Feliciana Parish, at culvert on State Highway 10, 2.8 mi (4.5 km) east of Elm Park, and 4.7 mi (7.6 km) west of Jackson.         | .20                 | 1977-81                    | 7- 3-81                         | 5.05                     | (#)                |
| 07373700                | Thompson Creek near Starhill, LA.                 | Lat 30°44'55", long 91°17'05", East Feliciana-West Feliciana Parish line, at bridge on U.S. Highway 61, and 1.7 mi (2.7 km) southeast of Starhill.                   | 249                 | 1949-68, 1973, 1975-81     | 7- 3-81                         | 43.12                    | (#)                |
| 07373800                | Alexander Creek near St. Francisville, LA.        | Lat 30°42'55", long 91°22'05", West Feliciana Parish, at bridge on State Highway 10, 1.0 mi (1.6 km) northeast of St. Francisville.                                  | 23.9                | 1953-68, 1971-73, 1975-81  | 7- 3-81                         | 12.00                    | (#)                |
| Bayou Baton Rouge basin |                                                   |                                                                                                                                                                      |                     |                            |                                 |                          |                    |
| 07373900                | Bayou Baton Rouge above Baker, LA.                | Lat 30°37'20", long 91°12'35", East Baton Rouge Parish, at bridge on unnumbered parish road, and 3.4 mi (5.5 km) northwest of Baker.                                 | 13.7                | 1953-68a 1975-81           | 7- 3-81                         | 15.95                    | (#)                |
| Mississippi River Delta |                                                   |                                                                                                                                                                      |                     |                            |                                 |                          |                    |
| 07374590                | North Carson Creek tributary near Sunny Hill, LA. | Lat 30°52'20", long 90°17'20", Washington Parish, at culvert on State Highway 440, 0.8 mi (1.3 km) upstream from mouth, and 4.3 mi (6.9 km) southeast of Sunny Hill. | .22                 | 1977-81                    | 2-11-81                         | 5.87                     | (#)                |
| 07374700                | Tchefuncta River near Franklinton, LA.            | Lat 30°45'22", long 90°15'52", Washington Parish, at bridge on State Highway 16, and 9.0 mi (14.5 km) southwest of Franklinton.                                      | 53.1                | 1949-68, 1975-76b, 1977-81 | 4-28-75c, 1976 4-23-77c 2-11-81 | 45.98 <43.82 44.54 47.04 | (#) (#) (#) (#)    |
| 07375170                | Bogue Falaya at Covington, LA.                    | Lat 30°29'58", long 91°05'04", St. Tammany Parish, at bridge on State Highway 437, and 1.0 mi (1.6 km) north-east of Covington.                                      | 88.2                | 1964-81                    | 2-11-81                         | 10.47                    | (#)                |
| 07375185                | Little Bogue Falaya near Blond, LA.               | Lat 30°38'20", long 90°01'55", St. Tammany Parish, at culvert on State Highway 40, and 5.0 mi (8.0 km) north-east of Blond.                                          | .91                 | 1977-81                    | 2-11-81                         | 9.67                     | (#)                |
| 07375222                | Abita River north of Abita Springs, LA.           | Lat 30°28'55", long 90°02'20", St. Tammany Parish, at bridge on State Highway 36, and 0.2 mi (0.3 km) north of Abita Springs.                                        | 46.1                | 1966-81                    | 2-11-81                         | *23.06                   | (#)                |

See footnotes at end of the table.



## PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1981--Continued

|                                    |                                                                    |                                                                                                                                                                                                                              |                                        |                        |         | Annual maximum           |                                        |
|------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------|---------|--------------------------|----------------------------------------|
| Station No.                        | Station name                                                       | Location                                                                                                                                                                                                                     | Drainage<br>area<br>(mi <sup>2</sup> ) | Period<br>of<br>record | Date    | Gage<br>height<br>(feet) | Dis-<br>charge<br>(ft <sup>3</sup> /s) |
| Mississippi River Delta--Continued |                                                                    |                                                                                                                                                                                                                              |                                        |                        |         |                          |                                        |
| 07375300                           | Tangipahoa River<br>near Kentwood,<br>LA.                          | Lat 30°56'15", long 90°29'25",<br>Tangipahoa Parish, at bridge<br>on State Highway 38, and 1.1<br>mi (1.8 km) east of Kentwood.                                                                                              | d296                                   | 1951-68,<br>1975-81    | 1981    | <12.18                   | (#)                                    |
| 07375307                           | Terrys Creek near<br>Kentwood, LA.                                 | Lat 30°57'23", long 90°30'13",<br>Tangipahoa Parish, at bridge<br>on U.S. Highway 51, and 5.1<br>mi (8.2 km) northeast of<br>Kentwood.                                                                                       | 52.0                                   | 1966-81                | 7- 3-81 | 8.63                     | (#)                                    |
| 07375345                           | Ashley Branch near<br>Kentwood, LA<br>(station<br>discontinued).   | Lat 30°55'45", long 90°27'40",<br>Tangipahoa Parish, at culvert<br>on State Highway 38, 2.2 mi<br>(3.5 km) east of Kentwood,<br>and 2.8 mi (4.5 km) upstream<br>from mouth.                                                  | 1.74                                   | 1977-81                | 7- 3-81 | 6.81                     | (#)                                    |
| 07375453                           | Lanier Creek near<br>Loranger, LA<br>(station<br>discontinued).    | Lat 30°36'25", long 90°24'35",<br>Tangipahoa Parish, at culvert<br>on State Highway 442, and 2.3<br>mi (3.7 km) south of Loranger.                                                                                           | .83                                    | 1967-70,<br>1974-81    | 2-11-81 | 9.02                     | (#)                                    |
| 07375463                           | Chappeeela Creek<br>near Husser, LA.                               | Lat 30°39'35", long 90°18'45",<br>Tangipahoa Parish, at bridge<br>on State Highway 445, and 1.9<br>mi (3.1 km) southeast of<br>Husser.                                                                                       | 31.7                                   | 1966-81                | 2-11-81 | 24.20                    | (#)                                    |
| 07375480                           | Chappeeela Creek<br>southeast of<br>Loranger, LA.                  | Lat 30°36'22", long 90°19'56",<br>Tangipahoa Parish, at bridge<br>on State Highway 40, and 4.5<br>mi (7.2 km) southeast of<br>Loranger.                                                                                      | 91.0                                   | 1964-81                | 2-11-81 | 11.09                    | (#)                                    |
| 07375600                           | Washley Creek<br>near Robert, LA.                                  | Lat 30°30'20", long 90°18'30",<br>Tangipahoa Parish, at bridge<br>on U.S. Highway 190, and 2.0<br>mi (3.2 km) east of Robert.                                                                                                | 25.3                                   | 1951-81                | 2-11-81 | 10.45                    | (#)                                    |
| 07375790                           | Bridges Branch near<br>Liverpool, LA<br>(station<br>discontinued). | Lat 30°56'25", long 90°42'05",<br>St. Helena Parish, at cul-<br>vert on State Highway 43,<br>1.2 mi (1.9 km) northwest of<br>intersection of State High-<br>ways 38 and 43, and 1.3 mi<br>(2.1 km) upstream from mouth.      | 0.76                                   | 1977-81                | 9-16-81 | 8.70                     | (#)                                    |
| 07375920                           | Hoffman Creek near<br>Greensburg, LA<br>(station<br>discontinued). | Lat 30°45'45", long 90°42'05",<br>St. Helena Parish, at culvert<br>on State Highway 449, 1.7 mi<br>(2.7 km) upstream from mouth,<br>and 1.7 mi (2.7 km) south of<br>junction of State Highways 37<br>and 449.                | .78                                    | 1977-81                | 3- 6-81 | 3.49                     | (#)                                    |
| 07375960                           | Tickfaw River at<br>Montpelier, LA.                                | Lat 30°41'10", long 90°38'35",<br>St. Helena Parish, at bridge<br>on State Highway 16, and 0.5<br>mi (0.8 km) northeast of<br>Montpelier.                                                                                    | 220                                    | 1951-68<br>1975-81     | 1981    | *<99.14                  | (#)                                    |
| 07376250                           | Killian Bayou near<br>Maurepas, LA<br>(station<br>discontinued).   | Lat 30°20'35", long 90°34'50"<br>Livingston Parish, at cul-<br>vert on State Highway 22,<br>1.2 mi (2.03 km) south of<br>junction of State Highways<br>22 and 444 at Killian, and<br>1.7 mi (2.7 km) upstream<br>from mouth. | 1.88                                   | 1977-81                | 2-10-81 | 7.95                     | (#)                                    |

See footnotes at end of the table.

## ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1981--Continued

|                                    |                                                                             |                                                                                                                                                                                                                                |                           |                         |         | Annual maximum           |                           |
|------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------|---------|--------------------------|---------------------------|
| Station No.                        | Station name                                                                | Location                                                                                                                                                                                                                       | Drainage<br>area<br>(mi2) | Period<br>of<br>record  | Date    | Gage<br>height<br>(feet) | Dis-<br>charge<br>(ft3/s) |
| Mississippi River Delta--Continued |                                                                             |                                                                                                                                                                                                                                |                           |                         |         |                          |                           |
| 07376285                           | Hickory Branch<br>near Albany, LA.                                          | Lat 30°28'00", long 90°36'35",<br>Livingston Parish, at cul-<br>vert on Parish Road No. 46,<br>2.3 mi (3.7 km) south-<br>east of junction with State<br>Highway 441, and 3.0 mi<br>(4.8 km) southwest of Albany.               | 1.25                      | 1966-71<br>1974-81      | 2-10-81 | 10.89                    | (#)                       |
| 07376290                           | Blood River near<br>Springfield, LA.                                        | Lat 30°26'19", long 90°36'37",<br>Livingston Parish, at bridge<br>on State Highway 42, and 3.7<br>mi (6.0 km) northwest of<br>Springfield.                                                                                     | 26.6                      | 1964-81                 | 2-11-81 | 16.51                    | (#)                       |
| 07376520                           | Little Natalbany<br>River at Albany,<br>LA.                                 | Lat 30°30'15", long 90°34'40",<br>Livingston Parish, at bridge<br>on U.S. Highway 190, and 0.3<br>mi (0.5 km) east of Albany.                                                                                                  | 40.6                      | 1966-81                 | 2-11-81 | 21.95                    | (#)                       |
| 07376600                           | Ponchatoula Creek<br>at Natalbany,<br>LA.                                   | Lat 30°33'40", long 90°28'55",<br>Tangipahoa Parish, at bridge<br>on U.S. Highway 51, and 1.0<br>mi (1.6 km) north of<br>Natalbany.                                                                                            | 13.8                      | 1951-81                 | 2-11-81 | 10.79                    | (#)                       |
| 07377190                           | Sandy Creek south-<br>east of Clinton,<br>LA.                               | Lat 30°50'05", long 90°57'50",<br>East Feliciana Parish, at<br>bridge on State Highway 63,<br>and 5.9 mi (9.5 km) south-<br>east of Clinton.                                                                                   | 17.2                      | 1966-81                 | 5- 6-81 | 9.47                     | (#)                       |
| 07377210                           | Sandy Creek near<br>Pride, LA.                                              | Lat 30°40'14", long 90°57'36",<br>East Baton Rouge Parish, at<br>bridge on Carlson Road, 0.8<br>mi (1.3 km) east of inter-<br>section of Carlson Road with<br>State Highway 409, and 1.9<br>mi (3.1 km) southeast of<br>Pride. | (e)                       | 1976-81                 | 2- 6-81 | 9.79                     | (#)                       |
| 07377300                           | Amite River at<br>Magnolia, LA.                                             | Lat 30°32'05", long 90°58'50",<br>East Baton Rouge Parish, at<br>bridge on State Highway 64,<br>and 0.4 mi (0.6 km) east of<br>Magnolia.                                                                                       | 884                       | 1949-81                 | 1981    | * < 38.64                | (#)                       |
| 07377405                           | Pretty Creek<br>tributary near<br>Clinton, LA<br>(station<br>discontinued). | Lat 30°54'00", long 90°59'55",<br>East Feliciana Parish, at<br>culvert on State Highway 67,<br>0.5 mi (0.8 km) upstream<br>from Pretty creek, and 2.6<br>mi (4.2 km) northeast of<br>Clinton.                                  | .29                       | 1977-81                 | 1977-81 | 6.59                     | (#)                       |
| 07377700                           | Redwood Creek<br>near Slaughter,<br>LA.                                     | Lat 30°43'44", long 91°06'54",<br>East Feliciana Parish, at<br>bridge on State Highway 412,<br>and 2.0 mi (3.2 km) north-<br>east of Slaughter.                                                                                | 41.1                      | 1966-68f, 7-<br>1969-81 | 3-81    | 10.99                    | (#)                       |
| 07378070                           | Beaver Bayou near<br>Fred, LA.                                              | Lat 30°37'32", long 91°03'08",<br>East Baton Rouge Parish, at<br>bridge on State Highway 946,<br>0.2 mi (0.3 km) southwest of<br>intersection of State High-<br>ways 64 and 946, and 3.6 mi<br>(5.8 km) southeast of Fred.     | (e)                       | 1975-81                 | 5- 6-81 | 12.46                    | (#)                       |

See footnotes at end of the table.

## ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1981--Continued

|                                    |                                                       |                                                                                                                                                                     |                     |                  |         | Annual maximum     |                    |
|------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|---------|--------------------|--------------------|
| Station No.                        | Station name                                          | Location                                                                                                                                                            | Drainage area (mi2) | Period of record | Date    | Gage height (feet) | Dis-charge (ft3/s) |
| Mississippi River Delta--Continued |                                                       |                                                                                                                                                                     |                     |                  |         |                    |                    |
| 07379085                           | North Branch Ward Creek tributary at Baton Rouge, LA. | Lat 30°26'43", long 91°05'26", East Baton Rouge Parish, at culvert on U.S. Highway 61 at Baton Rouge, and 0.2 mi (0.3 km) upstream from mouth.                      | .13                 | 1977-81          | 7-13-81 | 11.03              | (#)                |
| 07380160                           | Middle Colyell near Walker, LA.                       | Lat 30°29'45", long 90°50'30", Livingston Parish, at bridge on U.S. Highway 190, and 1.3 mi (2.1 km) east of Walker.                                                | 20.3                | 1951-81          | 2-11-81 | 3.68               | (#)                |
| 07381413                           | Intracoastal Waterway tributary near Port Allen, LA.  | Lat 30°26'42", long 91°13'53", West Baton Rouge Parish, on Interstate Highway 10, 0.2 mi (0.3 km) upstream from mouth, and 1.4 mi (2.3 km) southwest of Port Allen. | 9.08                | 1971-81          | 1981    | --                 | (#)                |

# Discharge not determined.

\* Elevation; National Geodetic Vertical Datum of 1929.

&lt; Less than amount shown.

a Datum different and unknown.

b Operated as a flood-profile partial-record station.

c Not previously published.

d Including Terrys Creek.

e Drainage area not determined.

f Operated as a continuous-record gaging station.

The following table contains annual maximum elevation for flood-profile stations. A flood-profile gage is a device which will register the peak elevation occurring between inspections. The date of the maximum elevation is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Where two or more sites on the same stream have annual peaks caused by different floods, these floods are listed for each site. The years given in the period of record represent water years for which the annual maximum has been determined.

## ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1981

|                         |                                                       |                                                                                                                                                      |                     |                           | Flood peak          |                           |
|-------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------|---------------------|---------------------------|
| Station No.             | Station name                                          | Location                                                                                                                                             | Drainage area (mi2) | Period of record          | Date                | Elevation, in feet (NGVD) |
| Pearl River basin       |                                                       |                                                                                                                                                      |                     |                           |                     |                           |
| 02491800                | Bogue Chitto at Enon, LA.                             | Lat 30°43'10", long 90°05'00", St. Tammany Parish, at bridge on State Highway 437, 0.5 mi (0.8 km) south of Enon.                                    | 1,107               | 1950-63, 1973-81          | 1981                | *<10.23                   |
| 02492663                | French Branch near Slidell, LA.                       | Lat 30°17'40", long 89°44'10", St. Tammany Parish, at bridge on State Highway 1092, 3.5 mi (5.6 km) northeast of Slidell.                            | (#)                 | 1966-81                   | 2-11-81             | *11.08                    |
| Bayou Baton Rouge basin |                                                       |                                                                                                                                                      |                     |                           |                     |                           |
| 07373970                | Baker Canal at Baker, LA.                             | Lat 30°35'19", long 91°10'24", East Baton Rouge Parish, at bridge on parish road, 0.3 mi (0.5 km) west of Baker.                                     | (#)                 | 1962-81                   | 7- 2-81             | 58.91                     |
| 07373980                | Baker Canal near Baker, LA.                           | Lat 30°34'49", long 91°12'43", East Baton Rouge Parish, at bridge on U.S. Highway 61, 2.7 mi (4.3 km) southwest of Baker.                            | (#)                 | 1963-81                   | 7- 2-81             | *10.42                    |
| 07373993                | Monte Sano Bayou at Ryan Airport, at Baton Rouge, LA. | Lat 30°32'08", long 91°09'32", East Baton Rouge Parish, at bridge on service road at Ryan Airport, 6.1 mi (9.8 km) north of Baton Rouge Post Office. | (#)                 | 1975-81                   | 10-18-80<br>5- 5-81 | 57.00<br>55.57            |
| 07373996                | Monte Sano Bayou at Baton Rouge, LA.                  | Lat 30°30'10", long 91°10'12", East Baton Rouge Parish, at bridge on U.S. Highway 61 at Baton Rouge.                                                 | (#)                 | 1975-81                   | 10-18-80<br>5- 5-81 | 38.26<br>38.51            |
| Mississippi River Delta |                                                       |                                                                                                                                                      |                     |                           |                     |                           |
| 07374570                | Oakes diversion channel at Slidell, LA.               | Lat 30°17'35", long 89°46'00", St. Tammany Parish, at culvert on Robert Road, 0.4 mi (0.6 km) north of Gause Blvd., at Slidell.                      | (#)                 | 1966-81                   | 2-11-81             | *8.13                     |
| 07375410                | Tangipahoa River at Tangipahoa, LA.                   | Lat 30°52'36", long 90°29'44", Tangipahoa Parish, at bridge on State Highway 440, and 1.0 (1.6 km) east of Tangipahoa.                               | 340                 | 1959-65, 1967-74, 1978-81 | 1981                | <157.03                   |
| 07375420                | Tangipahoa River at Arcola, LA.                       | Lat 30°46'30", long 90°29'53", Tangipahoa Parish, at bridge on State Highway 10, and 0.7 mi (1.1 km) east of Arcola.                                 | 381                 | 1959-65, 1968-81          | 1981                | *<18.78                   |
| 07377150                | Amite River at Grangeville, LA.                       | Lat 30°44'10", long 90°50'30", East Feliciana-St. Helena Parish line, at bridge on State Highway 37, and 0.5 mi (0.8 km) southwest of Grangeville.   | 741                 | 1951-63a, 1964-81         | 1981                | <105.81                   |
| 07377215                | Little Sandy Creek near Milldale, LA.                 | Lat 30°42'34", long 91°01'26", East Baton Rouge Parish, at bridge on Port Hudson-Pride Road, 2.9 mi (4.7 km) north of Milldale.                      | (#)                 | 1975-81                   | 6- 2-81             | *10.06                    |

See footnotes at end of the table.

## FLOOD-PROFILE PARTIAL-RECORD STATIONS

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1981--Continued

|                                    |                                                              |                                                                                                                                                                  |                           |                        |          | Flood peak                      |
|------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|----------|---------------------------------|
| Station No.                        | Station name                                                 | Location                                                                                                                                                         | Drainage<br>area<br>(mi2) | Period<br>of<br>record | Date     | Elevation,<br>in feet<br>(NGVD) |
| Mississippi River Delta--Continued |                                                              |                                                                                                                                                                  |                           |                        |          |                                 |
| 07377400                           | Comite River near<br>Clinton, LA.                            | Lat 30°51'30", long 91°02'20",<br>East Feliciana Parish, at<br>bridge on State Highway 10,<br>and 1.3 mi (2.1 km) west of<br>Clinton.                            | 6112                      | 1949-65a,<br>1969-81   | 12-10-80 | 176.85                          |
| 07377750                           | Comite River near<br>Zachary, LA.                            | Lat 30°38'35", long 91°05'40",<br>East Baton Rouge Parish, at<br>bridge on State Highway 64,<br>and 3.7 mi (6.0 km) east of<br>Zachary.                          | 230                       | 1951-63a,<br>1964-81   | 1981     | <75.00                          |
| 07377760                           | Comite River at<br>Comite Drive,<br>near Baton<br>Rouge, LA. | Lat 30°33'24", long 91°05'53",<br>East Baton Rouge Parish, at<br>bridge 9.0 mi (14.5 km)<br>northeast of Baton Rouge<br>Post Office.                             | (#)                       | 1962-81                | 1981     | <50.65                          |
| 07377780                           | White Bayou at<br>State Highway 64,<br>near Zachary, LA.     | Lat 30°38'10", long 91°07'38",<br>East Baton Rouge Parish, at<br>bridge 1.1 mi (1.8 km) east<br>of Zachary.                                                      | (#)                       | 1962-75,<br>1977-81    | 7- 2-81  | 87.19                           |
| 07377840                           | White Bayou near<br>Baton Rouge, LA.                         | Lat 30°35'06", long 91°07'31",<br>East Baton Rouge Parish, at<br>bridge on Plank Road, 10.0<br>mi (16.1 km) northeast of<br>Baton Rouge Post Office.             | (#)                       | 1962-81                | 1981     | <68.60                          |
| 07377890                           | Cypress Bayou at<br>Baker, LA.                               | Lat 30°34'31", long 91°10'01",<br>East Baton Rouge Parish, at<br>bridge on Lavey Lane, 0.2 mi<br>(0.3 km) east of State<br>Highway 19 at Baker.                  | (#)                       | 1967-81                | 1981     | <67.49                          |
| 07377900                           | Cypress Bayou at<br>Plank Road, near<br>Baton Rouge, LA.     | Lat 30°32'32", long 91°08'18",<br>East Baton Rouge Parish, at<br>bridge 6.9 mi (11.1 km)<br>northeast of Baton Rouge<br>Post Office.                             | (#)                       | 1962-65,<br>1967-81    | 5- 5-81  | 50.36                           |
| 07377920                           | Cypress Bayou at<br>Hooper Road,<br>near Baton<br>Rouge, LA. | Lat 30°31'42", long 91°06'35",<br>East Baton Rouge Parish, at<br>bridge 7.0 mi (11.3 km)<br>northeast of Baton Rouge<br>Post Office.                             | (#)                       | 1962-81                | 5 - 5-81 | 42.58                           |
| 07377933                           | Blackwater Bayou<br>near Fred, LA.                           | Lat 30°35'52", long 91°04'46",<br>East Baton Rouge Parish, at<br>bridge on Dyer Road, 3.8 mi<br>(6.1 km) northeast of Baton<br>Rouge Post Office.                | (#)                       | 1975-81                | 5- 5-81  | *11.27                          |
| 07377940                           | Blackwater Bayou<br>near Baton Rouge,<br>LA.                 | Lat 30°32'06", long 91°04'53",<br>East Baton Rouge Parish, at<br>bridge on Hooper Road, 8.5<br>mi (13.7 km) northeast of<br>Baton Rouge Post Office.             | 14.1                      | 1962-81                | 1981     | <45.60                          |
| 07378008                           | Hurricane Creek at<br>Baton Rouge, LA.                       | Lat 30°28'55", long 91°07'41",<br>East Baton Rouge Parish, at<br>bridge on East Brookstown<br>Drive, 3.9 mi (6.3 km)<br>northeast of Baton Rouge<br>Post Office. | (#)                       | 1967-81                | 1981     | <39.82                          |
| 07378010                           | Hurricane Creek<br>near Baton Rouge,<br>LA.                  | Lat 30°28'14", long 91°05'20",<br>East Baton Rouge Parish, at<br>bridge on Joor Road, 6.2 mi<br>(10.0 km) northeast of Baton<br>Rouge Post Office.               | (#)                       | 1962-81                | 1981     | <40.62                          |
| 07378015                           | Roberts Canal at<br>Baton Rouge, LA.                         | Lat 30°30'22", long 91°07'31",<br>East Baton Rouge Parish, at<br>bridge on Silverleaf Ave.,<br>5.3 mi (8.5 km) northeast of<br>Baton Rouge Post Office.          | (#)                       | 1967-81                | 10-18-80 | 47.87                           |

See footnotes at end of the table.

## ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1981--Continued

| Station No.                        | Station name                                                                                           | Location                                                                                                                                                                                                  | Drainage<br>area<br>(mi2) | Period<br>of<br>record | Flood peak |                                 |
|------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|------------|---------------------------------|
|                                    |                                                                                                        |                                                                                                                                                                                                           |                           |                        | Date       | Elevation,<br>in feet<br>(NGVD) |
| Mississippi River Delta--Continued |                                                                                                        |                                                                                                                                                                                                           |                           |                        |            |                                 |
| 07378020                           | Roberts Canal near<br>Baton Rouge, LA.                                                                 | Lat 30°29'55", long 91°05'17",<br>East Baton Rouge Parish, at<br>bridge on Joor Road, 6.6 mi<br>(10.6 km) northeast of Baton<br>Rouge Post Office.                                                        | (#)                       | 1962-81                | 1981       | <40.57                          |
| 07378050                           | Comite River at<br>Greenwell<br>Springs Road,<br>near Baton<br>Rouge, LA<br>(Station<br>discontinued). | Lat 30°30'20", long 91°02'24",<br>East Baton Rouge Parish, at<br>bridge 9.4 mi (15.1 km)<br>northeast of Baton Rouge<br>Post Office.                                                                      | (#)                       | 1962-81                | 5- 5-81    | 34.95                           |
| 07378075                           | Beaver Bayou at<br>Denham Road,<br>near Baton<br>Rouge, LA.                                            | Lat 30°35'15", long 91°01'29",<br>East Baton Rouge Parish, at<br>culvert 13.7 mi (22.0 km)<br>northeast of Baton Rouge<br>Post Office.                                                                    | (#)                       | 1972-81                | 5- 5-81    | *16.55                          |
| 07378100                           | Beaver Bayou at<br>Wax Road, near<br>Baton Rouge, LA.                                                  | Lat 30°32'34", long 91°01'14",<br>East Baton Rouge Parish, at<br>culvert 11.8 mi (19.0 km)<br>northeast of Baton Rouge<br>Post Office.                                                                    | (#)                       | 1972-81                | 5- 5-81    | *13.31                          |
| 07378595                           | Jones Creek at<br>Airline Highway,<br>at Baton Rouge,<br>LA.                                           | Lat 30°27'12", long 91°05'15",<br>East Baton Rouge Parish, at<br>culvert 5.1 mi (8.2 km)<br>northeast of Baton Rouge<br>Post Office.                                                                      | (#)                       | 1967-81                | 5- 5-81    | 46.71                           |
| 07378600                           | Jones Creek at<br>Florida Blvd.,<br>at Baton Rouge,<br>LA.                                             | Lat 30°27'21", long 91°04'29",<br>East Baton Rouge Parish, at<br>bridge 6.5 mi (10.5 km)<br>east of Baton Rouge Post<br>Office.                                                                           | (#)                       | 1962-81                | 5- 5-81    | 41.20                           |
| 07378635                           | Lively Bayou<br>northeast of<br>Baton Rouge,<br>LA.                                                    | Lat 30°28'14", long 91°02'04",<br>East Baton Rouge Parish, at<br>bridge on Flannery Road,<br>9.0 mi (14.5 km) east of<br>Baton Rouge Post Office.                                                         | (#)                       | 1967-81                | 5- 5-81    | 39.03                           |
| 07378640                           | Lively Bayou east<br>of Baton Rouge,<br>LA.                                                            | Lat 30°27'40", long 91°02'04",<br>East Baton Rouge Parish, at<br>bridge on Flannery Road,<br>8.9 mi (14.3 km) east of<br>Baton Rouge Post Office.                                                         | (#)                       | 1967-81                | 5- 5-81    | 35.71                           |
| 07378645                           | Lively Bayou<br>southeast of<br>Baton Rouge, LA.                                                       | Lat 30°26'47", long 91°02'04",<br>East Baton Rouge Parish, at<br>bridge on Flannery Road, 8.8<br>mi (14.2 km) southeast of<br>Baton Rouge Post Office.                                                    | (#)                       | 1967-81                | 5- 5-81    | 31.78                           |
| 07378650                           | Jones Creek at<br>Old Hammond<br>Hwy., near Baton<br>Rouge, LA.                                        | Lat 30°26'26", long 91°02'40",<br>East Baton Rouge Parish, at<br>bridge 8.4 mi (13.5 km) east<br>of Baton Rouge Post Office.                                                                              | (#)                       | 1962-81                | 5- 5-81    | 34.35                           |
| 07378670                           | Weiner Creek near<br>Baton Rouge, LA                                                                   | Lat 30°25'08", long 91°03'55",<br>East Baton Rouge Parish, at<br>bridge, on Stanley Aubin<br>Drive, 7.3 mi (11.7 km)<br>southeast of Baton Rouge<br>Post Office.                                          | (#)                       | 1967-81                | 5- 5-81    | 41.83                           |
| 07378700                           | Jones Creek near<br>Woodlawn School,<br>near Baton<br>Rouge, LA.                                       | Lat 30°24'50", long 91°00'50",<br>East Baton Rouge Parish, at<br>bridge on Jones Creek Road,<br>1.6 mi (2.6 km) north of<br>Woodlawn School, and 10.5 mi<br>(16.9 km) east of Baton<br>Rouge Post Office. | 19.5                      | 1967-81                | 5- 5-81    | 23.09                           |

See footnotes at end of the table.



## ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1981--Continued

| Station No.                        | Station name                                                     | Location                                                                                                                                                                        | Drainage<br>area<br>(mi2) | Period<br>of<br>record           | Flood peak |                                 |
|------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------|------------|---------------------------------|
|                                    |                                                                  |                                                                                                                                                                                 |                           |                                  | Date       | Elevation,<br>in feet<br>(NGVD) |
| Mississippi River Delta--Continued |                                                                  |                                                                                                                                                                                 |                           |                                  |            |                                 |
| 07378710                           | Amite River near<br>Baton Rouge, LA.                             | Lat 30°23'52", long 90°58'23",<br>East Baton Rouge Parish, 0.2<br>mi (0.3 km) downstream<br>from Jones Creek, and 13.0<br>mi (20.9 km) southeast of<br>Baton Rouge Post Office. | (#)                       | 1968-79,<br>1981                 | 1981       | <16.96                          |
| 07378720                           | Clay Cut Bayou at<br>Siegen Lane,<br>near Baton<br>Rouge, LA.    | Lat 30°23'46", long 91°03'20",<br>East Baton Rouge Parish, at<br>bridge 7.9 mi (12.7 km)<br>southeast of Baton Rouge<br>Post Office.                                            | (#)                       | 1967-81                          | 5- 5-81    | 25.18                           |
| 07378725                           | Clay Cut Bayou<br>near Hope<br>Villa, LA.                        | Lat 30°22'23", long 90°58'10",<br>East Baton Rouge Parish, at<br>bridge on Tiger Bend Road,<br>2.3 mi (3.7 km) northeast<br>of Hope Villa.                                      | (#)                       | 1967-81                          | 1981       | < 9.39                          |
| 07378780                           | Bayou Fountain<br>at Ben Hur<br>Road, at<br>Baton Rouge,<br>LA.  | Lat 30°23'30", long 91°09'36",<br>East Baton Rouge Parish, at<br>bridge 4.2 mi (6.8 km) south-<br>east of Baton Rouge Post<br>Office.                                           | (#)                       | 1962-81                          | 1981       | <17.28                          |
| 07378788                           | Elbow Bayou at<br>Baton Rouge, LA.                               | Lat 30°21'27", long 91°10'20",<br>East Baton Rouge Parish, at<br>bridge on Ben Hur Road, and<br>6.3 mi (10.1 km) southeast<br>of Baton Rouge Post Office.                       | (#)                       | 1981                             | 2- 6-81    | 17.15                           |
| 07378790                           | Elbow Bayou<br>tributary at<br>Baton Rouge,<br>LA.               | Lat 30°22'29", long 91°10'08",<br>East Baton Rouge Parish, at<br>bridge on Ben Hur Road, and<br>5.3 mi (8.5 km) southeast of<br>Baton Rouge Post Office.                        | (#)                       | 1967-75,<br>1981                 | 2- 6-81    | 18.07                           |
| 07378792                           | Elbow Bayou near<br>Baton Rouge,<br>LA.                          | Lat 30°22'09", long 91°09'27",<br>East Baton Rouge Parish, at<br>bridge on State Highway 30,<br>and 5.8 mi (9.3 km) south-<br>east of Baton Rouge Post<br>Office.               | (#)                       | 1981                             | 2- 6-81    | 16.24                           |
| 07378800                           | Bayou Fountain<br>Gardere Lane,<br>near Baton<br>Rouge, LA.      | Lat 30°21'52", long 91°07'16",<br>East Baton Rouge Parish, at<br>bridge 6.9 mi (11.1 km)<br>southeast of Baton Rouge<br>Post Office.                                            | (#)                       | 1962-66,<br>1969-81              | 5- 5-81    | 14.34                           |
| 07378805                           | Bayou Fountain<br>tributary near<br>Baton Rouge,<br>LA.          | Lat 30°21'00", long 91°04'54",<br>East Baton Rouge Parish, at<br>culvert on Highland Road,<br>9.1 mi (14.6 km) southeast<br>of Baton Rouge Post Office.                         | (#)                       | 1967-81                          | 5- 5-81    | 9.41                            |
| 07379000                           | Ward Creek at<br>Government<br>Street, at<br>Baton Rouge,<br>LA. | Lat 30°26'40", long 91°08'35",<br>East Baton Rouge Parish, on<br>downstream end of culvert<br>on Government Street, and<br>2.4 mi (3.9 km) east of<br>Baton Rouge Post Office.  | 4.04                      | 1954-67c,<br>1969-73,<br>1975-81 | 10-18-80   | 43.06                           |
| 07379010                           | Ward Creek at<br>College Drive,<br>at Baton Rouge,<br>LA.        | Lat 30°26'08", long 91°07'59",<br>East Baton Rouge Parish, at<br>bridge 3.5 mi (5.6 km)<br>southeast of Baton Rouge<br>Post Office.                                             | (#)                       | 1970-81                          | 10-18-80   | 33.85                           |
| 07379050                           | Ward Creek at<br>Essen Lane, near<br>Baton Rouge, LA.            | Lat 30°24'17", long 91°06'12",<br>East Baton Rouge Parish, at<br>bridge 5.7 mi (9.2 km)<br>southeast of Baton Rouge<br>Post Office.                                             | (#)                       | 1963-70,<br>1975-81              | 5- 5-81    | 25.03                           |

See footnotes at end of the table.

## ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1981--Continued

| Station No.                        | Station name                                                              | Location                                                                                                                                                                                         | Drainage<br>area<br>(mi2) | Period<br>of<br>record            | Flood peak         |                                 |
|------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------|--------------------|---------------------------------|
|                                    |                                                                           |                                                                                                                                                                                                  |                           |                                   | Date               | Elevation,<br>in feet<br>(NGVD) |
| Mississippi River Delta--Continued |                                                                           |                                                                                                                                                                                                  |                           |                                   |                    |                                 |
| 07379090                           | North Branch Ward<br>Creek at Good-<br>wood Blvd., at<br>Baton Rouge, LA. | Lat 30°26'34", long 91°05'57",<br>East Baton Rouge Parish, at<br>bridge 5.5 mi (8.9 km)<br>southeast of Baton Rouge<br>Post Office.                                                              | (#)                       | 1967-81                           | 9-12-81            | 36.81                           |
| 07379100                           | North Branch Ward<br>Creek at Baton<br>Rouge, LA.                         | Lat 30°25'04", long 91°05'29",<br>East Baton Rouge Parish, at<br>bridge on Jefferson Highway,<br>5.9 mi (9.5 km) southeast<br>of Baton Rouge Office.                                             | (#)                       | 1962-81                           | 1981               | <28.42                          |
| 07379400                           | Dawson Creek at<br>Perkins Road,<br>at Baton Rouge,<br>LA.                | Lat 30°24'37", long 91°07'53",<br>East Baton Rouge Parish,<br>4.1 mi (6.6 km) southeast<br>of Baton Rouge Post Office.                                                                           | (#)                       | 1962-81                           | 1981               | <20.60                          |
| 07379502                           | Corporation Canal<br>at Oklahoma St.,<br>at Baton Rouge,<br>LA.           | Lat 30°26'05", long 91°11'12",<br>East Baton Rouge Parish, at<br>bridge 1.0 mi (1.6 km)<br>south of Baton Rouge Post<br>Office.                                                                  | .56                       | 1971-81                           | 5- 5-81<br>6-10-81 | 19.78<br>22.20                  |
| 07379503                           | Corporation Canal<br>at East Roose-<br>velt St., at<br>Baton Rouge, LA.   | Lat 30°25'18", long 91°10'36",<br>East Baton Rouge Parish, at<br>bridge 2.0 mi (3.2 km)<br>southeast of Baton Rouge<br>Post Office.                                                              | d1.31                     | 1971-81                           | 5- 5-81<br>6-10-81 | 20.50<br>22.43                  |
| 07379505                           | Corporation Canal<br>at Chimes St.,<br>at Baton Rouge,<br>LA.             | Lat 30°25'02", long 91°10'22",<br>East Baton Rouge Parish, at<br>bridge 2.4 mi (3.9 km)<br>southeast of Baton Rouge<br>Post Office.                                                              | d1.44                     | 1971-81                           | 5- 5-81<br>6-10-81 | 20.41<br>21.62                  |
| 07379507                           | Corporation Canal<br>at Campus Drive,<br>at Baton Rouge,<br>LA.           | Lat 30°24'14", long 91°10'15",<br>East Baton Rouge Parish, at<br>bridge 2.7 mi (4.3 km)<br>southeast of Baton Rouge<br>Post Office.                                                              | 1.64                      | 1971-81                           | 5- 5-81<br>6-10-81 | 22.82<br>23.21                  |
| 07379508                           | Corporation Canal<br>at Stanford Ave.,<br>at Baton Rouge,<br>LA.          | Lat 30°24'24", long 91°09'52",<br>East Baton Rouge Parish, at<br>culvert 3.2 mi (5.1 km)<br>southeast of Baton Rouge<br>Post Office.                                                             | 2.43                      | 1971-81                           | 5- 5-81<br>6-10-81 | 19.29<br>16.20                  |
| 07379550                           | Bayou Duplantier<br>at Lee Drive, at<br>Baton Rouge, LA.                  | Lat 30°24'05", long 91°09'09",<br>East Baton Rouge Parish, at<br>bridge 3.8 mi (6.1 km)<br>south of Baton Rouge Post<br>Office.                                                                  | (#)                       | 1962-81                           | 2- 6-81            | 15.22                           |
| 07379950                           | Dawson Creek at<br>Staring Lane,<br>near Baton<br>Rouge, LA.              | Lat 30°23'19", long 91°06'42",<br>East Baton Rouge Parish, at<br>bridge 6.0 mi (9.7 km) south-<br>east of Baton Rouge Post<br>Office.                                                            | (#)                       | 1962-81                           | 1981               | <19.89                          |
| 07380000                           | Ward Creek at<br>Siegen Lane,<br>near Baton<br>Rouge, LA.                 | Lat 30°22'30", long 91°04'10",<br>East Baton Rouge Parish, at<br>bridge 0.5 mi (0.8 km) down-<br>stream from Dawson Creek,<br>and 8.5 mi (13.7 km) south-<br>east of Baton Rouge Post<br>Office. | 40.0                      | 1947-53c,<br>1955-68a,<br>1972-81 | 2- 6-81            | 17.83                           |
| 07380103                           | Muddy Creek at<br>Prairieville,<br>LA.                                    | Lat 30°18'21", long 90°57'33",<br>Ascension Parish, at bridge<br>on unnumbered parish road,<br>and 0.8 mi (1.3 km) north-<br>east of Prairieville.                                               | (#)                       | 1981                              | 6-11-81            | 19.28                           |
| 07380104                           | Muddy Creek<br>tributary near<br>Prairieville,<br>LA.                     | Lat 30°18'24", long 90°56'51",<br>Ascension Parish, at bridge<br>on Tillotson Road, and 1.5<br>mi (2.4 km) northeast of<br>Prairieville.                                                         | (#)                       | 1981                              | 6-11-81            | 17.72                           |

See footnotes at end of the table.

## ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1981--Continued

|                                    |                                                                   |                                                                                                                                                 |                           |                                                | Flood peak         |                                 |
|------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------|--------------------|---------------------------------|
| Station No.                        | Station name                                                      | Location                                                                                                                                        | Drainage<br>area<br>(mi2) | Period<br>of<br>record                         | Date               | Elevation,<br>in feet<br>(NGVD) |
| Mississippi River Delta--Continued |                                                                   |                                                                                                                                                 |                           |                                                |                    |                                 |
| 07380106                           | Muddy Creek near<br>Oak Grove, LA.                                | Lat 30°19'44", long 90°57'15",<br>Ascension Parish, at bridge<br>on State Highway 42, and 1.3<br>mi (2.1 km) east of Oak<br>Grove.              | (#)                       | 1981                                           | 6-11-81            | *18.71                          |
| 07380122                           | Henderson Bayou<br>near Duplessis,<br>LA.                         | Lat 30°18'05", long 90°54'17",<br>Ascension Parish, at bridge<br>on Parish Road 932, and 3.6<br>mi (5.8 km) northeast of<br>Duplessis.          | (#)                       | 1981                                           | 2-10-81<br>4-18-81 | ---<br>12.57                    |
| 07380123                           | Henderson Bayou<br>tributary near<br>Duplessis, LA.               | Lat 30°17'55", long 90°54'37",<br>Ascension Parish, at bridge<br>on unnumbered parish road,<br>and 2.4 mi (3.9 km) north-<br>east of Duplessis. | (#)                       | 1981                                           | 2-10-81<br>4-18-81 | 16.70<br>15.37                  |
| 07380124                           | Henderson Bayou<br>tributary at<br>Galvez, near<br>Duplessis, LA. | Lat 30°18'11", long 90°54'18",<br>Ascension Parish, at bridge<br>on Parish Road 932, and 0.2<br>mi (0.3 km) north of Galvez.                    | (#)                       | 1981                                           | 2-10-81<br>4-18-81 | 11.38<br>11.63                  |
| 07380125                           | Henderson Bayou<br>tributary No. 2<br>near Duplessis,<br>LA.      | Lat 30°17'55", long 90°53'55",<br>Ascension Parish, at bridge<br>on unnumbered parish road,<br>and 3.2 mi (5.1 km) north-<br>east of Duplessis. | (#)                       | 1981                                           | 2-10-81<br>4-18-81 | 10.04<br>10.59                  |
| 07380126                           | Henderson Bayou<br>near Port<br>Vincent, LA.                      | Lat 30°17'50", long 90°53'01",<br>Ascension Parish, at bridge<br>on Henderson River Road, and<br>3.1 mi (5.0 km) southwest of<br>Port Vincent.  | (#)                       | 1981                                           | 2-10-81<br>4-18-81 | *15.07<br>*14.96                |
| 07380223                           | New River at<br>Gonzales, LA.                                     | Lat 30°14'12", long 90°54'43",<br>Ascension Parish, at bridge<br>on U.S. Highway 61, 0.5 mi<br>(0.8 km) northeast of<br>Gonzales water tower.   | (#)                       | 1963-81                                        | 1981               | <7.86                           |
| 301755<br>090561600                | Black Bayou near<br>Prairieville,<br>LA.                          | Lat 30°17'55", long 90°56'16",<br>Ascension Parish, at bridge<br>on unnumbered parish road,<br>and 2.0 mi (3.2 km) east of<br>Prairieville.     | (#)                       | 1981                                           | 6-11-81<br>8-30-81 | 16.65<br>16.17                  |
| 301703<br>090553400                | Black Bayou north-<br>east of<br>Duplessis, LA.                   | Lat 30°17'03", long 90°55'34",<br>Ascension Parish, at bridge<br>on Parish Road 931, and 1.2<br>mi (1.9 km) northeast of<br>Duplessis.          | (#)                       | 1981                                           | 6-11-81<br>8-30-81 | 13.18<br>13.62                  |
| 07380224                           | Black Bayou near<br>Duplessis, LA.                                | Lat 30°16'36", long 90°55'16",<br>Ascension Parish, at bridge<br>on State Highway 44, and 1.2<br>mi (1.9 km) northeast of<br>Duplessis.         | (#)                       | 1965-70c,<br>1981                              | 6-11-81<br>8-30-81 | 19.29<br>20.17                  |
| 07380226                           | Bayou Francois<br>near Gonzales,<br>LA.                           | Lat 30°13'57", long 90°56'49",<br>Ascension Parish, at bridge<br>on State Highway 429, 1.8 mi<br>(2.9 km) west of Gonzales<br>water tower.      | (#)                       | 1963-81                                        | 1981               | < 6.48                          |
| 07380227                           | Bayou Francois at<br>Gonzales, LA.                                | Lat 30°13'35", long 90°55'14",<br>Ascension Parish, at bridge<br>on State Highway 44, 0.4 mi<br>(0.6 km) southwest of<br>Gonzales water tower.  | (#)                       | 1963-81                                        | 1981               | < 7.40                          |
| Mermentau River basin              |                                                                   |                                                                                                                                                 |                           |                                                |                    |                                 |
| 08011000                           | Bayou Plaquemine<br>Brule near<br>Crowley, LA.                    | Lat 30°14'09", long 92°23'44",<br>Acadia Parish, at bridge on<br>State Highway 100, and 1.8<br>mi (2.9 km) northwest of<br>Crowley.             | 254                       | 1943-47c,<br>1966-74a,<br>1975-79c,<br>1980-81 | 6-14-81            | *11.33                          |

See footnotes at end of the table.

## ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1981--Continued

|                                  |                                       |                                                                                                                                  |                     |                  | Flood peak |                           |
|----------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|------------|---------------------------|
| Station No.                      | Station name                          | Location                                                                                                                         | Drainage area (mi2) | Period of record | Date       | Elevation, in feet (NGVD) |
| Mermentau River basin--continued |                                       |                                                                                                                                  |                     |                  |            |                           |
| 08012431                         | East Bayou Lacassine at Welsh, LA.    | Lat 30°13'50", long 92°49'15", Jefferson Davis Parish, at bridge on unnumbered parish road, 0.6 mi (1.0 km) south of Welsh.      | (#)                 | 1979-81          | 6-14-81    | *17.81                    |
| 08012436                         | Bayou Grand Marais near Jennings, LA. | Lat 30°13'53", long 92°41'25", Jefferson Davis Parish, at bridge on U.S. Highway 90, and 2.0 mi (3.2 km) west of Jennings.       | (#)                 | 1979-81          | 6-14-81    | *14.42                    |
| 08012445                         | Bayou Chene near Welsh, LA.           | Lat 30°09'24", long 92°46'06", Jefferson Davis Parish, at bridge on unnumbered parish road, 6.0 mi (9.7 km) south-east of Welsh. | 106                 | 1969-81          | 6-14-81    | *19.52                    |

\* Gage datum; NGVD of gage not determined.

# Drainage area not determined.

Less than amount shown.

a Operated as a crest-stage partial-record station.

b Including Pretty Creek.

c Operated as a continuous-record gaging station.

d approximately.

## PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1981

| Stream                      | Tributary to       | Location                                                                                                                                                                           | Drainage<br>area<br>(mi <sup>2</sup> ) | Measured<br>previously<br>(water<br>years) | Measurements                  |                                   |
|-----------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|-------------------------------|-----------------------------------|
|                             |                    |                                                                                                                                                                                    |                                        |                                            | Date                          | Discharge<br>(ft <sup>3</sup> /s) |
| Pearl River basin           |                    |                                                                                                                                                                                    |                                        |                                            |                               |                                   |
| West Pearl<br>River         | Lake Borgne        | Lat 30°13'49", long 89°40'10",<br>St. Tammany Parish, at bridge<br>on State Highway 90, and 7.2<br>mi (11.6 km) southeast of<br>Slidell, LA.                                       | (#)                                    | ---                                        | 6- 2-81                       | 4,200                             |
| Mississippi River main stem |                    |                                                                                                                                                                                    |                                        |                                            |                               |                                   |
| Mississippi<br>River        | Gulf of<br>Mexico  | Lat°30 29'29", long 91°11'50", *1,125,810<br>East Baton Rouge-West Baton<br>Parish line, 1.0 mi (1.6 km)<br>downstream from U.S. Highway<br>190 bridge, and at Baton<br>Rouge, LA. |                                        | 1941-58a,<br>1973-76,<br>1979-80           | 1-29-81                       | 158,000                           |
| Mississippi River Delta     |                    |                                                                                                                                                                                    |                                        |                                            |                               |                                   |
| Muddy Creek                 | Bayou<br>Manchac   | Lat 30°19'44", long 90°57'15",<br>Ascension Parish, at bridge<br>on State Highway 42, and<br>1.3 mi (2.1 km) east of<br>Oak Grove, LA.                                             | (#)                                    | 1980                                       | 6-12-81                       | 125                               |
| Henderson<br>Bayou          | Lake<br>Villars    | Lat 30°17'50", long 90°53'01",<br>Ascension Parish, at bridge<br>on unnumbered parish road,<br>and 3.1 mi (5.0 km) south-<br>west of Port Vincent, LA.                             | (#)                                    | 1980                                       | 6-12-81                       | 120                               |
| Black Bayou                 | New River          | Lat 30°16'36", long 90°55'16",<br>Ascension Parish, at bridge<br>on State Highway 44, and<br>1.2 mi (1.9 km) northeast<br>of Duplessis, LA.                                        | 3.66                                   | 1964-70a,<br>1980                          | 6-12-81                       | 181                               |
| Mermentau River basin       |                    |                                                                                                                                                                                    |                                        |                                            |                               |                                   |
| Bayou<br>Nezpique           | Mermentau<br>River | Lat 30°35'00", long 92°35'53",<br>Evangeline Parish, at bridge<br>on State Highway 104, and<br>7.2 mi (11.6 km) north of<br>Basile, LA.                                            | (#)                                    | --                                         | 6-15-81<br>7-28-81<br>9- 3-81 | 1600<br>29.2<br>7.0               |

# Drainage area not determined.

\* Owing to interchange of flow between basins,  
drainage area is arbitrarily determined.

a Operated as a continuous-discharge gaging station.

## ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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## MISSISSIPPI RIVER DELTA

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

07386880 VERMILION RIVER AT SURREY STREET, AT LAFAYETTE, LA

| DATE         | TIME | ARSENIC<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS AS) | BARIIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BARIIUM,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS BA) | CADMIUM<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CD) | CHRO-<br>MIUM,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | COPPER,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CU) | IRON,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS FE) | LEAD,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS PB) | MANGA-<br>NESE,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | MERCURY<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS HG) | ZINC,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS ZN) |
|--------------|------|---------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|
| NOV<br>18... | 1015 | 6                                                                   | 100                                           | 200                                                                   | 1                                                                    | 9                                                                  | 21                                                                   | 7200                                                               | 20                                                                 | 310                                                                 | .07                                                                  | 104                                                                |

07386955 VERMILION RIVER AT MILTON, LA

| DATE         | TIME | ARSENIC<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS AS) | BARIIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BARIIUM,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS BA) | CADMIUM<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CD) | CHRO-<br>MIUM,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | COPPER,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CU) | IRON,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS FE) | LEAD,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS PB) | MANGA-<br>NESE,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | MERCURY<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS HG) | ZINC,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS ZN) |
|--------------|------|---------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|
| NOV<br>18... | 1200 | 2                                                                   | 100                                           | 250                                                                   | 0                                                                    | 10                                                                 | 8                                                                    | 5000                                                               | 40                                                                 | 310                                                                 | .06                                                                  | 44                                                                 |

07386965 VERMILION RIVER AT ABBEVILLE, LA

| DATE         | TIME | ARSENIC<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS AS) | BARIIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BARIIUM,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS BA) | CADMIUM<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CD) | CHRO-<br>MIUM,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | COPPER,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CU) | IRON,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS FE) | LEAD,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS PB) | MANGA-<br>NESE,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | MERCURY<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS HG) | ZINC,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS ZN) |
|--------------|------|---------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|
| NOV<br>18... | 1315 | 7                                                                   | 100                                           | 300                                                                   | 0                                                                    | 12                                                                 | 18                                                                   | 6300                                                               | 20                                                                 | 370                                                                 | .12                                                                  | 65                                                                 |

## CALCASIEU RIVER BASIN

08017016 HOUSTON RIVER EAST OF BUHLER, LA

| DATE  | TIME | SAMP-<br>LING<br>DEPTH<br>(FT) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) |
|-------|------|--------------------------------|---------------------------------------------------|
| JAN   |      |                                |                                                   |
| 13... | 1425 | 1.0                            | 681                                               |
| 13... | 1430 | 10                             | 682                                               |
| 13... | 1435 | 20                             | 1390                                              |
| MAR   |      |                                |                                                   |
| 02... | 1520 | 1.0                            | 66                                                |
| 02... | 1525 | 10                             | 60                                                |
| 02... | 1530 | 20                             | 69                                                |
| APR   |      |                                |                                                   |
| 09... | 1315 | 1.0                            | 119                                               |
| 09... | 1320 | 10                             | 71                                                |
| 09... | 1325 | 20                             | 70                                                |
| MAY   |      |                                |                                                   |
| 11... | 1545 | 1.0                            | 268                                               |
| 11... | 1550 | 10                             | 320                                               |
| 11... | 1555 | 20                             | 4320                                              |
| JUN   |      |                                |                                                   |
| 08... | 1200 | 1.0                            | 42                                                |
| 08... | 1205 | 10                             | 39                                                |
| 08... | 1210 | 20                             | 43                                                |
| JUL   |      |                                |                                                   |
| 16... | 1140 | 1.0                            | 32                                                |
| 16... | 1145 | 10                             | 34                                                |
| 16... | 1150 | 20                             | 35                                                |
| AUG   |      |                                |                                                   |
| 12... | 1535 | 1.0                            | 193                                               |
| 12... | 1540 | 10                             | 37                                                |
| 12... | 1545 | 20                             | 42                                                |
| SEP   |      |                                |                                                   |
| 03... | 1330 | 1.0                            | 281                                               |
| 03... | 1335 | 10                             | 4510                                              |
| 03... | 1340 | 20                             | 7950                                              |



## TEMPERATURES (°C) AND DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, OF STREAMS IN LOUISIANA DURING 1981 WATER YEAR

| DATE OF<br>COLLECTION                                           | TEMPERATURE | DISSOLVED<br>OXYGEN | DATE OF<br>COLLECTION | TEMPERATURE | DISSOLVED<br>OXYGEN |
|-----------------------------------------------------------------|-------------|---------------------|-----------------------|-------------|---------------------|
| PEARL RIVER BASIN                                               |             |                     |                       |             |                     |
| 02489500 PEARL RIVER NEAR BOGALUSA, LA                          |             |                     |                       |             |                     |
| DEC. 11, 1980...                                                | 13.0        | --                  | MAY 6.....            | --          | 22.5                |
| JAN. 22, 1981...                                                | 7.5         | 12.2                | JUNE 16.....          | 30.0        | --                  |
| APR. 23.....                                                    | --          | 9.2                 | JULY 21.....          | 31.5        | --                  |
| 02490105 BOGUE LUSA CREEK AT STATE HIGHWAY 439, AT BOGALUSA, LA |             |                     |                       |             |                     |
| OCT. 28, 1980...                                                | 19.0        | --                  | APR. 8.....           | 16.0        | 11.0                |
| DEC. 19.....                                                    | 10.0        | 11.3                | MAY 6.....            | 19.5        | --                  |
| JAN. 22, 1981...                                                | 7.5         | 11.7                | JUNE 16.....          | 26.0        | --                  |
| FEB. 26.....                                                    | 13.5        | --                  | JULY 21.....          | 29.0        | --                  |
| 02492000 BOGUE CHITTO NEAR BUSH, LA                             |             |                     |                       |             |                     |
| OCT. 31, 1980...                                                | 14.9        | --                  | APR. 8.....           | 18.0        | --                  |
| DEC. 10.....                                                    | 16.5        | 9.3                 | MAY 7.....            | 20.0        | --                  |
| JAN. 23, 1981...                                                | 9.0         | 11.6                | JUNE 22.....          | 29.5        | --                  |
| MAR. 3.....                                                     | 16.5        | --                  | JULY 20.....          | 32.0        | --                  |
| MISSISSIPPI RIVER DELTA                                         |             |                     |                       |             |                     |
| 07373965 SOUTH CANAL NEAR BAKER, LA                             |             |                     |                       |             |                     |
| OCT. 30, 1980...                                                | 14.5        | --                  | MAR. 25.....          | 15.0        | 8.1                 |
| DEC. 15.....                                                    | 10.5        | --                  | APR. 20.....          | 24.0        | 4.6                 |
| JAN. 28, 1981...                                                | 12.0        | --                  | AUG. 25.....          | 25.0        | 2.7                 |
| FEB. 24.....                                                    | 16.0        | --                  |                       |             |                     |
| 07375000 TCHEFUNCTA RIVER NEAR FOLSOM, LA                       |             |                     |                       |             |                     |
| OCT. 29, 1980...                                                | 16.0        | 8.4                 | MAY 6.....            | 18.0        | 8.0                 |
| DEC. 9.....                                                     | 16.0        | 8.0                 | JUNE 17.....          | 23.0        | 7.8                 |
| JAN. 21, 1981...                                                | 7.5         | 12.0                | JULY 16.....          | 23.0        | 7.1                 |
| MAR. 4.....                                                     | 14.5        | 8.0                 | AUG. 25.....          | 22.0        | 8.8                 |
| APR. 2.....                                                     | 17.0        | 8.2                 |                       |             |                     |
| 07375500 TANGIPAHOA RIVER AT ROBERT, LA                         |             |                     |                       |             |                     |
| OCT. 31, 1980...                                                | 16.0        | 10.0                | MAY 6.....            | 20.0        | 8.4                 |
| DEC. 12.....                                                    | 11.0        | 11.0                | JUNE 17.....          | 27.0        | 7.5                 |
| JAN. 21, 1981...                                                | 7.0         | 12.8                | JULY 15.....          | 27.0        | 7.8                 |
| MAR. 5.....                                                     | 15.0        | 9.0                 | AUG. 25.....          | 25.0        | 8.0                 |
| APR. 2.....                                                     | 18.0        | 9.6                 |                       |             |                     |
| 07375800 TICKFAW RIVER AT LIVERPOOL, LA                         |             |                     |                       |             |                     |
| OCT. 28, 1980...                                                | 16.5        | 8.6                 | MAY 7.....            | 17.5        | 9.0                 |
| DEC. 11.....                                                    | 11.5        | 9.0                 | JUNE 16.....          | 23.0        | 7.5                 |
| JAN. 22, 1981...                                                | 8.0         | 12.0                | JULY 21.....          | 24.0        | 8.2                 |
| FEB. 26.....                                                    | 15.0        | 11.5                | AUG. 26.....          | 22.0        | 9.8                 |
| APR. 3.....                                                     | 18.0        | 8.0                 |                       |             |                     |
| 07376000 TICKFAW RIVER AT HOLDEN, LA                            |             |                     |                       |             |                     |
| OCT. 27, 1980...                                                | 17.0        | 11.2                | MAY 8.....            | 18.0        | 9.0                 |
| DEC. 8.....                                                     | 15.0        | 11.0                | JUNE 18.....          | 23.5        | 7.5                 |
| JAN. 19, 1981...                                                | 6.0         | 15.0                | JUNE 25.....          | 24.0        | 8.0                 |
| MAR. 2.....                                                     | 15.0        | 11.0                | JUNE 26.....          | 25.0        | 8.0                 |
| MAR. 31.....                                                    | 17.0        | 9.6                 | JULY 22.....          | 30.0        | 8.0                 |
| APR. 27.....                                                    | 19.5        | 9.5                 | AUG. 24.....          | 25.0        | 8.6                 |
| 07376500 NATALBANY RIVER AT BAPTIST, LA                         |             |                     |                       |             |                     |
| OCT. 29, 1980...                                                | 15.0        | 9.8                 | MAY 4.....            | 22.0        | 9.6                 |
| DEC. 9.....                                                     | 16.5        | 10.2                | JUNE 15.....          | 29.5        | 7.5                 |
| JAN. 23, 1981...                                                | 8.0         | 14.8                | JULY 14.....          | 29.5        | 7.6                 |
| MAR. 2.....                                                     | 18.0        | 10.8                | AUG. 24.....          | 25.5        | 9.0                 |
| APR. 2.....                                                     | 18.0        | 9.8                 |                       |             |                     |
| 07377000 AMITE RIVER NEAR DARLINGTON, LA                        |             |                     |                       |             |                     |
| OCT. 28, 1980...                                                | 18.0        | 9.2                 | MAY 7.....            | 18.5        | 9.6                 |
| DEC. 11.....                                                    | 11.5        | 9.4                 | JUNE 16.....          | 27.0        | 8.5                 |
| JAN. 22, 1981...                                                | 7.0         | 14.0                | JULY 22.....          | 27.5        | 8.4                 |
| FEB. 26.....                                                    | 13.5        | 10.0                | AUG. 26.....          | 25.0        | 9.2                 |
| APR. 3.....                                                     | 17.5        | 9.0                 |                       |             |                     |
| 07377240 LITTLE SANDY CREEK NEAR GREENWELL SPRINGS, LA          |             |                     |                       |             |                     |
| OCT. 30, 1980...                                                | 15.0        | 7.0                 | MAY 7.....            | 19.0        | 5.9                 |
| DEC. 8.....                                                     | 15.5        | 4.0                 | JUNE 17.....          | 26.0        | --                  |
| JAN. 21, 1981...                                                | 6.0         | 8.8                 | JULY 21.....          | 28.0        | 3.0                 |
| FEB. 26.....                                                    | 15.0        | --                  | AUG. 24.....          | 28.0        | 3.3                 |
| MAR. 31.....                                                    | 18.0        | 6.4                 |                       |             |                     |

## TEMPERATURES (°C) AND DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, OF STREAMS IN LOUISIANA DURING 1981 WATER YEAR

| DATE OF<br>COLLECTION                                            | TEMPERATURE | DISSOLVED<br>OXYGEN | DATE OF<br>COLLECTION | TEMPERATURE | DISSOLVED<br>OXYGEN |
|------------------------------------------------------------------|-------------|---------------------|-----------------------|-------------|---------------------|
| MISSISSIPPI RIVER DELTA--Continued                               |             |                     |                       |             |                     |
| 07377500 COMITE RIVER NEAR OLIVE BRANCH, LA                      |             |                     |                       |             |                     |
| OCT. 30, 1980...                                                 | 15.0        | 8.1                 | MAY 4.....            | 20.0        | 8.2                 |
| DEC. 8.....                                                      | 16.0        | 9.6                 | JUNE 16.....          | 30.5        | --                  |
| JAN. 19, 1981...                                                 | 7.5         | 13.3                | JULY 20.....          | 31.5        | 8.8                 |
| FEB. 23.....                                                     | 17.0        | 9.8                 | JULY 21.....          | 27.0        | --                  |
| MAR. 31.....                                                     | 18.5        | 8.2                 | AUG. 18.....          | 28.0        | 7.9                 |
| 07377755 WHITE BAYOU EAST DIVERSION CHANNEL NEAR BATON ROUGE, LA |             |                     |                       |             |                     |
| OCT. 30, 1980...                                                 | 13.0        | --                  | FEB. 23.....          | 13.5        | --                  |
| DEC. 9.....                                                      | 16.0        | 3.4                 | APR. 20.....          | --          | 5.1                 |
| JAN. 28, 1981...                                                 | 10.0        | 10.0                | AUG. 25.....          | 26.0        | 4.0                 |
| 07377782 WHITE BAYOU SOUTHEAST OF ZACHARY, LA                    |             |                     |                       |             |                     |
| OCT. 30, 1980...                                                 | 14.5        | --                  | MAR. 25.....          | 14.0        | 8.2                 |
| DEC. 9.....                                                      | 16.0        | --                  | APR. 20.....          | 24.0        | 6.5                 |
| JAN. 28, 1981...                                                 | 12.0        | 13.5                | AUG. 25.....          | 25.5        | 3.8                 |
| FEB. 23.....                                                     | 15.5        | --                  |                       |             |                     |
| 07377842 WHITE BAYOU NEAR BAKER, LA                              |             |                     |                       |             |                     |
| OCT. 30, 1980...                                                 | 15.0        | --                  | MAR. 25.....          | 15.0        | 6.3                 |
| DEC. 15.....                                                     | 11.0        | --                  | APR. 20.....          | 23.5        | 1.8                 |
| JAN. 28, 1981...                                                 | 12.0        | 9.3                 | AUG. 25.....          | 25.0        | 3.0                 |
| FEB. 24.....                                                     | 17.5        | --                  |                       |             |                     |
| 07378000 COMITE RIVER NEAR COMITE, LA                            |             |                     |                       |             |                     |
| OCT. 31, 1980...                                                 | 17.0        | 9.4                 | MAY... 7.....         | 19.0        | 7.7                 |
| DEC. 8.....                                                      | 19.5        | 9.6                 | JUNE 17.....          | 30.0        | --                  |
| JAN. 21, 1981...                                                 | 5.5         | 12.8                | JUNE 19.....          | 29.5        | --                  |
| FEB. 18.....                                                     | 16.0        | 9.6                 | JULY 22.....          | 29.1        | 7.6                 |
| APR. 1.....                                                      | 20.5        | 7.9                 | AUG. 26.....          | 25.5        | 9.4                 |
| 07378500 AMITE RIVER NEAR DENHAM SPRINGS, LA                     |             |                     |                       |             |                     |
| OCT. 27, 1980...                                                 | 16.0        | 10.8                | MAY 4.....            | 22.0        | 9.8                 |
| DEC. 8.....                                                      | 16.5        | 10.2                | JUNE 19.....          | 30.0        | 7.6                 |
| JAN. 19, 1981...                                                 | 6.0         | 14.0                | JULY 27.....          | 30.0        | 7.0                 |
| FEB. 25.....                                                     | 15.0        | 10.0                | AUG. 19.....          | 31.0        | 7.6                 |
| MAR. 30.....                                                     | 19.0        | 10.0                |                       |             |                     |
| 07380400 BAYOU LAFOURCHE AT DONALDSONVILLE, LA                   |             |                     |                       |             |                     |
| NOV. 3, 1980...                                                  | 18.0        | 6.7                 | MAR. 30.....          | 13.5        | --                  |
| DEC. 16.....                                                     | 11.0        | --                  | MAY 18.....           | 20.0        | 7.8                 |
| JAN. 27, 1981...                                                 | 5.5         | 11.4                | JUNE 15.....          | 25.5        | 5.5                 |
| FEB. 25.....                                                     | 7.5         | --                  | JULY 27.....          | 30.0        | 5.5                 |
| 07385700 BAYOU TECHE AT KEYSTONE LOCK, NEAR ST. MARTINVILLE, LA  |             |                     |                       |             |                     |
| MAR. 20, 1981...                                                 | 17.5        | 7.6                 |                       |             |                     |
| 07386700 RUTH CANAL NEAR RUTH, LA                                |             |                     |                       |             |                     |
| OCT. 30, 1980...                                                 | 18.5        | --                  | MAR. 30.....          | 19.0        | 7.6                 |
| FEB. 25, 1981...                                                 | 15.5        | --                  |                       |             |                     |
| 07386880 VERMILION RIVER AT SURREY STREET, AT LAFAYETTE, LA      |             |                     |                       |             |                     |
| DEC. 5, 1980...                                                  | 12.0        | 2.5                 | JUNE 12.....          | 24.0        | 4.2                 |
| FEB. 25, 1981...                                                 | 17.0        | --                  | JULY 27.....          | 29.0        | 1.5                 |
| MAR. 31.....                                                     | 21.0        | 4.3                 |                       |             |                     |
| CALCASIEU RIVER BASIN                                            |             |                     |                       |             |                     |
| 08016800 BEAR HEAD CREEK NEAR STARKS, LA                         |             |                     |                       |             |                     |
| NOV. 4, 1980...                                                  | 16.5        | --                  | MAY 7.....            | 23.5        | 7.2                 |
| DEC. 3.....                                                      | 12.0        | --                  | MAY 12.....           | 18.0        | 3.2                 |
| JAN. 28, 1981...                                                 | 11.0        | --                  | JUNE 18.....          | 27.0        | --                  |
| FEB. 27.....                                                     | 18.0        | --                  | JULY 22.....          | 28.0        | --                  |
| APR. 2.....                                                      | 21.0        | 4.2                 | SEPT. 9.....          | 25.5        | 4.5                 |



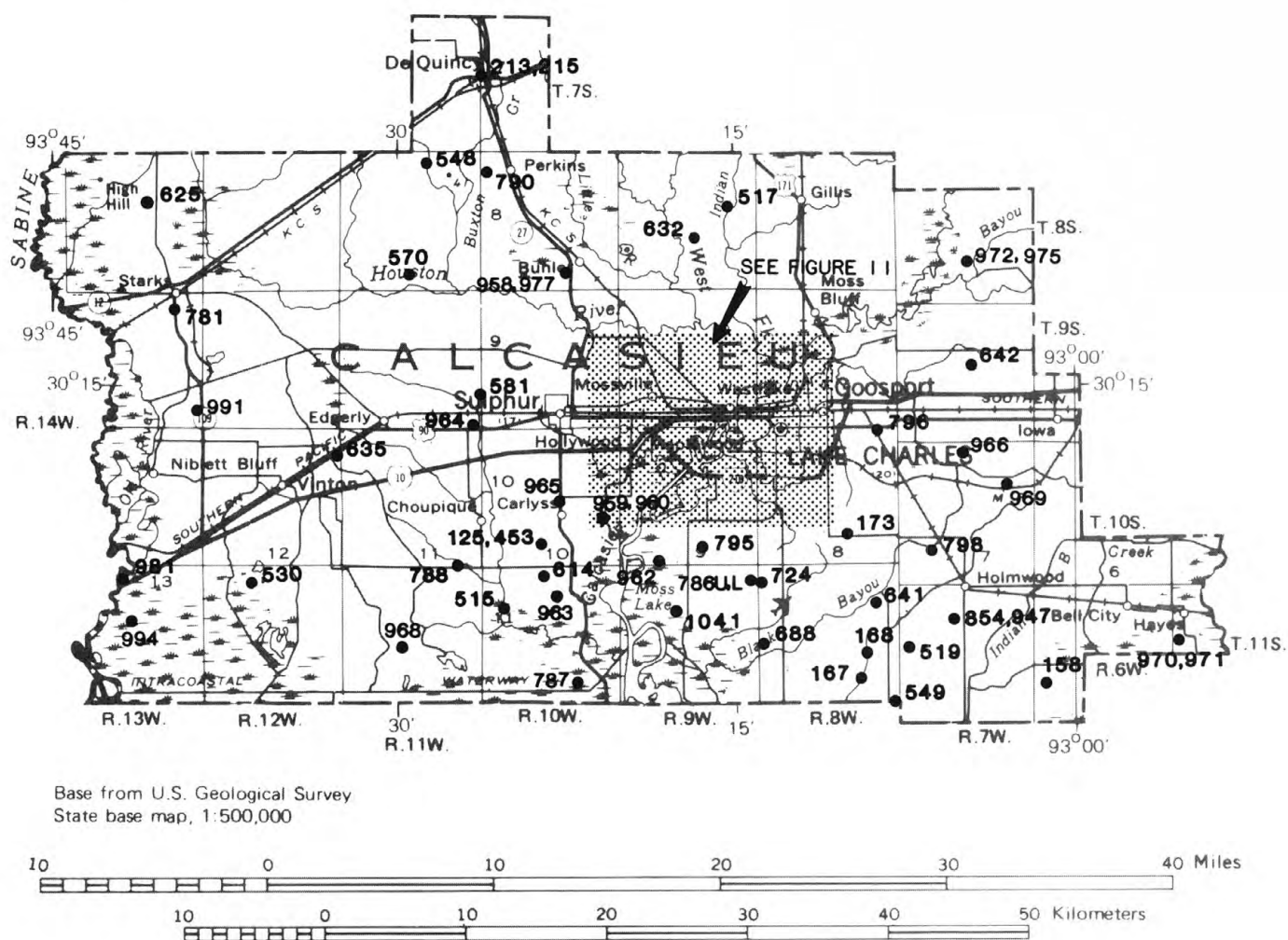


Figure 10.--Location of observation wells in Calcasieu Parish, except for wells located in the shaded area (see fig. 11).

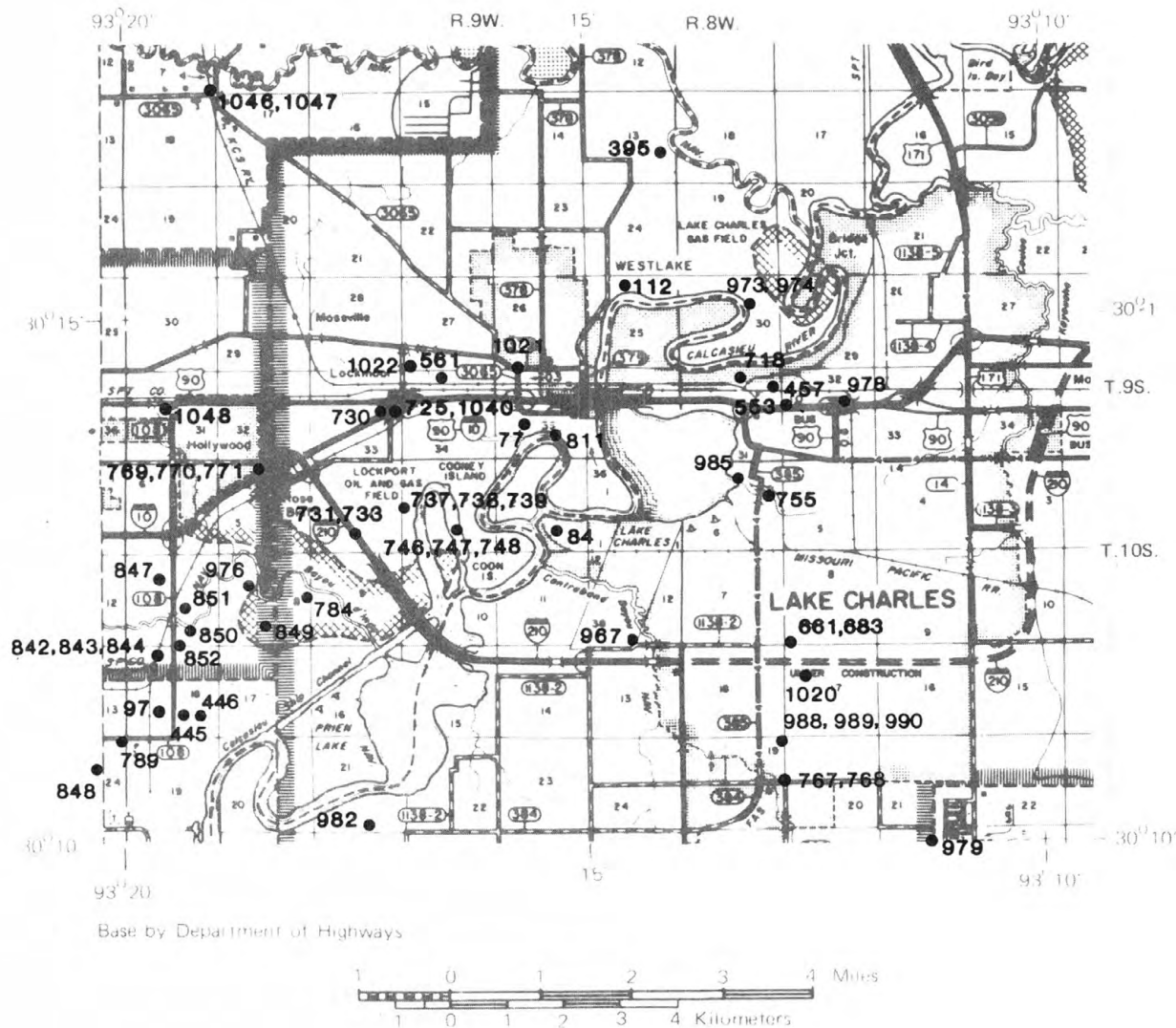


Figure 11.--Location of observation wells in shaded area shown in figure 10, Calcasieu Parish.

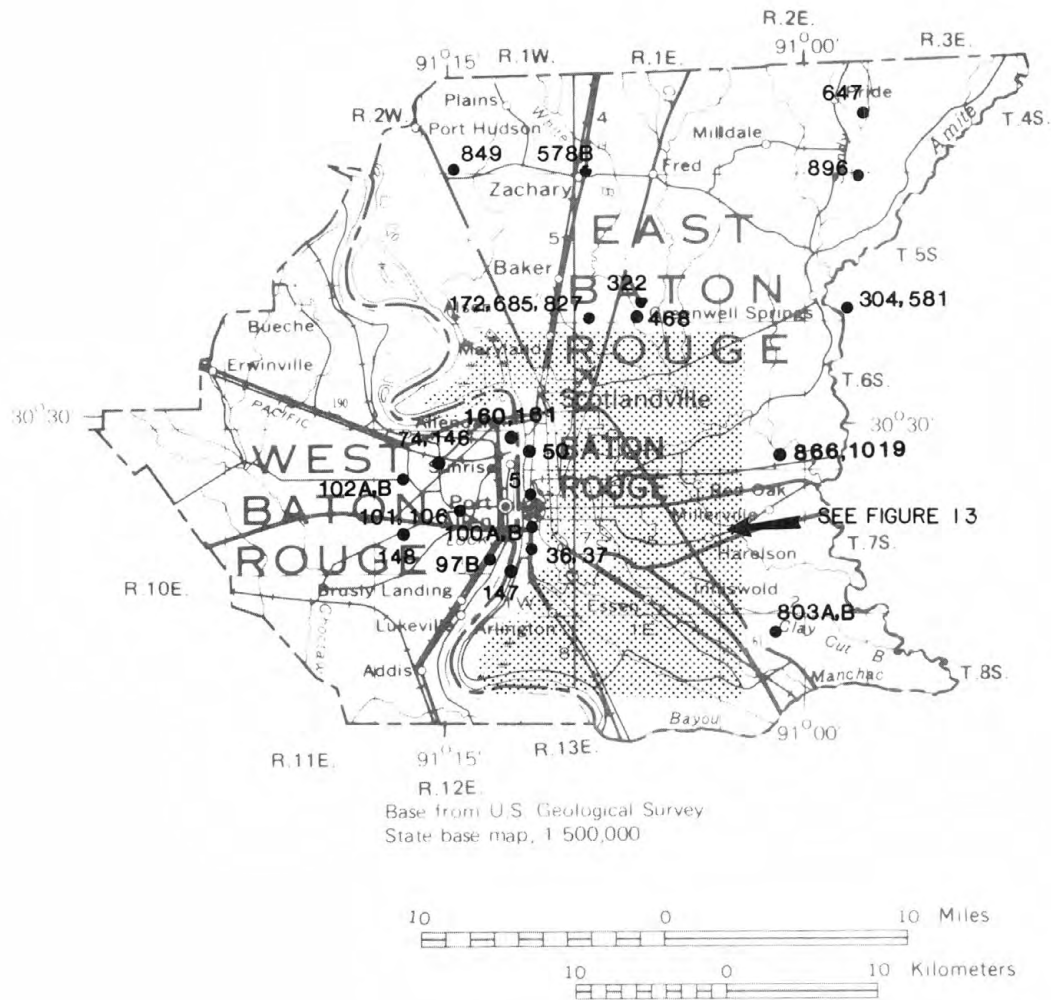


Figure 12.--Location of observation wells, East Baton Rouge and West Baton Rouge Parishes, except for wells located in the shaded area (see fig. 13).



## WATER RESOURCES DATA FOR LOUISIANA, 1981

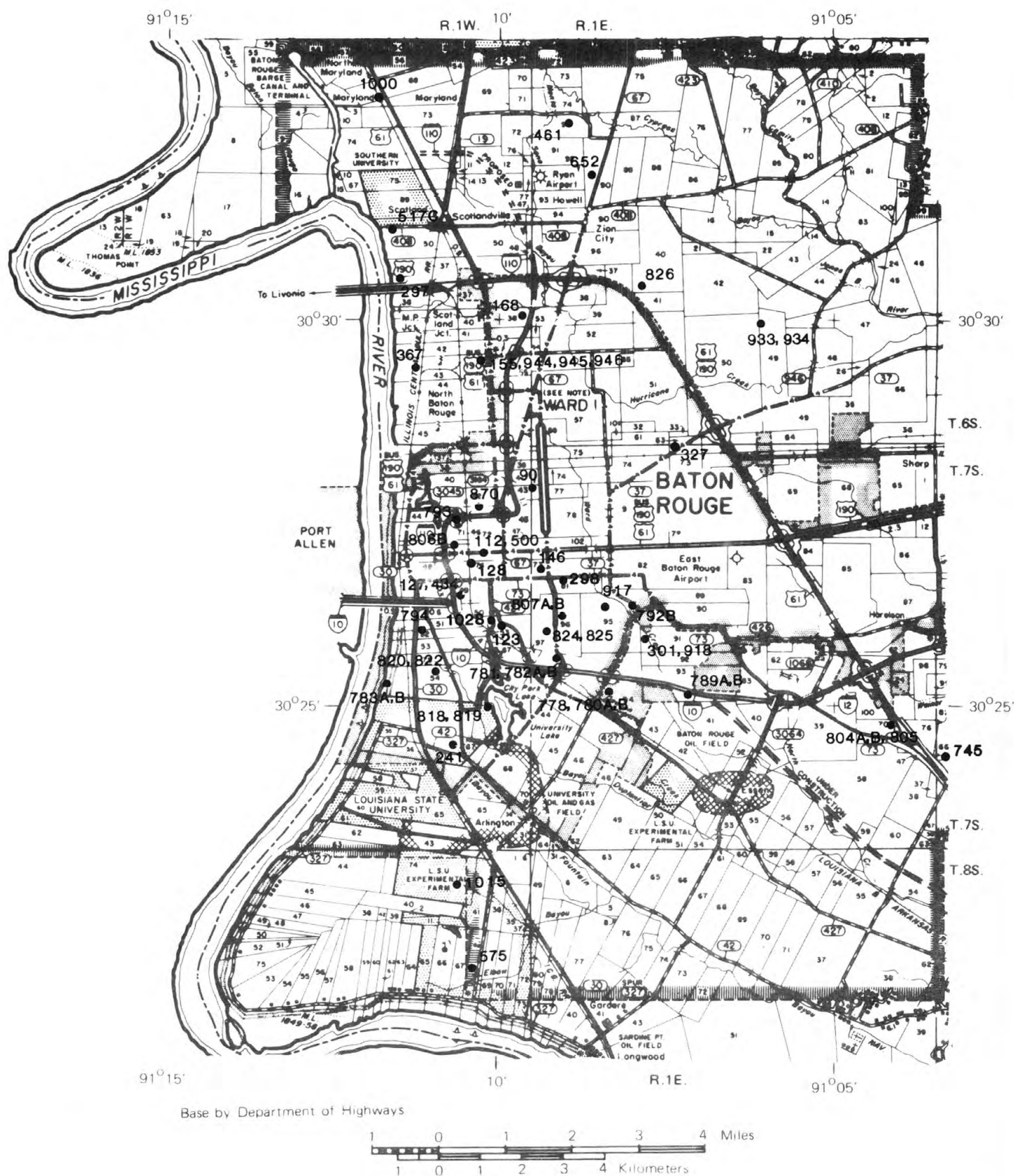


Figure 13.--Location of observation points in the area shown in figure 12, East Baton Rouge Parish.

## GROUND-WATER LEVELS

243

## ACADIA PARISH

302207092153201 LOCAL WELL NUMBER: AC-121

OWNER: MELECK BROTHERS. (SEC. 10, T. 8S., R. 2E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 24 TO 12 IN, REPORTED DEPTH 277 FT, SCREENED 217-277, MP LOWER LIP OF DISCHARGE PIPE, 4.70 FT ABOVE LSD.

LSD 49.13 FT NGVD.

HIGHEST WATER LEVEL 59.95 BELOW LSD, SEP. 7, 1956.

LOWEST WATER LEVEL 80.67 BELOW LSD, AUG. 26, 1965.

RECORDS AVAILABLE 1954-65, 1967-72, 1974-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 79.00          |      |                |      |                |      |                |

301923092121801 LOCAL WELL NUMBER: AC-137

OWNER: G. A. KENNEDY ESTATE. (SEC. 49, T. 8S., R. 3E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM UNKNOWN, REPORTED DEPTH 300 FT, SCREENED INTERVAL UNKNOWN, MP LOWER LIP OF DISCHARGE PIPE, 5.50 FT ABOVE LSD.

LSD 40.85 FT NGVD.

HIGHEST WATER LEVEL 49.19 BELOW LSD, JUNE 16, 1954.

LOWEST WATER LEVEL 68.00 BELOW LSD, FEB. 25, 1974.

RECORDS AVAILABLE 1954-58, 1960-68, 1970-72, 1974-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 64.80          |      |                |      |                |      |                |

300731092213101 LOCAL WELL NUMBER: AC-147

OWNER: MERVIN FAULK. (SEC. 34, T. 10S., R. 1E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 10 IN, REPORTED DEPTH 298 FT, SCREENED INTERVAL UNKNOWN, MP 1/2-IN HOLE WITH PLUG, 4.12 FT ABOVE LSD.

LSD 17.78 FT NGVD.

HIGHEST WATER LEVEL 13.45 BELOW LSD, APR. 9, 1941.

LOWEST WATER LEVEL 44.15 BELOW LSD, AUG. 31, 1962.

RECORDS AVAILABLE 1939-41, 1945-68, 1974-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 42.58          |      |                |      |                |      |                |

301932092341201 LOCAL WELL NUMBER: AC-235

OWNER: H. H. LEJEUNE. (SEC. 28, T. 8S., R. 2W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 8 IN, REPORTED DEPTH 310 FT, SCREENED 250-310, MP LOWER LIP OF DISCHARGE PIPE, 4.42 FT ABOVE LSD.

LSD 35.25 FT NGVD.

HIGHEST WATER LEVEL 42.86 BELOW LSD, MAR. 22, 1950.

LOWEST WATER LEVEL 74.08 BELOW LSD, FEB. 17, 1981.

RECORDS AVAILABLE 1949-72, 1974-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 74.08          |      |                |      |                |      |                |

302658092174701 LOCAL WELL NUMBER: AC-290

OWNER: GRFENE AND ALBERT SPEARS AND OTHERS. (SEC. 18, T. 7S., R. 2E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 TO 10 IN, REPORTED DEPTH 300 FT, SCREENED 220-300, MP HOLE IN TOP OF DISCHARGE PIPE, 3.90 FT ABOVE LSD.

LSD 53.40 FT NGVD.

HIGHEST WATER LEVEL 69.15 BELOW LSD, MAR. 3, 1954.

LOWEST WATER LEVEL 93.10 BELOW LSD, FEB. 17, 1981.

RECORDS AVAILABLE 1954-72, 1974-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 93.10          |      |                |      |                |      |                |

301017092321701 LOCAL WELL NUMBER: AC-292

OWNER: SUN OIL CO. (SEC. 48, T. 10S., R. 2W.) DRILLED INDUSTRIAL ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, REPORTED DEPTH 244 FT, SCREENED 224-244, MP TOP OF 1-IN AIRLINE, 3.00 FT ABOVE LSD.  
 LSD 12.07 FT NGVD.  
 HIGHEST WATER LEVEL 25.19 BELOW LSD, APR. 3, 1956.  
 LOWEST WATER LEVEL 43.07 BELOW LSD, AUG. 26, 1965.  
 RECORDS AVAILABLE 1954-69, 1971-72, 1974-75, 1977-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 42.80       |      |             |      |             |      |             |

301832092234501 LOCAL WELL NUMBER: AC-326

OWNER: U. S. GEOL. SURVEY. (SEC. 32, T. 8S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 6 TO 2 IN, DEPTH 202 FT, SCREENED 192-202, MP TOP OF 6-IN CASING, 1.15 FT ABOVE LSD.  
 LSD 25.80 FT NGVD.  
 HIGHEST WATER LEVEL 48.61 BELOW LSD, MAR. 14, 1965.  
 LOWEST WATER LEVEL 83.93 BELOW LSD, JULY 5, 1969.  
 RECORDS AVAILABLE 1964-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE         | WATER LEVEL | DATE         | WATER LEVEL | DATE         | WATER LEVEL |
|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
| OCT. 1, 1980 | 66.53H      | JAN. 5, 1981 | 58.80       | APR. 5, 1981 | 67.70       | JULY 5, 1981 | 72.37       |
| OCT. 5       | 66.04       | JAN. 10      | 59.19       | APR. 10      | 68.84       | JULY 10      | 70.68       |
| OCT. 10      | 65.52       | JAN. 15      | 58.89       | APR. 15      | 70.01       | JULY 15      | 69.48       |
| OCT. 15      | 65.23       | JAN. 20      | 58.63       | APR. 16      | 70.35H      | JULY 20      | 68.90       |
| OCT. 20      | 64.14       | JAN. 23      | 58.92H      | APR. 20      | 71.10       | JULY 22      | 69.13H      |
| OCT. 23      | 63.74H      | JAN. 25      | 58.60       | APR. 25      | 72.61       | JULY 25      | 71.72       |
| OCT. 25      | 63.78       | JAN. 31      | 58.30       | APR. 30      | 73.39       | JULY 31      | 70.51       |
| OCT. 31      | 63.39       | FEB. 5       | 58.23       | MAY 5        | 73.52       | AUG. 5       | 69.70       |
| NOV. 5       | 62.28       | FEB. 10      | 57.48       | MAY 10       | 71.17       | AUG. 10      | 69.32       |
| NOV. 10      | 62.03       | FEB. 15      | 57.71       | MAY 15       | 70.84       | AUG. 15      | 69.02       |
| NOV. 15      | 61.84       | FEB. 17      | 57.28H      | MAY 20       | 71.13       | AUG. 20      | 68.27       |
| NOV. 20      | 61.42       | FEB. 20      | 57.11       | MAY 25       | 72.80       | AUG. 24      | 68.19H      |
| NOV. 25      | 61.00       | FEB. 25      | 56.95       | MAY 26       | 73.40H      | AUG. 25      | 68.35       |
| NOV. 30      | 60.59       | FEB. 28      | 57.26       | MAY 31       | 76.37       | AUG. 31      | 71.40       |
| DEC. 5       | 60.32       | MAR. 5       | 57.25       | JUNE 5       | 77.23       | SEP. 5       | 70.80       |
| DEC. 10      | 59.91       | MAR. 10      | 58.67       | JUNE 10      | 74.06       | SEP. 10      | 69.84       |
| DEC. 15      | 59.62       | MAR. 15      | 59.91       | JUNE 15      | 72.67       | SEP. 15      | 69.54       |
| DEC. 20      | 60.06       | MAR. 19      | 62.30H      | JUNE 16      | 72.32H      | SEP. 20      | 69.63       |
| DEC. 24      | 59.29H      | MAR. 20      | 62.85       | JUNE 20      | 71.83       | SEP. 23      | 69.35H      |
| DEC. 25      | 59.23       | MAR. 25      | 64.34       | JUNE 25      | 75.20       | SEP. 25      | 69.49       |
| DEC. 31      | 59.30       | MAR. 31      | 65.82       | JUNE 30      | 74.09       | SEP. 30      | 69.60       |

301832092234504 LOCAL WELL NUMBER: AC-335U

OWNER: U. S. GEOL. SURVEY. (SEC. 32, T. 8S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 907 FT, SCREENED 902-907, MP TOP OF 1 1/2-IN PIPE, 3.00 FT ABOVE LSD.  
 LSD 24.55 FT NGVD.  
 HIGHEST WATER LEVEL 43.59 BELOW LSD, MAR. 5, 1968.  
 LOWEST WATER LEVEL 62.45 BELOW LSD, AUG. 21, 1974.  
 RECORDS AVAILABLE 1966-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 54.40       |      |             |      |             |      |             |

301832092234503 LOCAL WELL NUMBER: AC-335L

OWNER: U. S. GEOL. SURVEY. (SEC. 32, T. 8S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN EVANGELINE AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 1363 FT, SCREENED 1358-1363, MP TOP OF 1 1/2-IN PIPE, 3.00 FT ABOVE LSD.  
 LSD 24.55 FT NGVD.  
 HIGHEST WATER LEVEL 50.43 BELOW LSD, MAR. 31, 1970.  
 LOWEST WATER LEVEL 64.00 BELOW LSD, FEB. 17, 1981.  
 RECORDS AVAILABLE 1966-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 64.00       |      |             |      |             |      |             |

See footnotes at end of table.

## GROUND-WATER LEVELS

245

## ACADIA PARISH

302654092341001 LOCAL WELL NUMBER: AC-428

OWNER: U. S. GEOL. SURVEY. (SEC. 9, T. 7S., R. 2W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 203 FT, SCREENED 198-203, MP TOP OF 2-IN PIPE, 2.80 FT ABOVE LSD.  
 LSD 42.00 FT NGVD.  
 HIGHEST WATER LEVEL 78.51 BELOW LSD, MAR. 4, 1977.  
 LOWEST WATER LEVEL 92.79 BELOW LSD, JULY 7, 1978.  
 RECORDS AVAILABLE 1977-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 80.40       |      |             |      |             |      |             |

## ASCENSION PARISH

301411090550501 LOCAL WELL NUMBER: AN-2

OWNER: CITY OF GUNZALEZ. (SEC. 28, T. 9S., R. 3E.) DRILLED UNUSED ARTESIAN WELL IN GONZALEZ-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 6 IN, REPORTED DEPTH 590 FT, SCREENED 550-590, MP TOP EDGE OF 2-IN COLLAR, 0.57 FT ABOVE LSD.  
 LSD 8.14 FT NGVD.  
 HIGHEST WATER LEVEL 5.98 ABOVE LSD, MAY 10, 1962.  
 LOWEST WATER LEVEL 6.16 BELOW LSD, JAN. 22, 1981.  
 RECORDS AVAILABLE 1959-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|--------------|-------------|---------------|-------------|---------------|-------------|
| NOV. 5, 1980  | 5.23        | APR. 6, 1981 | 5.12        | JULY 24, 1981 | 2.31        | SEP. 30, 1981 | 4.83        |
| JAN. 22, 1981 | 6.16        |              |             |               |             |               |             |

302008090541601 LOCAL WELL NUMBER: AN-16

OWNER: ROGER M. FRITCHIE. (SEC. 20, T. 8S., R. 3E.) DRILLED DOMESTIC ARTESIAN WELL IN SAND OF PLIOCENE AGE, DIAM 2 IN, DEPTH 1693 FT, SCREENED 1663-1693, MP TOP OF 2-IN CROSS, 0.90 FT ABOVE LSD.  
 LSD 15.00 FT NGVD.  
 HIGHEST WATER LEVEL 45.73 ABOVE LSD, DEC. 8, 1954, FEB. 28, 1955, APR. 28, 1955.  
 LOWEST WATER LEVEL 2.13 ABOVE LSD, APR. 14, 1978.  
 RECORDS AVAILABLE 1954-CURRENT YEAR.

| DATE           | WATER LEVEL | DATE           | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|----------------|-------------|----------------|-------------|------|-------------|------|-------------|
| NOV. 5, 1980 + | 3.53        | APR. 6, 1981 + | 3.04        |      |             |      |             |

## CALCASIEU PARISH

301405093153501 LOCAL WELL NUMBER: CU-77

OWNER: OLIN CORPORATION. (SEC. 35, T. 9S., R. 9W.) DRILLED UNUSED ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 13 TO 6 IN, REPORTED DEPTH 512 FT, SCREENED 448-512, MP TOP OF CASING, 7.63 FT ABOVE LSD.  
 LSD 9.61 FT NGVD.  
 HIGHEST WATER LEVEL 82.11 BELOW LSD, FEB. 14, 1956.  
 LOWEST WATER LEVEL 170.60 BELOW LSD, AUG. 30, 1974.  
 RECORDS AVAILABLE 1955-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE         | WATER LEVEL | DATE         | WATER LEVEL | DATE         | WATER LEVEL |
|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
| OCT. 2, 1980 | 128.58H     | JAN. 5, 1981 | 141.00      | APR. 5, 1981 | 138.78      | JULY 5, 1981 | 140.95      |
| OCT. 5       | 142.50      | JAN. 10      | 141.15      | APR. 10      | 138.50      | JULY 10      | 140.83      |
| OCT. 10      | 139.02      | JAN. 15      | 131.10      | APR. 15      | 139.60      | JULY 15      | 141.20      |
| OCT. 15      | 140.25E     | JAN. 20      | 142.10      | APR. 16      | 139.01H     | JULY 20      | 142.05      |
| OCT. 20      | 144.45      | JAN. 22      | 142.27H     | APR. 20      | 140.10      | JULY 21      | 141.72H     |
| OCT. 22      | 133.38H     | JAN. 25      | 141.20      | APR. 25      | 139.65      | JULY 25      | 141.73      |
| OCT. 25      | 146.75      | JAN. 31      | 141.80      | APR. 30      | 139.70      | JULY 31      | 142.18      |
| OCT. 31      | 146.05      | FEB. 5       | 130.20      | MAY 5        | 135.30      | AUG. 5       | 140.37      |
| NOV. 5       | 146.80      | FEB. 10      | 137.28      | MAY 10       | 140.00      | AUG. 10      | 141.40      |
| NOV. 10      | 148.40      | FEB. 15      | 140.40      | MAY 15       | 139.90      | AUG. 15      | 140.86      |
| NOV. 15      | 147.45      | FEB. 18      | 139.61H     | MAY 20       | 142.27      | AUG. 20      | 142.62      |
| NOV. 19      | 146.97H     | FEB. 20      | 137.80      | MAY 22       | 141.36H     | AUG. 21      | 142.99H     |
| NOV. 20      | 136.75      | FEB. 25      | 137.75      | MAY 25       | 141.70      | AUG. 25      | 143.50      |
| NOV. 25      | 146.65      | FEB. 28      | 137.75      | MAY 31       | 142.60      | AUG. 31      | 142.50      |
| NOV. 30      | 136.40      | MAR. 5       | 138.00      | JUNE 5       | 141.20      | SEP. 5       | 140.48      |
| DEC. 5       | 145.42      | MAR. 10      | 139.25      | JUNE 10      | 142.10      | SEP. 10      | 139.00      |
| DEC. 10      | 145.53      | MAR. 15      | 138.75      | JUNE 15      | 143.00      | SEP. 15      | 138.28      |
| DEC. 15      | 145.02      | MAR. 20      | 136.90      | JUNE 20      | 142.40      | SEP. 20      | 136.90      |
| DEC. 19      | 144.71H     | MAR. 23      | 136.38H     | JUNE 23      | 141.58H     | SEP. 22      | 136.48H     |
| DEC. 20      | 145.37      | MAR. 25      | 136.35      | JUNE 25      | 141.35      | SEP. 25      | 136.23      |
| DEC. 25      | 144.70      | MAR. 31      | 134.30      | JUNE 30      | 141.87      | SEP. 30      | 137.12      |
| DEC. 31      | 142.75      |              |             |              |             |              |             |

See footnotes at end of table.



301300093151101 LOCAL WELL NUMBER: CU-84

OWNER: LAKE CHARLES HARRON AND TERMINAL DISTRICT. (SEC. 2, T. 10S., R. 9W.) DRILLED UNUSED ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 16 TO 6 IN, REPORTED DEPTH 683 FT, SCREENED 623-683. MP TOP OF 1/2-IN CASING, 1.00 FT ABOVE LSD.

LSD 11.07 FT NGVD.

HIGHEST WATER LEVEL 42.23 BELOW LSD, APR. 17, 1950.

LOWEST WATER LEVEL 115.02 BELOW LSD, MAR. 8, 1977.

RECORDS AVAILABLE 1949-51, 1963-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 19, 1981 | 112.68      |      |             |      |             |      |             |

301110093193701 LOCAL WELL NUMBER: CU-97

OWNER: CITIES SERVICE OIL CO. (SEC. 18, T. 10S., R. 9W.) DRILLED UNUSED ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 32 TO 10 IN, REPORTED DEPTH 519 FT, SCREENED 410-519. MP TOP OF 1/2-IN COUPLING, 0.52 FT ABOVE LSD.

LSD 14.78 FT NGVD.

HIGHEST WATER LEVEL 92.14 BELOW LSD, APR. 4, 1956.

LOWEST WATER LEVEL 173.49 BELOW LSD, FEB. 28, 1974.

RECORDS AVAILABLE 1955-75, 1978-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 162.98      |      |             |      |             |      |             |

301516093143101 LOCAL WELL NUMBER: CU-112

OWNER: I. V. MAURER. (SEC. 25, T. 9S., R. 9W.) DRILLED UNUSED ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 210 FT, SCREENED 190-210. MP TOP OF REDUCER, 0.40 FT ABOVE LSD.

LSD 10.00 FT NGVD.

HIGHEST WATER LEVEL 10.51 BELOW LSD, MAR. 7, 1975.

LOWEST WATER LEVEL 48.00 BELOW LSD, FEB. 24, 1972.

RECORDS AVAILABLE 1972, 1975, 1977-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 15.54       |      |             |      |             |      |             |

300905093224501 LOCAL WELL NUMBER: CU-125

OWNER: CITIES SERVICE OIL CO. (SEC. 34, T. 10S., R. 10W.) DRILLED UNUSED ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 24 TO 12 IN, REPORTED DEPTH 700 FT, SCREENED INTERVAL UNKNOWN. MP WIDE CRACK IN WOODEN COVER OVER WELL, 1.10 FT ABOVE LSD.

LSD 14.20 FT NGVD.

HIGHEST WATER LEVEL 10.23 BELOW LSD, APR. 11, 1944.

LOWEST WATER LEVEL 96.10 BELOW LSD, MAR. 10, 1977.

RECORDS AVAILABLE 1943-64, 1977-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 20, 1981 | 95.53       |      |             |      |             |      |             |

300342093005601 LOCAL WELL NUMBER: CU-158

OWNER: RAY GREGG. (SEC. 30, T. 11S., R. 6W.) DRILLED IRRIGATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 24 TO 12 IN, REPORTED DEPTH 440 FT, SCREENED INTERVAL UNKNOWN. MP LOWER LIP OF DISCHARGE PIPE, 2.25 FT ABOVE LSD.

LSD 8.63 FT NGVD.

HIGHEST WATER LEVEL 26.53 BELOW LSD, APR. 15, 1959.

LOWEST WATER LEVEL 55.23 BELOW LSD, AUG. 27, 1962.

RECORDS AVAILABLE 1955-62, 1972-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 45.02       |      |             |      |             |      |             |

## GROUND-WATER LEVELS

247

## CALCASIEU PARISH

300400093091701 LOCAL WELL NUMBER: CU-167

OWNER: L. G. WITTLER. (SEC. 35, T. 11S., R. 8W.) DRILLED IRRIGATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 10 IN, REPORTED DEPTH 350 FT, SCREENED 250-350, MP LOWER EDGE OF DISCHARGE PIPE, 9.48 FT ABOVE LSD.  
 LSD 7.82 FT NGVD.  
 HIGHEST WATER LEVEL 25.08 BELOW LSD, APR. 5, 1956.  
 LOWEST WATER LEVEL 65.33 BELOW LSD, AUG. 27, 1962.  
 RECORDS AVAILABLE 1955-62, 1972-73, 1975-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 19, 1981 | 44.82       |      |             |      |             |      |             |

300440093084501 LOCAL WELL NUMBER: CU-168

OWNER: A. L. GAYLE. (SEC. 26, T. 11S., R. 8W.) DRILLED IRRIGATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 24 TO 12 IN, REPORTED DEPTH 375 FT, SCREENED INTERVAL UNKNOWN, MP LOWER EDGE OF DISCHARGE PIPE, 4.95 FT ABOVE LSD.  
 LSD 7.81 FT NGVD.  
 HIGHEST WATER LEVEL 28.64 BELOW LSD, APR. 29, 1958.  
 LOWEST WATER LEVEL 67.56 BELOW LSD, AUG. 27, 1962.  
 RECORDS AVAILABLE 1958-62, 1972-73, 1975-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 19, 1981 | 48.53       |      |             |      |             |      |             |

300930093091501 LOCAL WELL NUMBER: CU-173

OWNER: R. W. PEYTON AND OTHERS. (SEC. 26, T. 10S., R. 8W.) DRILLED IRRIGATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 24 TO 12 IN, REPORTED DEPTH 726 FT, SCREENED INTERVAL UNKNOWN, MP LOWER LIP OF DISCHARGE PIPE, 4.30 FT ABOVE LSD.  
 LSD 23.53 FT NGVD.  
 HIGHEST WATER LEVEL 28.79 BELOW LSD, MAR. 10, 1947.  
 LOWEST WATER LEVEL 91.15 BELOW LSD, MAR. 16, 1976.  
 RECORDS AVAILABLE 1946-50, 1952-60, 1963-66, 1968-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 19, 1981 | 90.32       |      |             |      |             |      |             |

302700093253701 LOCAL WELL NUMBER: CU-213

OWNER: A. A. DAVIS. (SEC. 18, T. 7S., R. 10W.) DRILLED UNUSED ARTESIAN WELL IN EVANGELINE AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN, REPORTED DEPTH 658 FT, SCREENED 574-658, MP TOP OF COUPLING IN CASING COVER, 1.85 FT ABOVE LSD.  
 LSD 71.05 FT NGVD.  
 HIGHEST WATER LEVEL 61.37 BELOW LSD, NOV. 26, 1963.  
 LOWEST WATER LEVEL 83.72 BELOW LSD, FEB. 27, 1979.  
 RECORDS AVAILABLE 1963-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 76.99       |      |             |      |             |      |             |

302659093253601 LOCAL WELL NUMBER: CU-215

OWNER: NICHOLS INDUSTRIES. (SEC. 18, T. 7S., R. 10W.) DRILLED INDUSTRIAL ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 TO 8 IN, REPORTED DEPTH 365 FT, SCREENED 305-365, MP 1/4-IN PLUG ATOP WELL, AT LSD.  
 LSD 70.55 FT NGVD.  
 HIGHEST WATER LEVEL 57.39 BELOW LSD, APR. 27, 1964.  
 LOWEST WATER LEVEL 73.43 BELOW LSD, JAN. 6, 1971.  
 RECORDS AVAILABLE 1963-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 68.50       |      |             |      |             |      |             |



## LOUISIANA - CALCASIEU PARISH

301634093140202 LOCAL WELL NUMBER: CU-395

OWNER: KUSHNER AND LEE. (SEC. 13, T. 9S., R. 9W.) DRILLED DOMESTIC ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, REPORTED DEPTH 200 FT, SCREENED INTERVAL UNKNOWN, MP HOLE IN CASING COVER, 1.25 FT ABOVE LSD.  
 LSD 12.00 FT NGVD.  
 HIGHEST WATER LEVEL 45.43 BELOW LSD, MAR. 9, 1977.  
 LOWEST WATER LEVEL 51.19 BELOW LSD, FEB. 24, 1972.  
 RECORDS AVAILABLE 1972-73, 1975, 1977, 1979, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 47.18       |      |             |      |             |      |             |

301115093191501 LOCAL WELL NUMBER: CU-445

OWNER: CITIES SERVICE OIL CO. (SEC. 18, T. 10S., R. 9W.) DRILLED UNUSED ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 10 IN, DEPTH 540 FT, SCREENED 460-540, MP TOP OF RECORDER SHELTER FLOOR, 2.00 FT ABOVE LSD.  
 LSD 12.26 FT NGVD.  
 HIGHEST WATER LEVEL 30.96 BELOW LSD, APR. 20, 1947.  
 LOWEST WATER LEVEL 177.75 BELOW LSD, AUG. 23, 1973.  
 RECORDS AVAILABLE 1945-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE         | WATER LEVEL | DATE         | WATER LEVEL | DATE         | WATER LEVEL |
|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
| OCT. 2, 1980 | 156.53H     | JAN. 5, 1981 | 156.31      | APR. 5, 1981 | 155.47      | JULY 5, 1981 | 160.47      |
| OCT. 5       | 157.76      | JAN. 10      | 155.66      | APR. 10      | 156.39      | JULY 10      | 160.93      |
| OCT. 10      | 158.25      | JAN. 15      | 156.17      | APR. 15      | 154.31      | JULY 15      | 158.76      |
| OCT. 15      | 160.94      | JAN. 20      | 155.88      | APR. 16      | 154.45H     | JULY 20      | 159.35      |
| OCT. 20      | 161.03      | JAN. 22      | 155.20H     | APR. 20      | 155.00      | JULY 21      | 158.06H     |
| OCT. 22      | 160.55H     | JAN. 25      | 156.19      | APR. 25      | 154.60      | JULY 25      | 161.84      |
| OCT. 25      | 160.80      | JAN. 31      | 156.65      | APR. 30      | 156.68      | JULY 31      | 159.27      |
| OCT. 31      | 159.59      | FEB. 5       | 157.51      | MAY 5        | 155.42      | AUG. 5       | 159.57      |
| NOV. 5       | 160.24      | FEB. 10      | 154.61      | MAY 10       | 156.78      | AUG. 10      | 159.25      |
| NOV. 10      | 162.08      | FEB. 15      | 158.71      | MAY 15       | 154.22      | AUG. 15      | 160.36      |
| NOV. 15      | 161.07      | FEB. 17      | 157.32H     | MAY 20       | 156.78      | AUG. 20      | 159.72      |
| NOV. 19      | 159.12H     | FEB. 20      | 155.19      | MAY 22       | 156.77H     | AUG. 21      | 159.90H     |
| NOV. 20      | 158.79      | FEB. 25      | 153.36H     | MAY 25       | 157.73      | AUG. 25      | 159.59      |
| NOV. 25      | 160.57      | FEB. 28      | 154.33      | MAY 31       | 160.35      | AUG. 31      | 154.24      |
| NOV. 30      | 160.29      | MAR. 5       | 155.38      | JUNE 5       | 159.60      | SEP. 5       | 152.60      |
| DEC. 5       | 160.38      | MAR. 10      | 154.62      | JUNE 10      | 160.75      | SEP. 10      | 151.38      |
| DEC. 10      | 158.74      | MAR. 15      | 155.06      | JUNE 15      | 158.47      | SEP. 15      | 147.49      |
| DEC. 15      | 158.80      | MAR. 20      | 155.02      | JUNE 20      | 161.58      | SEP. 20      | 147.01      |
| DEC. 19      | 158.14H     | MAR. 23      | 154.30H     | JUNE 23      | 160.83H     | SEP. 22      | 150.25H     |
| DEC. 20      | 158.70      | MAR. 25      | 154.29      | JUNE 25      | 160.27      | SEP. 25      | 151.74      |
| DEC. 25      | 159.62      | MAR. 31      | 153.42      | JUNE 30      | 159.72      | SEP. 30      | 149.41      |
| DEC. 31      | 158.34      |              |             |              |             |              |             |

301115093191001 LOCAL WELL NUMBER: CU-446

OWNER: CITIES SERVICE OIL CO. (SEC. 18, T. 10S., R. 9W.) DRILLED UNUSED ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 10 IN, REPORTED DEPTH 738 FT, SCREENED 658-738, MP TOP OF RECORDER SHELTER FLOOR, 1.89 FT ABOVE LSD.  
 LSD 12.40 FT NGVD.  
 HIGHEST WATER LEVEL 22.80 BELOW LSD, APR. 27, 1946.  
 LOWEST WATER LEVEL 129.80 BELOW LSD, AUG. 5, 1974.  
 RECORDS AVAILABLE 1945-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE         | WATER LEVEL | DATE         | WATER LEVEL | DATE         | WATER LEVEL |
|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
| OCT. 2, 1980 | 118.58H     | JAN. 5, 1981 | 115.55      | APR. 5, 1981 | 112.88      | JULY 5, 1981 | 118.62      |
| OCT. 5       | 118.38      | JAN. 10      | 114.67      | APR. 10      | 113.03      | JULY 10      | 118.53      |
| OCT. 10      | 118.08      | JAN. 15      | 114.52      | APR. 15      | 113.08      | JULY 15      | 118.02      |
| OCT. 15      | 118.11      | JAN. 20      | 114.52      | APR. 16      | 113.02H     | JULY 20      | 118.22      |
| OCT. 20      | 118.09      | JAN. 22      | 114.48H     | APR. 20      | 113.57      | JULY 21      | 118.28H     |
| OCT. 22      | 118.15H     | JAN. 25      | 114.24      | APR. 25      | 114.12      | JULY 25      | 118.50      |
| OCT. 25      | 118.60      | JAN. 31      | 114.59      | APR. 30      | 114.73      | JULY 31      | 118.49      |
| OCT. 31      | 118.43      | FEB. 5       | 114.62      | MAY 5        | 114.85      | AUG. 5       | 118.19      |
| NOV. 5       | 118.17      | FEB. 10      | 113.78      | MAY 10       | 115.36      | AUG. 10      | 117.82      |
| NOV. 10      | 118.28      | FEB. 15      | 114.65      | MAY 15       | 115.78      | AUG. 15      | 117.80      |
| NOV. 15      | 118.14      | FEB. 17      | 114.54H     | MAY 20       | 116.32      | AUG. 20      | 118.02      |
| NOV. 19      | 118.10H     | FEB. 20      | 114.30      | MAY 22       | 116.63H     | AUG. 21      | 117.93H     |
| NOV. 20      | 117.89      | FEB. 25      | 113.82H     | MAY 25       | 117.36      | AUG. 25      | 118.28      |
| NOV. 25      | 117.34      | FEB. 28      | 113.52      | MAY 31       | 118.57      | AUG. 31      | 117.41      |
| NOV. 30      | 117.32      | MAR. 5       | 113.58      | JUNE 5       | 118.77      | SEP. 5       | 116.40      |
| DEC. 5       | 117.02      | MAR. 10      | 113.55      | JUNE 10      | 118.83      | SEP. 10      | 115.82      |
| DEC. 10      | 116.91      | MAR. 15      | 113.27      | JUNE 15      | 118.45      | SEP. 15      | 115.23      |
| DEC. 15      | 116.42      | MAR. 20      | 113.35      | JUNE 20      | 118.87      | SEP. 20      | 114.57      |
| DEC. 19      | 116.43H     | MAR. 23      | 113.35H     | JUNE 23      | 118.92H     | SEP. 22      | 114.36H     |
| DEC. 20      | 116.58      | MAR. 25      | 113.22      | JUNE 25      | 118.89      | SEP. 25      | 114.47      |
| DEC. 25      | 116.46      | MAR. 31      | 112.92      | JUNE 30      | 118.51      | SEP. 30      | 114.38      |
| DEC. 31      | 115.43      |              |             |              |             |              |             |

See footnotes at end of table.

## GROUND-WATER LEVELS

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## CALCASIEU PARISH

300910093224001 LOCAL WELL NUMBER: CU-453

OWNER: COOPER PATTERSON. (SEC. 34, T. 10S., R. 10W.) DRILLED UNUSED ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLISTOCENE AGE, DIAM 18 TO 9 IN, REPORTED DEPTH 345 FT, SCREENED 241-345, MP LOWER LIP OF DISCHARGE PIPE, 4.25 FT ABOVE LSD.  
 LSD 13.19 FT NGVD.  
 HIGHEST WATER LEVEL 30.65 BELOW LSD, MAY 1, 1950.  
 LOWEST WATER LEVEL 67.88 BELOW LSD, MAR. 2, 1979.  
 RECORDS AVAILABLE 1948-62, 1972, 1975-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 20, 1981 | 66.14          |      |                |      |                |      |                |

301424093125301 LOCAL WELL NUMBER: CU-457

OWNER: GREATER LAKE CHARLES WATER CO. (SEC. 31, T. 9S., R. 8W.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLISTOCENE AGE, DIAM 16 TO 10 IN, DEPTH 697 FT, SCREENED 617-697, MP VENT IN SIDE OF CASING, 2.50 FT ABOVE LSD.  
 LSD 15.00 FT NGVD.  
 HIGHEST WATER LEVEL 30.00 BELOW LSD, OCT. 17, 1946.  
 LOWEST WATER LEVEL 107.45 BELOW LSD, MAR. 24, 1976.  
 RECORDS AVAILABLE 1946, 1976, 1978, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 20, 1981 | 103.64         |      |                |      |                |      |                |

300651043243101 LOCAL WELL NUMBER: CU-515

OWNER: M. J. ELLENDER ESTATE. (SEC. 8, T. 11S., R. 10W.) DRILLED IRRIGATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLISTOCENE AGE, DIAM 18 TO 10 IN, REPORTED DEPTH 573 FT, SCREENED 554-573, MP LOWER LIP OF DISCHARGE PIPE, 6.10 FT ABOVE LSD.  
 LSD 11.15 FT NGVD.  
 HIGHEST WATER LEVEL 36.85 BELOW LSD, APR. 6, 1956.  
 LOWEST WATER LEVEL 79.32 BELOW LSD, FEB. 28, 1973.  
 RECORDS AVAILABLE 1955-76, 1979, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 19, 1981 | 75.35          |      |                |      |                |      |                |

302236093140002 LOCAL WELL NUMBER: CU-517

OWNER: SWEEFLAKE LAND AND OIL CO. (SEC. 12, T. 8S., R. 9W.) DRILLED IRRIGATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLISTOCENE AGE, DIAM 18 TO 10 IN, REPORTED DEPTH 439 FT, SCREENED 357-439, MP LOWER LIP OF DISCHARGE PIPE, 7.10 FT ABOVE LSD.  
 LSD 38.80 FT NGVD.  
 HIGHEST WATER LEVEL 45.24 BELOW LSD, APR. 4, 1956.  
 LOWEST WATER LEVEL 76.19 BELOW LSD, MAR. 11, 1976.  
 RECORDS AVAILABLE 1955-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 18, 1981 | 69.10          |      |                |      |                |      |                |

300535093060001 LOCAL WELL NUMBER: CU-519

OWNER: F. H. HELMS. (SEC. 17, T. 11S., R. 7W.) DRILLED IRRIGATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLISTOCENE AGE, DIAM 20 TO 12 IN, REPORTED DEPTH 364 FT, SCREENED 284-364, MP LOWER LIP OF DISCHARGE PIPE, 5.38 FT ABOVE LSD.  
 LSD 16.50 FT NGVD.  
 HIGHEST WATER LEVEL 46.49 BELOW LSD, JAN. 1, 1972.  
 LOWEST WATER LEVEL 57.39 BELOW LSD, FEB. 18, 1981.  
 RECORDS AVAILABLE 1972, 1977, 1979, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 18, 1981 | 57.39          |      |                |      |                |      |                |

300806093360601 LOCAL WELL NUMBER: CU-530

OWNER: MATILDA GRAY ESTATE. (SEC. 4, T. 11S., R. 12W.) DRILLED IRRIGATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 20 TO 10 IN, REPORTED DEPTH 595 FT, SCREENED 515-595, MP LOWER LIP OF DISCHARGE PIPE, AT LSD.  
 LSD 9.32 FT NGVD.  
 HIGHEST WATER LEVEL 22.42 BELOW LSD, MAR. 16, 1955,  
 LOWEST WATER LEVEL 57.40 BELOW LSD, FEB. 28, 1973.  
 RECORDS AVAILABLE 1955-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 20, 1981 | 53.89       |      |             |      |             |      |             |

302347093272901 LOCAL WELL NUMBER: CU-548

OWNER: CIRCLE DRILLING CO. (SEC. 2, T. 8S., R. 11W.) DRILLED INDUSTRIAL ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 IN, REPORTED DEPTH 250 FT, SCREENED INTERVAL UNKNOWN, MP TOP OF 1-IN AIRLINE, 4.00 FT ABOVE LSD.  
 LSD 42.00 FT NGVD.  
 HIGHEST WATER LEVEL 32.21 BELOW LSD, APR. 1, 1954,  
 LOWEST WATER LEVEL 53.94 BELOW LSD, FEB. 29, 1972.  
 RECORDS AVAILABLE 1954-62, 1972-78, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 53.51       |      |             |      |             |      |             |

300312093073801 LOCAL WELL NUMBER: CU-549

OWNER: WALKER-LA. PROPERTIES. (SEC. 30, T. 11S., R. 7W.) DRILLED IRRIGATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM UNKNOWN, REPORTED DEPTH 360 FT, SCREENED INTERVAL UNKNOWN, MP LOWER LIP OF DISCHARGE PIPE, 5.99 FT ABOVE LSD.  
 LSD 6.81 FT NGVD.  
 HIGHEST WATER LEVEL 25.67 BELOW LSD, APR. 29, 1958,  
 LOWEST WATER LEVEL 55.31 BELOW LSD, AUG. 27, 1963.  
 RECORDS AVAILABLE 1958-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 19, 1981 | 44.56       |      |             |      |             |      |             |

301431093131501 LOCAL WELL NUMBER: CU-553

OWNER: GREATER LAKE CHARLES WATER CO. (SEC. 31, T. 9S., R. 8W.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 20 TO 12 IN, DEPTH 670 FT, SCREENED 584-670, MP AIR VENT HOLE IN PUMP RASE, 1.00 FT ABOVE LSD.  
 LSD 15.00 FT NGVD.  
 HIGHEST WATER LEVEL 94.45 BELOW LSD, FEB. 20, 1981,  
 LOWEST WATER LEVEL 114.28 BELOW LSD, MAR. 9, 1979.  
 RECORDS AVAILABLE 1979, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 20, 1981 | 94.45       |      |             |      |             |      |             |

301430093162401 LOCAL WELL NUMBER: CU-561

OWNER: CONTINENTAL OIL CO. (SEC. 34, T. 9S., R. 9W.) DRILLED UNUSED ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 26 TO 16 IN, DEPTH 287 FT, SCREENED 227-287, MP SQUARE HOLE IN BRASS PLUG, AT LSD.  
 LSD 10.00 FT NGVD.  
 HIGHEST WATER LEVEL 64.10 BELOW LSD, MAR. 9, 1977,  
 LOWEST WATER LEVEL 69.91 BELOW LSD, FEB. 29, 1972.  
 RECORDS AVAILABLE 1972-73, 1975, 1977-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 65.15       |      |             |      |             |      |             |

## CALCASIEU PARISH

301945093291301 LOCAL WELL NUMBER: CU-570

OWNER: INDUSTRIAL LUMBER CO. (SEC. 28, T. 8S., R. 11W.) DRILLED IRRIGATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 26 TO 12 IN, REPORTED DEPTH 400 FT, SCREENED INTERVAL UNKNOWN. MP OPENING TO CASING IN PUMP BASE AT 3/4-IN NIPPLE BELOW DRIVE SHAFT U-JOINT, 1.10 FT ABOVE LSD.

LSD 35.16 FT NGVD.

HIGHEST WATER LEVEL 37.28 BELOW LSD, SEP. 25, 1957,

LOWEST WATER LEVEL 65.45 BELOW LSD, MAR. 1, 1973.

RECORDS AVAILABLE 1955-76, 1978-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 18, 1981 | 57.14          |      |                |      |                |      |                |

301509093252102 LOCAL WELL NUMBER: CU-581

OWNER: PPG INDUSTRIES. (SEC. 30, T. 9S., R. 10W.) DRILLED UNUSED ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 16 TO 8 IN, REPORTED DEPTH 469 FT, SCREENED 409-469. MP TOP OF 16-IN CASING, 0.80 FT ABOVE LSD.

LSD 14.44 FT NGVD.

HIGHEST WATER LEVEL 49.38 BELOW LSD, JAN. 7, 1963,

LOWEST WATER LEVEL 78.33 BELOW LSD, MAR. 4, 1974.

RECORDS AVAILABLE 1962-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 19, 1981 | 76.88          |      |                |      |                |      |                |

300818093224601 LOCAL WELL NUMBER: CU-614

OWNER: MAURICE DROST. (SEC. 3, T. 11S., R. 10W.) DRILLED IRRIGATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 20 TO 11 IN, REPORTED DEPTH 545 FT, SCREENED 465-545. MP LOWER LIP OF DISCHARGE PIPE, 5.30 FT ABOVE LSD.

LSD 10.31 FT NGVD.

HIGHEST WATER LEVEL 44.41 BELOW LSD, MAR. 14, 1955,

LOWEST WATER LEVEL 89.91 BELOW LSD, MAR. 4, 1974.

RECORDS AVAILABLE 1955-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 20, 1981 | 86.86          |      |                |      |                |      |                |

302240093400001 LOCAL WELL NUMBER: CU-625

OWNER: EDGERLY RICE DRYER. (SEC. 11, T. 8S., R. 13W.) DRILLED IRRIGATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN, REPORTED DEPTH 460 FT, SCREENED 380-460. MP LOWER LIP OF DISCHARGE PIPE, 6.00 FT ABOVE LSD (SINCE 3/3/81).

LSD 48.56 FT NGVD.

HIGHEST WATER LEVEL 30.84 BELOW LSD, APR. 3, 1956,

LOWEST WATER LEVEL 49.04 BELOW LSD, AUG. 26, 1964.

RECORDS AVAILABLE 1954-75, 1977-79, CURRENT YEAR.

| DATE         | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|--------------|----------------|------|----------------|------|----------------|------|----------------|
| MAR. 3, 1981 | 48.50          |      |                |      |                |      |                |

302044093160401 LOCAL WELL NUMBER: CU-632

OWNER: QUATRE PARISH CO. (SEC. 22, T. 8S., R. 9W.) DRILLED IRRIGATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 20 TO 12 IN, REPORTED DEPTH 202 FT, SCREENED 142-202. MP LOWER LIP OF DISCHARGE PIPE, 8.00 FT ABOVE LSD.

LSD 25.45 FT NGVD.

HIGHEST WATER LEVEL 31.68 BELOW LSD, APR. 28, 1958,

LOWEST WATER LEVEL 46.90 BELOW LSD, MAR. 9, 1969.

RECORDS AVAILABLE 1955-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 18, 1981 | 44.91          |      |                |      |                |      |                |

301250093321101 LOCAL WELL NUMBER: CU-635

OWNER: E. C. FONTENOT, (SEC. 6, T. 10S., R. 11W.) DRILLED IRRIGATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 22 TO 10 IN, REPORTED DEPTH 460 FT, SCREENED 360-460, MP LOWER LIP OF DISCHARGE PIPE, 8.50 FT ABOVE LSD.  
 LSD 19.92 FT NGVD.  
 HIGHEST WATER LEVEL 33.38 BELOW LSD, MAR. 31, 1955.  
 LOWEST WATER LEVEL 80.62 BELOW LSD, JULY 17, 1974.  
 RECORDS AVAILABLE 1955-57, 1959-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 19, 1981 | 65.97       |      |             |      |             |      |             |

300714093074801 LOCAL WELL NUMBER: CU-641

OWNER: WALKER-LA. PROPERTIES, (SEC. 12, T. 11S., R. 8W.) DRILLED IRRIGATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 10 IN, REPORTED DEPTH 368 FT, SCREENED 268-368, MP LOWER LIP OF DISCHARGE PIPE, 12.10 FT ABOVE LSD.  
 LSD 11.50 FT NGVD.  
 HIGHEST WATER LEVEL 48.47 BELOW LSD, MAR. 11, 1976.  
 LOWEST WATER LEVEL 54.97 BELOW LSD, FEB. 18, 1981.  
 RECORDS AVAILABLE 1972-73, 1976-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 54.97       |      |             |      |             |      |             |

301641093035901 LOCAL WELL NUMBER: CU-642

OWNER: F. HEYD, (SEC. 10, T. 9S., R. 7W.) DRILLED IRRIGATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 14 TO 8 IN, REPORTED DEPTH 287 FT, SCREENED INTERVAL UNKNOWN, MP LOWER LIP OF DISCHARGE PIPE, 5.40 FT ABOVE LSD.  
 LSD 19.00 FT NGVD.  
 HIGHEST WATER LEVEL 52.48 BELOW LSD, MAR. 7, 1975.  
 LOWEST WATER LEVEL 57.31 BELOW LSD, FEB. 18, 1981.  
 RECORDS AVAILABLE 1972, 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 57.31       |      |             |      |             |      |             |

301154093123801 LOCAL WELL NUMBER: CU-661

OWNER: GREATER LAKE CHARLES WATER CO. (SEC. 8, T. 10S., R. 8W.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 20 TO 12 IN, DEPTH 729 FT, SCREENED 649-729, MP VENT IN TOP OF CASING, 0.60 FT ABOVE LSD.  
 LSD 15.00 FT NGVD.  
 HIGHEST WATER LEVEL 96.17 BELOW LSD, MAR. 10, 1977.  
 LOWEST WATER LEVEL 113.70 BELOW LSD, FEB. 20, 1981.  
 RECORDS AVAILABLE 1977-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 20, 1981 | 113.70      |      |             |      |             |      |             |

301155093123801 LOCAL WELL NUMBER: CU-683

OWNER: GREATER LAKE CHARLES WATER CO. (SEC. 8, T. 10S., R. 8W.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 26 TO 12 IN, DEPTH 497 FT, SCREENED 417-497, MP VENT IN SIDE OF CASING, 2.50 FT ABOVE LSD.  
 LSD 17.50 FT NGVD.  
 HIGHEST WATER LEVEL 101.97 BELOW LSD, FEB. 20, 1981.  
 LOWEST WATER LEVEL 110.12 BELOW LSD, MAR. 24, 1976.  
 RECORDS AVAILABLE 1976, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 20, 1981 | 101.97      |      |             |      |             |      |             |



## GROUND-WATER LEVELS

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## CALCASIEU PARISH

300540093130301 LOCAL WELL NUMBER: CU-688

OWNER: WALKER-LA. PROPERTIES. (SEC. 19, T. 11S., R. 8W.) DRILLED IRRIGATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 20 TO 14 IN, REPORTED DEPTH 694 FT, SCREENED 614-694, MP LOWER LIP OF DISCHARGE PIPE, 10.00 FT ABOVE LSD (SINCE 2/19/81).  
 LSD 10.96 FT NGVD.  
 HIGHEST WATER LEVEL 42.78 BELOW LSD, APR. 29, 1958.  
 LOWEST WATER LEVEL 76.38 BELOW LSD, MAR. 12, 1979.  
 RECORDS AVAILABLE 1958-69, 1971-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 19, 1981 | 74.94       |      |             |      |             |      |             |

301420093130701 LOCAL WELL NUMBER: CU-718

OWNER: GREATER LAKE CHARLES WATER CO. (SEC. 31, T. 9S., R. 8W.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 26 TO 16 IN, DEPTH 500 FT, SCREENED 400-500, MP VENT IN TOP OF CASING, 1.00 FT ABOVE LSD.  
 LSD 15.00 FT NGVD.  
 HIGHEST WATER LEVEL 99.49 BELOW LSD, MAR. 10, 1977.  
 LOWEST WATER LEVEL 104.57 BELOW LSD, FEB. 20, 1981.  
 RECORDS AVAILABLE 1977-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 20, 1981 | 104.57      |      |             |      |             |      |             |

300816093125101 LOCAL WELL NUMBER: CU-724

OWNER: LAKE CHARLES MUNICIPAL AIRPORT. (SEC. 6, T. 11S., R. 8W.) DRILLED UNUSED ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 10 IN, REPORTED DEPTH 653 FT, SCREENED 573-653, MP TOP OF LOWER LIP OF PIPE COUPLING, 0.84 FT ABOVE LSD.  
 LSD 18.37 FT NGVD.  
 HIGHEST WATER LEVEL 61.50 BELOW LSD, MAR. 27, 1962.  
 LOWEST WATER LEVEL 97.14 BELOW LSD, SEP. 10, 1971.  
 RECORDS AVAILABLE 1962-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 88.41       |      |             |      |             |      |             |

301404093170501 LOCAL WELL NUMBER: CU-725

OWNER: U. S. GEOL. SURVEY. (SEC. 33, T. 9S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 640 FT, SCREENED 630-640, MP TOP OF 2-IN CASING, 2.00 FT ABOVE LSD.  
 LSD 17.50 FT NGVD.  
 HIGHEST WATER LEVEL 98.10 BELOW LSD, MAR. 2, 1962.  
 LOWEST WATER LEVEL 147.59 BELOW LSD, MAY 19, 1978.  
 RECORDS AVAILABLE 1961-72, 1975-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 147.11      | FEB. 23, 1981 | 138.57      |      |             |      |             |

301405093171006 LOCAL WELL NUMBER: CU-730

OWNER: U. S. GEOL. SURVEY. (SEC. 33, T. 9S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 165 FT, SCREENED 155-165, MP TOP OF 2-IN PIPE, 1.60 FT ABOVE LSD.  
 LSD 17.67 FT NGVD.  
 HIGHEST WATER LEVEL 54.64 BELOW LSD, MAR. 29, 1963.  
 LOWEST WATER LEVEL 85.66 BELOW LSD, AUG. 5, 1974.  
 RECORDS AVAILABLE 1961-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 22, 1980 | 75.25       | JAN. 22, 1981 | 73.89       | APR. 16, 1981 | 74.01       | JULY 21, 1981 | 75.87       |
| NOV. 19       | 74.78       | FEB. 17       | 73.73       | MAY 22        | 74.50       | AUG. 21       | 76.26       |
| DEC. 19       | 74.45       | MAR. 23       | 73.04       | JUNE 23       | 75.67       | SEP. 22       | 75.98       |



301258093172401 LOCAL WELL NUMBER: CU-731

OWNER: U. S. GEOL. SURVEY. (SEC. 4, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 659 FT, SCREENED 650-659, MP TOP OF 2-IN CASING, 1.80 FT ABOVE LSD.  
 LSD 11.79 FT NGVD.  
 HIGHEST WATER LEVEL 87.33 BELOW LSD, APR. 2, 1962,  
 LOWEST WATER LEVEL 142.88 BELOW LSD, JULY 25, 1974.  
 RECORDS AVAILABLE 1962-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 131.53         |      |                |      |                |      |                |

301258093172402 LOCAL WELL NUMBER: CU-732

OWNER: U. S. GEOL. SURVEY. (SEC. 4, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 492 FT, SCREENED 480-492, MP TOP OF 2-IN CASING, 1.28 FT ABOVE LSD.  
 LSD 12.08 FT NGVD.  
 HIGHEST WATER LEVEL 90.15 BELOW LSD, APR. 2, 1962,  
 LOWEST WATER LEVEL 148.01 BELOW LSD, OCT. 2, 1974.  
 RECORDS AVAILABLE 1962-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 136.33         |      |                |      |                |      |                |

301258093172403 LOCAL WELL NUMBER: CU-733

OWNER: U. S. GEOL. SURVEY. (SEC. 4, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 201 FT, SCREENED 191-201, MP TOP OF 2-IN CASING, 1.80 FT ABOVE LSD.  
 LSD 12.16 FT NGVD.  
 HIGHEST WATER LEVEL 49.54 BELOW LSD, MAR. 29, 1963,  
 LOWEST WATER LEVEL 74.90 BELOW LSD, JULY 25, 1974.  
 RECORDS AVAILABLE 1962-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 68.99          |      |                |      |                |      |                |

301315093165501 LOCAL WELL NUMBER: CU-737

OWNER: U. S. GEOL. SURVEY. (SEC. 3, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 700 FT, SCREENED 690-700, MP TOP OF 1-IN CASING, 3.35 FT ABOVE LSD.  
 LSD 6.89 FT NGVD.  
 HIGHEST WATER LEVEL 87.66 BELOW LSD, APR. 2, 1962,  
 LOWEST WATER LEVEL 145.17 BELOW LSD, JULY 25, 1974.  
 RECORDS AVAILABLE 1962-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL |
|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|
| OCT. 22, 1980 | 137.15         | FEB. 17, 1981 | 131.22         | APR. 16, 1981 | 129.87         | JULY 21, 1981 | 131.21         |
| NOV. 19       | 141.72         | FEB. 26       | 130.26         | MAY 22        | 134.23         | AUG. 21       | 135.90         |
| DEC. 19       | 133.75         | MAR. 23       | 130.33         | JUNE 23       | 131.59         | SEP. 22       | 129.79         |
| JAN. 22, 1981 | 129.97         |               |                |               |                |               |                |

301315093165502 LOCAL WELL NUMBER: CU-738

OWNER: U. S. GEOL. SURVEY. (SEC. 3, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 560 FT, SCREENED 550-560, MP TOP OF 2-IN CASING, 1.66 FT ABOVE LSD.  
 LSD 6.57 FT NGVD.  
 HIGHEST WATER LEVEL 91.64 BELOW LSD, APR. 2, 1962,  
 LOWEST WATER LEVEL 152.55 BELOW LSD, JULY 25, 1974.  
 RECORDS AVAILABLE 1962-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 135.20         |      |                |      |                |      |                |

## GROUND-WATER LEVELS

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## CALCASIEU PARISH

301315093165503 LOCAL WELL NUMBER: CU-739

OWNER: U. S. GEOL. SURVEY. (SEC. 3, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 201 FT, SCREENED 191-201. MP TOP OF 2-IN PIPE, 1.91 FT ABOVE LSD.  
 LSD 6.63 FT NGVD.  
 HIGHEST WATER LEVEL 32.14 BELOW LSD, JAN. 21, 1975.  
 LOWEST WATER LEVEL 68.83 BELOW LSD, JAN. 24, 1973.  
 RECORDS AVAILABLE 1962-73, 1975-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 65.09          |      |                |      |                |      |                |

301300093161601 LOCAL WELL NUMBER: CU-746

OWNER: U. S. GEOL. SURVEY. (SEC. 3, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 780 FT, SCREENED 770-780. MP TOP OF 2-IN CASING, 2.00 FT ABOVE LSD.  
 LSD 7.22 FT NGVD.  
 HIGHEST WATER LEVEL 80.32 BELOW LSD, APR. 30, 1962.  
 LOWEST WATER LEVEL 131.63 BELOW LSD, MAR. 8, 1969.  
 RECORDS AVAILABLE 1962-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 18, 1981 | 117.72         |      |                |      |                |      |                |

301300093161602 LOCAL WELL NUMBER: CU-747

OWNER: U. S. GEOL. SURVEY. (SEC. 3, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 540 FT, SCREENED 530-540. MP TOP OF 2-IN CASING, 2.00 FT ABOVE LSD.  
 LSD 7.17 FT NGVD.  
 HIGHEST WATER LEVEL 88.60 BELOW LSD, MAR. 29, 1963.  
 LOWEST WATER LEVEL 134.14 BELOW LSD, JUNE 21, 1978.  
 RECORDS AVAILABLE 1963-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 18, 1981 | 125.84         |      |                |      |                |      |                |

301300093161603 LOCAL WELL NUMBER: CU-748

OWNER: U. S. GEOL. SURVEY. (SEC. 3, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 280 FT, SCREENED 270-280. MP TOP OF 2-IN CASING, 2.12 FT ABOVE LSD.  
 LSD 7.15 FT NGVD.  
 HIGHEST WATER LEVEL 43.52 BELOW LSD, MAR. 29, 1963.  
 LOWEST WATER LEVEL 69.76 BELOW LSD, NOV. 25, 1968.  
 RECORDS AVAILABLE 1963-73, 1976-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 18, 1981 | 62.80          |      |                |      |                |      |                |

301321093125501 LOCAL WELL NUMBER: CU-755

OWNER: PURE ICE CO. (SEC. 6, T. 10S., R. 9W.) DRILLED UNUSED ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 10 TO 6 IN, REPORTED DEPTH 430 FT, SCREENED 370-430. MP ACCESS HOLE IN PUMP BASE, 2.83 FT ABOVE LSD.  
 LSD 8.29 FT NGVD.  
 HIGHEST WATER LEVEL 67.72 BELOW LSD, APR. 1, 1963.  
 LOWEST WATER LEVEL 111.17 BELOW LSD, SEP. 10, 1971.  
 RECORDS AVAILABLE 1962-75, 1977-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 94.97          |      |                |      |                |      |                |

## 301036093124401 LOCAL WELL NUMBER: CU-767

OWNER: U. S. GEOL. SURVEY. (SEC. 20, T. 10S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 850 FT, SCREENED 840-850, MP TOP OF 2-IN CASING, 1.99 FT ABOVE LSD, LSD 11.42 FT NGVD.  
 HIGHEST WATER LEVEL 63.26 BELOW LSD, MAR. 29, 1963,  
 LOWEST WATER LEVEL 105.98 BELOW LSD, SEP. 30, 1974.  
 RECORDS AVAILABLE 1963-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|--------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 22, 1980 | 94.43       | FEB. 9, 1981 | 91.05       | APR. 16, 1981 | 91.42       | JULY 24, 1981 | 97.90       |
| NOV. 19       | 93.99       | FEB. 17      | 91.08       | MAY 22        | 96.83       | AUG. 21       | 96.32       |
| DEC. 19       | 92.65       | MAR. 23      | 89.99       | JUNE 22       | 98.18       | SEP. 22       | 94.99       |
| JAN. 22, 1981 | 91.41       |              |             |               |             |               |             |

## 301036093124402 LOCAL WELL NUMBER: CU-768

OWNER: U. S. GEOL. SURVEY. (SEC. 20, T. 10S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 306 FT, SCREENED 296-306, MP TOP OF 2-IN CASING, 2.40 FT ABOVE LSD, LSD 11.53 FT NGVD.  
 HIGHEST WATER LEVEL 53.00 BELOW LSD, MAR. 29, 1963,  
 LOWEST WATER LEVEL 89.59 BELOW LSD, FEB. 28, 1973.  
 RECORDS AVAILABLE 1963-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 22, 1980 | 78.46       | JAN. 22, 1981 | 75.78       | APR. 16, 1981 | 75.16       | JULY 24, 1981 | 79.78       |
| NOV. 19       | 77.65       | FEB. 17       | 75.38       | MAY 22        | 78.40       | AUG. 21       | 79.86       |
| DEC. 19       | 76.64       | MAR. 23       | 74.99       | JUNE 22       | 80.06       | SEP. 22       | 79.38       |

## 301336093183001 LOCAL WELL NUMBER: CU-769

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 642 FT, SCREENED 632-642, MP TOP OF 2-IN CASING, 2.00 FT ABOVE LSD, LSD 17.62 FT NGVD.  
 HIGHEST WATER LEVEL 91.56 BELOW LSD, MAR. 28, 1963,  
 LOWEST WATER LEVEL 146.44 BELOW LSD, JULY 25, 1974.  
 RECORDS AVAILABLE 1963-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 131.42      | FEB. 23, 1981 | 130.96      |      |             |      |             |

## 301336093183003 LOCAL WELL NUMBER: CU-770

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 490 FT, SCREENED 480-490, MP TOP OF 2-IN CASING, 2.13 FT ABOVE LSD, LSD 17.54 FT NGVD.  
 HIGHEST WATER LEVEL 91.77 BELOW LSD, MAR. 28, 1963,  
 LOWEST WATER LEVEL 146.72 BELOW LSD, JULY 25, 1974.  
 RECORDS AVAILABLE 1963-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 131.71      |      |             |      |             |      |             |

## 301336093183002 LOCAL WELL NUMBER: CU-771

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 241 FT, SCREENED 231-241, MP TOP OF 2-IN CASING, 2.02 FT ABOVE LSD, LSD 17.76 FT NGVD.  
 HIGHEST WATER LEVEL 54.97 BELOW LSD, MAR. 28, 1963,  
 LOWEST WATER LEVEL 83.83 BELOW LSD, JULY 21, 1971.  
 RECORDS AVAILABLE 1963-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 75.23       |      |             |      |             |      |             |

## GROUND-WATER LEVELS

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## CALCASIEU PARISH

301814093384001 LOCAL WELL NUMBER: CU-781

OWNER: EDGERLY RICE DRYER. (SEC. 1, T. 9S., R. 13W.) DRILLED IRRIGATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 22 TO 12 IN, REPORTED DEPTH 460 FT, SCREENED 380-460, MP LOWER LIP OF DISCHARGE PIPE, 5.16 FT ABOVE LSD.  
 LSD 34.59 FT NGVD.  
 HIGHEST WATER LEVEL 38.75 BELOW LSD, APR. 4, 1964,  
 LOWEST WATER LEVEL 58.00 BELOW LSD, SEP. 13, 1971.  
 RECORDS AVAILABLE 1964-74, 1976-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 19, 1981 | 52.87       |      |             |      |             |      |             |

301218093175803 LOCAL WELL NUMBER: CU-784

OWNER: U. S. GEOL. SURVEY. (SEC. 9, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 6 IN, DEPTH 532 FT, SCREENED 522-532, MP TOP OF 2-IN PLASTIC PIPE, 2.00 FT ABOVE LSD.  
 LSD 10.78 FT NGVD.  
 HIGHEST WATER LEVEL 89.65 BELOW LSD, APR. 8, 1964,  
 LOWEST WATER LEVEL 144.88 BELOW LSD, JULY 25, 1974.  
 RECORDS AVAILABLE 1964-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 10, 1981 | 126.73      |      |             |      |             |      |             |

300820093131903 LOCAL WELL NUMBER: CU-786U

OWNER: U. S. GEOL. SURVEY. (SEC. 6, T. 11S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 840 FT, SCREENED 830-840, MP TOP OF 4-IN CASING, 2.63 FT ABOVE LSD.  
 LSD 13.25 FT NGVD.  
 HIGHEST WATER LEVEL 62.19 BELOW LSD, APR. 14, 1965,  
 LOWEST WATER LEVEL 104.48 BELOW LSD, JULY 21, 1971.  
 RECORDS AVAILABLE 1964-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 85.07       | FEB. 25, 1981 | 84.92       |      |             |      |             |

300820093131904 LOCAL WELL NUMBER: CU-786L

OWNER: U. S. GEOL. SURVEY. (SEC. 6, T. 11S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 880 FT, SCREENED 870-880, MP TOP OF 4-IN CASING, 2.63 FT ABOVE LSD.  
 LSD 13.25 FT NGVD.  
 HIGHEST WATER LEVEL 62.32 BELOW LSD, APR. 14, 1965,  
 LOWEST WATER LEVEL 100.71 BELOW LSD, JULY 30, 1973.  
 RECORDS AVAILABLE 1964-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 85.73       | FEB. 25, 1981 | 85.03       |      |             |      |             |

300353093210201 LOCAL WELL NUMBER: CU-787

OWNER: U. S. GEOL. SURVEY. (SEC. 36, T. 11S., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 734 FT, SCREENED 729-734, MP TOP OF 2-IN CASING, 4.00 FT ABOVE LSD.  
 LSD 4.33 FT NGVD.  
 HIGHEST WATER LEVEL 46.98 BELOW LSD, APR. 13, 1965,  
 LOWEST WATER LEVEL 78.58 BELOW LSD, AUG. 2, 1972.  
 RECORDS AVAILABLE 1964-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 20, 1981 | 68.01       |      |             |      |             |      |             |

300825093260801 LOCAL WELL NUMBER: CU-788

OWNER: U. S. GEOL. SURVEY. (SEC. 36, T. 10S., R. 11W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 805 FT, SCREENED 800-805. MP TOP OF 2-IN CASING, 2.00 FT ABOVE LSD.  
 LSD 6.11 FT NGVD.  
 HIGHEST WATER LEVEL 47.61 BELOW LSD, APR. 12, 1965,  
 LOWEST WATER LEVEL 77.82 BELOW LSD, AUG. 2, 1972.  
 RECORDS AVAILABLE 1964-75, 1977-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|--------------|-------------|---------------|-------------|------|-------------|------|-------------|
| FEB. 3, 1981 | 68.74       | FEB. 19, 1981 | 68.30       |      |             |      |             |

301100093200001 LOCAL WELL NUMBER: CU-789

OWNER: U. S. GEOL. SURVEY. (SEC. 19, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 640 FT, SCREENED 635-640. MP TOP OF 2-IN CASING, 2.00 FT ABOVE LSD.  
 LSD 18.42 FT NGVD.  
 HIGHEST WATER LEVEL 86.31 BELOW LSD, APR. 12, 1965,  
 LOWEST WATER LEVEL 131.68 BELOW LSD, AUG. 2, 1972.  
 RECORDS AVAILABLE 1964-75, 1977-79, CURRENT YEAR.

| DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|--------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 3, 1981 | 114.84      |      |             |      |             |      |             |

302337093244601 LOCAL WELL NUMBER: CU-790

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 8S., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 360 FT, SCREENED 355-360. MP TOP OF 2-IN CASING, 2.00 FT ABOVE LSD.  
 LSD 53.29 FT NGVD.  
 HIGHEST WATER LEVEL 61.15 BELOW LSD, MAR. 24, 1965,  
 LOWEST WATER LEVEL 78.29 BELOW LSD, JUNE 19, 1975.  
 RECORDS AVAILABLE 1964-77, 1979, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 73.97       |      |             |      |             |      |             |

300855093155502 LOCAL WELL NUMBER: CU-795

OWNER: MELVIN ROSFELD. (SEC. 34, T. 10S., R. 9W.) DRILLED IRRIGATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 20 TO 10 IN, REPORTED DEPTH 623 FT, SCREENED 543-623. MP LOWER LIP OF DISCHARGE PIPE, 6.50 FT ABOVE LSD.  
 LSD 15.43 FT NGVD.  
 HIGHEST WATER LEVEL 73.09 BELOW LSD, APR. 1, 1965,  
 LOWEST WATER LEVEL 117.17 BELOW LSD, FEB. 18, 1981.  
 RECORDS AVAILABLE 1965-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 117.17      |      |             |      |             |      |             |

301339093074701 LOCAL WELL NUMBER: CU-796

OWNER: U. S. GEOL. SURVEY. (SEC. 36, T. 9S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 490 FT, SCREENED 485-490. MP TOP OF 2-IN CASING, 2.50 FT ABOVE LSD.  
 LSD 10.76 FT NGVD.  
 HIGHEST WATER LEVEL 58.88 BELOW LSD, MAR. 20, 1967,  
 LOWEST WATER LEVEL 73.83 BELOW LSD, FEB. 18, 1981.  
 RECORDS AVAILABLE 1965-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 73.83       |      |             |      |             |      |             |



## GROUND-WATER LEVELS

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## CALCASIEU PARISH

300919093055601 LOCAL WELL NUMBER: CU-798

OWNER: E. O. DAUGHENRAUGH AND SON. (SEC. 29, T. 10S., R. 7W.) DRILLED IRRIGATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 20 TO 12 IN, REPORTED DEPTH 345 FT, SCREENED 265-345, MP LOWER EDGE OF THREADED PLUG, 2.00 FT ABOVE LSD.  
 LSD 25.43 FT NGVD.  
 HIGHEST WATER LEVEL 53.79 BELOW LSD, MAR. 20, 1967,  
 LOWEST WATER LEVEL 65.95 BELOW LSD, FEB. 19, 1971.  
 RECORDS AVAILABLE 1967-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 18, 1981 | 64.09          |      |                |      |                |      |                |

300812093165802 LOCAL WELL NUMBER: CU-811

OWNER: U. S. GEOL. SURVEY. (SEC. 3, T. 11S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 923 FT, SCREENED 912-923, MP TOP OF 2-IN CASING, 1.65 FT ABOVE LSD.  
 LSD 11.00 FT NGVD.  
 HIGHEST WATER LEVEL 90.44 BELOW LSD, MAR. 5, 1979,  
 LOWEST WATER LEVEL 99.85 BELOW LSD, SEP. 8, 1975.  
 RECORDS AVAILABLE 1974-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 91.02          |      |                |      |                |      |                |

301148093193201 LOCAL WELL NUMBER: CU-842

OWNER: LA. OFFICE PUBLIC WORKS. (SEC. 18, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 575 FT, SCREENED 572-575, MP TOP OF CASING, 1.75 FT BELOW LSD.  
 LSD 12.00 FT NGVD.  
 HIGHEST WATER LEVEL 141.67 BELOW LSD, FEB. 25, 1976,  
 LOWEST WATER LEVEL 160.98 BELOW LSD, SEP. 10, 1973.  
 RECORDS AVAILABLE 1972-CURRENT YEAR.

| DATE         | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|--------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 4, 1981 | 146.99         |      |                |      |                |      |                |

301148093193202 LOCAL WELL NUMBER: CU-843

OWNER: LA. OFFICE PUBLIC WORKS. (SEC. 18, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 205 FT, SCREENED 200-205, MP TOP OF CASING, 0.87 FT BELOW LSD.  
 LSD 12.00 FT NGVD.  
 HIGHEST WATER LEVEL 65.92 BELOW LSD, FEB. 25, 1976,  
 LOWEST WATER LEVEL 73.05 BELOW LSD, SEP. 10, 1974.  
 RECORDS AVAILABLE 1973-CURRENT YEAR.

| DATE         | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|--------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 3, 1981 | 68.62          |      |                |      |                |      |                |

301148093193203 LOCAL WELL NUMBER: CU-844

OWNER: LA. OFFICE PUBLIC WORKS. (SEC. 18, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 430 FT, SCREENED 425-430, MP TOP OF CASING, 0.68 BELOW LSD.  
 LSD 12.00 FT NGVD.  
 HIGHEST WATER LEVEL 139.58 BELOW LSD, MAR. 19, 1975,  
 LOWEST WATER LEVEL 162.39 BELOW LSD, AUG. 1, 1974.  
 RECORDS AVAILABLE 1973-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 145.99         |      |                |      |                |      |                |



301230093193202 LOCAL WELL NUMBER: CU-847

OWNER: LA. OFFICE PUBLIC WORKS. (SEC. 7, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 522 FT, SCREENED 517-522. MP TOP OF 2-IN CASING, 1.93 FT ABOVE LSD.  
 LSD 13.00 FT NGVD.  
 HIGHEST WATER LEVEL 122.88 BELOW LSD, JAN. 11, 1980,  
 LOWEST WATER LEVEL 140.65 BELOW LSD, JULY 25, 1974.  
 RECORDS AVAILABLE 1973-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 126.78      |      |             |      |             |      |             |

301043093201601 LOCAL WELL NUMBER: CU-848

OWNER: LA. OFFICE PUBLIC WORKS. (SEC. 24, T. 10S., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 542 FT, SCREENED 537-542. MP TOP OF 2-IN CASING, 1.00 FT ABOVE LSD.  
 LSD 15.00 FT NGVD.  
 HIGHEST WATER LEVEL 146.16 BELOW LSD, FEB. 28, 1975,  
 LOWEST WATER LEVEL 166.65 BELOW LSD, AUG. 1, 1974.  
 RECORDS AVAILABLE 1973-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|--------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 9, 1981 | 148.44      |      |             |      |             |      |             |

301205093182501 LOCAL WELL NUMBER: CU-849

OWNER: LA. OFFICE PUBLIC WORKS. (SEC. 8, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 564 FT, SCREENED 559-564. MP TOP OF 2-IN CASING, 1.42 FT ABOVE LSD.  
 LSD 10.00 FT NGVD.  
 HIGHEST WATER LEVEL 124.54 BELOW LSD, MAR. 12, 1976,  
 LOWEST WATER LEVEL 162.33 BELOW LSD, OCT. 17, 1973.  
 RECORDS AVAILABLE 1973-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 23, 1981 | 127.58      |      |             |      |             |      |             |

301200093191901 LOCAL WELL NUMBER: CU-850

OWNER: LA. OFFICE PUBLIC WORKS. (SEC. 7, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 548 FT, SCREENED 543-548. MP TOP OF 2-IN CASING, 1.25 FT ABOVE LSD.  
 LSD 10.00 FT NGVD.  
 HIGHEST WATER LEVEL 127.63 BELOW LSD, FEB. 8, 1980,  
 LOWEST WATER LEVEL 148.75 BELOW LSD, JULY 25, 1974.  
 RECORDS AVAILABLE 1973-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 10, 1981 | 131.83      |      |             |      |             |      |             |

301213093191701 LOCAL WELL NUMBER: CU-851

OWNER: LA. OFFICE PUBLIC WORKS. (SEC. 7, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 555 FT, SCREENED 550-555. MP TOP OF 2-IN CASING, 1.16 FT ABOVE LSD.  
 LSD 10.00 FT NGVD.  
 HIGHEST WATER LEVEL 121.97 BELOW LSD, MAR. 5, 1973,  
 LOWEST WATER LEVEL 145.67 BELOW LSD, JULY 25, 1974.  
 RECORDS AVAILABLE 1973-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 11, 1981 | 129.29      |      |             |      |             |      |             |

## GROUND-WATER LEVELS

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## CALCASIEU PARISH

301153093192101 LOCAL WELL NUMBER: CU-852

OWNER: LA. OFFICE PUBLIC WORKS. (SEC. 7, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 560 FT, SCREENED 555-560. MP TOP OF 2-IN CASING, 4.40 FT ABOVE LSD.  
 LSD 11.00 FT NGVD.  
 HIGHEST WATER LEVEL 104.11 BELOW LSD, MAR. 18, 1973.  
 LOWEST WATER LEVEL 154.60 BELOW LSD, JULY 25, 1974.  
 RECORDS AVAILABLE 1973-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 10, 1981 | 136.90      |      |             |      |             |      |             |

300643093044702 LOCAL WELL NUMBER: CU-854

OWNER: U. S. GEOL. SURVEY. (SEC. 3, T. 11S., R. 7W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 430 FT, SCREENED 420-430. MP TOP OF 2-IN CASING, 2.91 FT ABOVE LSD.  
 LSD 20.00 FT NGVD.  
 HIGHEST WATER LEVEL 52.42 BELOW LSD, MAR. 11, 1976.  
 LOWEST WATER LEVEL 77.47 BELOW LSD, JUNE 19, 1975.  
 RECORDS AVAILABLE 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 56.93       |      |             |      |             |      |             |

300643093044701 LOCAL WELL NUMBER: CU-947

OWNER: U. S. GEOL. SURVEY. (SEC. 3, T. 11S., R. 7W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 600 FT, SCREENED 595-600. MP TOP OF 2-IN CASING, 1.14 FT ABOVE LSD.  
 LSD 20.00 FT NGVD.  
 HIGHEST WATER LEVEL 64.54 BELOW LSD, MAR. 11, 1976.  
 LOWEST WATER LEVEL 75.84 BELOW LSD, SEP. 3, 1974.  
 RECORDS AVAILABLE 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 67.45       |      |             |      |             |      |             |

301944093170401 LOCAL WELL NUMBER: CU-958

OWNER: U. S. GEOL. SURVEY. (SEC. 35, T. 8S., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 707 FT, SCREENED 702-707. MP TOP OF 2-IN CASING, 3.00 FT ABOVE LSD.  
 LSD 20.00 FT NGVD.  
 HIGHEST WATER LEVEL 65.07 BELOW LSD, NOV. 28, 1979.  
 LOWEST WATER LEVEL 73.68 BELOW LSD, AUG. 1, 1974.  
 RECORDS AVAILABLE 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 65.92       |      |             |      |             |      |             |

301031093204901 LOCAL WELL NUMBER: CU-959

OWNER: U. S. GEOL. SURVEY. (SEC. 24, T. 10S., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 733 FT, SCREENED 727-733. MP TOP OF 2-IN CASING, 2.85 FT ABOVE LSD.  
 LSD 21.00 FT NGVD.  
 HIGHEST WATER LEVEL 111.51 BELOW LSD, JAN. 14, 1980.  
 LOWEST WATER LEVEL 128.70 BELOW LSD, AUG. 1, 1974.  
 RECORDS AVAILABLE 1974-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 114.11      |      |             |      |             |      |             |

301031093204902 LOCAL WELL NUMBER: CU-960

OWNER: U. S. GEOL. SURVEY. (SEC. 24, T. 10S., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 598 FT, SCREENED 592-598. MP TOP OF 2-IN CASING, 2.86 FT ABOVE LSD.  
 LSD 21.00 FT NGVD.  
 HIGHEST WATER LEVEL 117.93 BELOW LSD, APR. 16, 1975.  
 LOWEST WATER LEVEL 134.18 BELOW LSD, AUG. 1, 1974.  
 RECORDS AVAILABLE 1974-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 118.94      |      |             |      |             |      |             |

300812093165801 LOCAL WELL NUMBER: CU-962

OWNER: U. S. GEOL. SURVEY. (SEC. 3, T. 11S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 287 FT, SCREENED 281-287. MP TOP OF 2-IN CASING, 1.70 FT ABOVE LSD.  
 LSD 11.00 FT NGVD.  
 HIGHEST WATER LEVEL 52.97 BELOW LSD, MAR. 4, 1976.  
 LOWEST WATER LEVEL 55.24 BELOW LSD, FEB. 17, 1981.  
 RECORDS AVAILABLE 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 55.24       |      |             |      |             |      |             |

300718093220001 LOCAL WELL NUMBER: CU-963

OWNER: U. S. GEOL. SURVEY. (SEC. 11, T. 11S., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 399 FT, SCREENED 393-399. MP TOP OF 2-IN CASING, 1.60 FT ABOVE LSD.  
 LSD 10.00 FT NGVD.  
 HIGHEST WATER LEVEL 81.52 BELOW LSD, FEB. 26, 1980.  
 LOWEST WATER LEVEL 96.77 BELOW LSD, AUG. 1, 1974.  
 RECORDS AVAILABLE 1974-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 20, 1981 | 83.68       |      |             |      |             |      |             |

301339093253901 LOCAL WELL NUMBER: CU-964

OWNER: U. S. GEOL. SURVEY. (SEC. 31, T. 9S., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 360 FT, SCREENED 354-360. MP TOP OF 2-IN CASING, 1.30 FT ABOVE LSD.  
 LSD 16.00 FT NGVD.  
 HIGHEST WATER LEVEL 73.73 BELOW LSD, JAN. 23, 1976.  
 LOWEST WATER LEVEL 89.78 BELOW LSD, AUG. 19, 1975.  
 RECORDS AVAILABLE 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 19, 1981 | 76.49       |      |             |      |             |      |             |

301013093231201 LOCAL WELL NUMBER: CU-965

OWNER: U. S. GEOL. SURVEY. (SEC. 21, T. 10S., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 270 FT, SCREENED 264-270. MP TOP OF 2-IN CASING, AT LSD.  
 LSD 15.00 FT NGVD.  
 HIGHEST WATER LEVEL 59.95 BELOW LSD, AUG. 29, 1974.  
 LOWEST WATER LEVEL 74.74 BELOW LSD, JUNE 12, 1974.  
 RECORDS AVAILABLE 1974-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 20, 1981 | 66.03       |      |             |      |             |      |             |

## GROUND-WATER LEVELS

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## CALCASIEU PARISH

301350093045001 LOCAL WELL NUMBER: CU-966

OWNER: U. S. GEOL. SURVEY. (SEC. 33, T. 9S., R. 7W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 235 FT, SCREENED 229-235. MP TOP OF 2-IN CASING, 1.40 FT ABOVE LSD.  
 LSD 18.00 FT NGVD.  
 HIGHEST WATER LEVEL 51.01 BELOW LSD, MAR. 1, 1978.  
 LOWEST WATER LEVEL 71.45 BELOW LSD, JUNE 19, 1975.  
 RECORDS AVAILABLE 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 55.74       |      |             |      |             |      |             |

301147093141901 LOCAL WELL NUMBER: CU-967

OWNER: U. S. GEOL. SURVEY. (SEC. 12, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 240 FT, SCREENED 234-240. MP TOP OF 2-IN CASING, 1.37 FT ABOVE LSD.  
 LSD 12.00 FT NGVD.  
 HIGHEST WATER LEVEL 65.36 BELOW LSD, MAR. 8, 1977.  
 LOWEST WATER LEVEL 71.69 BELOW LSD, AUG. 29, 1974.  
 RECORDS AVAILABLE 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 19, 1981 | 68.15       |      |             |      |             |      |             |

300557093250401 LOCAL WELL NUMBER: CU-968

OWNER: U. S. GEOL. SURVEY. (SEC. 15, T. 11S., R. 11W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 276 FT, SCREENED 270-276. MP TOP OF 2-IN CASING, 1.30 FT ABOVE LSD.  
 LSD 10.00 FT NGVD.  
 HIGHEST WATER LEVEL 47.57 BELOW LSD, FEB. 22, 1980.  
 LOWEST WATER LEVEL 53.61 BELOW LSD, JUNE 18, 1975.  
 RECORDS AVAILABLE 1974-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 19, 1981 | 49.29       |      |             |      |             |      |             |

301117093021601 LOCAL WELL NUMBER: CU-969

OWNER: U. S. GEOL. SURVEY. (SEC. 12, T. 10S., R. 7W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 190 FT, SCREENED 184-190. MP TOP OF 2-IN CASING, 1.53 FT ABOVE LSD.  
 LSD 21.00 FT NGVD.  
 HIGHEST WATER LEVEL 52.33 BELOW LSD, FEB. 18, 1981.  
 LOWEST WATER LEVEL 84.33 BELOW LSD, JULY 19, 1974.  
 RECORDS AVAILABLE 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 52.33       |      |             |      |             |      |             |

300534092564401 LOCAL WELL NUMBER: CU-970

OWNER: U. S. GEOL. SURVEY. (SEC. 18, T. 11S., R. 5W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 780 FT, SCREENED 770-780. MP TOP OF 2-IN CASING, 1.90 FT ABOVE LSD.  
 LSD 5.00 FT NGVD.  
 HIGHEST WATER LEVEL 36.83 BELOW LSD, MAR. 1, 1979.  
 LOWEST WATER LEVEL 44.28 BELOW LSD, JULY 24, 1975.  
 RECORDS AVAILABLE 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| FEB. 19, 1981 | 42.23       | FEB. 24, 1981 | 42.14       |      |             |      |             |

300534092564402 LOCAL WELL NUMBER: CU-971

OWNER: U. S. GEOL. SURVEY. (SEC. 18, T. 11S., R. 5W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 500 FT, SCREENED 490-500, MP TOP OF 2-IN CASING, 1.70 FT ABOVE LSD.  
 LSD 5.00 FT NGVD.  
 HIGHEST WATER LEVEL 34.10 BELOW LSD, MAR. 2, 1978,  
 LOWEST WATER LEVEL 46.18 BELOW LSD, JULY 24, 1975.  
 RECORDS AVAILABLE 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 38.78       | FEB. 24, 1981 | 38.58       |      |             |      |             |

301941093035601 LOCAL WELL NUMBER: CU-972

OWNER: U. S. GEOL. SURVEY. (SEC. 27, T. 8S., R. 7W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 595 FT, SCREENED 585-595, MP TOP OF 2-IN CASING, 1.65 FT ABOVE LSD.  
 LSD 20.00 FT NGVD.  
 HIGHEST WATER LEVEL 45.60 BELOW LSD, FEB. 20, 1976, MAR. 9, 1977,  
 LOWEST WATER LEVEL 51.03 BELOW LSD, JUNE 25, 1975.  
 RECORDS AVAILABLE 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 48.02       |      |             |      |             |      |             |

301601093130601 LOCAL WELL NUMBER: CU-973

OWNER: U. S. GEOL. SURVEY. (SEC. 30, T. 9S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 661 FT, SCREENED 651-661, MP TOP OF 2-IN CASING, 4.22 FT ABOVE LSD.  
 LSD 5.00 FT NGVD.  
 HIGHEST WATER LEVEL 81.61 BELOW LSD, MAR. 18, 1977,  
 LOWEST WATER LEVEL 93.05 BELOW LSD, AUG. 18, 1975.  
 RECORDS AVAILABLE 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 85.86       |      |             |      |             |      |             |

301601093130602 LOCAL WELL NUMBER: CU-974

OWNER: U. S. GEOL. SURVEY. (SEC. 30, T. 9S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 466 FT, SCREENED 456-466, MP TOP OF 2-IN CASING, 4.00 FT ABOVE LSD.  
 LSD 5.00 FT NGVD.  
 HIGHEST WATER LEVEL 82.68 BELOW LSD, FEB. 20, 1976,  
 LOWEST WATER LEVEL 92.83 BELOW LSD, AUG. 18, 1975.  
 RECORDS AVAILABLE 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 85.60       |      |             |      |             |      |             |

301941093035602 LOCAL WELL NUMBER: CU-975

OWNER: U. S. GEOL. SURVEY. (SEC. 27, T. 8S., R. 7W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 237 FT, SCREENED 231-237, MP TOP OF 2-IN CASING, 1.80 FT ABOVE LSD.  
 LSD 20.00 FT NGVD.  
 HIGHEST WATER LEVEL 38.77 BELOW LSD, MAR. 3, 1978,  
 LOWEST WATER LEVEL 40.76 BELOW LSD, FEB. 18, 1981.  
 RECORDS AVAILABLE 1975-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 40.76       |      |             |      |             |      |             |



## CALCASIEU PARISH

301129093183001 LOCAL WELL NUMBER: CU-976

OWNER: U. S. GEOL. SURVEY. (SEC. 8, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 550 FT, SCREENED 545-550. MP TOP OF 2-IN CASING, 1.25 FT ABOVE LSD.

LSD 10.00 FT NGVD.

HIGHEST WATER LEVEL 117.99 BELOW LSD, MAR. 12, 1976.

LOWEST WATER LEVEL 129.07 BELOW LSD, JUN 13, 1977.

RECORDS AVAILABLE 1974-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 11, 1981 | 120.98      |      |             |      |             |      |             |

301944093170402 LOCAL WELL NUMBER: CU-977

OWNER: U. S. GEOL. SURVEY. (SEC. 35, T. 8S., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 515 FT, SCREENED 510-515. MP TOP OF 2-IN CASING, 2.45 FT ABOVE LSD.

LSD 20.00 FT NGVD.

HIGHEST WATER LEVEL 64.64 BELOW LSD, MAR. 4, 1976.

LOWEST WATER LEVEL 71.87 BELOW LSD, AUG. 19, 1975.

RECORDS AVAILABLE 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 65.14       |      |             |      |             |      |             |

301409093120301 LOCAL WELL NUMBER: CU-978

OWNER: LA. OFFICE PUBLIC WORKS. (SEC. 32, T. 9S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 645 FT, SCREENED 640-645. MP TOP OF 2-IN CASING, 2.75 FT ABOVE LSD.

LSD 15.00 FT NGVD.

HIGHEST WATER LEVEL 91.50 BELOW LSD, FEB. 20, 1976.

LOWEST WATER LEVEL 100.35 BELOW LSD, MAY 19, 1978.

RECORDS AVAILABLE 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 94.28       |      |             |      |             |      |             |

301005093110401 LOCAL WELL NUMBER: CU-979

OWNER: LA. OFFICE PUBLIC WORKS. (SEC. 28, T. 10S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 555 FT, SCREENED 550-555. MP TOP OF 2-IN CASING, 3.00 FT ABOVE LSD.

LSD 20.00 FT NGVD.

HIGHEST WATER LEVEL 86.79 BELOW LSD, MAR. 23, 1976.

LOWEST WATER LEVEL 102.61 BELOW LSD, JUNE 23, 1978.

RECORDS AVAILABLE 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 90.69       |      |             |      |             |      |             |

300813093403901 LOCAL WELL NUMBER: CU-981

OWNER: LA. TOURIST COMMISSION. (SEC. 3, T. 11S., R. 13W.) DRILLED RECREATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 6 IN, DEPTH 200 FT, SCREENED 180-200. MP VENT IN TOP OF SANITARY SEAL, 1.75 FT ABOVE LSD.

LSD 9.00 FT NGVD.

HIGHEST WATER LEVEL 12.17 BELOW LSD, MAR. 5, 1975.

LOWEST WATER LEVEL 14.35 BELOW LSD, MAR. 10, 1977.

RECORDS AVAILABLE 1975-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 21, 1981 | 13.72       |      |             |      |             |      |             |



301008093172001 LOCAL WELL NUMBER: CU-982

OWNER: MRS. R. G. STEWART. (SEC. 21, T. 10S., R. 9W.) DRILLED UNUSED ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, REPORTED DEPTH 500 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 4-IN CASING, 1.57 FT ABOVE LSD.  
 LSD 20.00 FT NGVD.  
 HIGHEST WATER LEVEL 113.53 BELOW LSD, FEB. 21, 1974.  
 LOWEST WATER LEVEL 114.75 BELOW LSD, FEB. 18, 1981.  
 RECORDS AVAILABLE 1974-75, 1977, 1979, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 18, 1981 | 114.75         |      |                |      |                |      |                |

301335093130101 LOCAL WELL NUMBER: CU-985

OWNER: CARL H. HANCHEY. (SEC. 6, T. 9S., R. 8W.) DRILLED UNUSED ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 400 FT, SCREENED 380-400, MP TOP OF COUPLING (MUST REMOVE PLUG TO MEASURE), 0.18 FT ABOVE LSD.  
 LSD 17.00 FT NGVD.  
 HIGHEST WATER LEVEL 101.39 BELOW LSD, MAR. 5, 1979.  
 LOWEST WATER LEVEL 115.32 BELOW LSD, JULY 19, 1978.  
 RECORDS AVAILABLE 1975-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 19, 1981 | 103.60         |      |                |      |                |      |                |

301059093125101 LOCAL WELL NUMBER: CU-988

OWNER: U. S. GEOL. SURVEY. (SEC. 19, T. 10S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 523 FT, SCREENED 518-523, MP TOP OF CASING, 0.21 FT BELOW LSD.  
 LSD 14.00 FT NGVD.  
 HIGHEST WATER LEVEL 93.94 BELOW LSD, APR. 16, 1980.  
 LOWEST WATER LEVEL 113.62 BELOW LSD, JULY 19, 1978.  
 RECORDS AVAILABLE 1976-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 98.55          |      |                |      |                |      |                |

301059093125102 LOCAL WELL NUMBER: CU-989

OWNER: U. S. GEOL. SURVEY. (SEC. 19, T. 10S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 335 FT, SCREENED 330-335, MP TOP OF CASING, 0.20 FT BELOW LSD.  
 LSD 14.00 FT NGVD.  
 HIGHEST WATER LEVEL 75.02 BELOW LSD, JAN. 24, 1977.  
 LOWEST WATER LEVEL 88.50 BELOW LSD, JULY 19, 1978.  
 RECORDS AVAILABLE 1976-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 80.37          |      |                |      |                |      |                |

301059093125103 LOCAL WELL NUMBER: CU-990

OWNER: U. S. GEOL. SURVEY. (SEC. 19, T. 10S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 183 FT, SCREENED 178-183, MP TOP OF CASING, 0.36 FT BELOW LSD.  
 LSD 14.00 FT NGVD.  
 HIGHEST WATER LEVEL 66.18 BELOW LSD, APR. 22, 1976.  
 LOWEST WATER LEVEL 73.83 BELOW LSD, AUG. 16, 1978.  
 RECORDS AVAILABLE 1976-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 69.78          |      |                |      |                |      |                |

## GROUND-WATER LEVELS

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## CALCASIEU PARISH

301436093335101 LOCAL WELL NUMBER: CU-991

OWNER: U. S. GEOL. SURVEY. (SEC. 30, T. 9S., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 315 FT, SCREENED 310-315. MP TOP OF 2-IN CASING, 1.80 FT ABOVE LSD.  
 LSD 20.00 FT NGVD.  
 HIGHEST WATER LEVEL 42.15 BELOW LSD, FEB. 21, 1980.  
 LOWEST WATER LEVEL 48.00 BELOW LSD, FEB. 12, 1976.  
 RECORDS AVAILABLE 1976-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 19, 1981 | 43.97          |      |                |      |                |      |                |

300634093400401 LOCAL WELL NUMBER: CU-994

OWNER: U. S. GEOL. SURVEY. (SEC. 14, T. 11S., R. 13W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 757 FT, SCREENED 752-757. MP TOP OF 2-IN CASING, 2.90 FT ABOVE LSD.  
 LSD 5.00 FT NGVD.  
 HIGHEST WATER LEVEL 51.96 BELOW LSD, FEB. 7, 1980.  
 LOWEST WATER LEVEL 53.84 BELOW LSD, FEB. 28, 1979.  
 RECORDS AVAILABLE 1976-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 19, 1981 | 52.58          |      |                |      |                |      |                |

301141093123501 LOCAL WELL NUMBER: CU-1020

OWNER: U. S. GEOL. SURVEY. (SEC. 17, T. 10S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 375 FT, SCREENED 367-375. MP TOP OF CASING, 1.90 FT ABOVE LSD.  
 LSD 18.00 FT NGVD.  
 HIGHEST WATER LEVEL 96.78 BELOW LSD, FEB. 27, 1980.  
 LOWEST WATER LEVEL 114.27 BELOW LSD, JULY 7, 1978.  
 RECORDS AVAILABLE 1978-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 100.72         |      |                |      |                |      |                |

301435093154601 LOCAL WELL NUMBER: CU-1021

OWNER: U. S. GEOL. SURVEY. (SEC. 26, T. 9S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 487 FT, SCREENED 477-487. MP TOP OF CASING, 1.75 FT ABOVE LSD.  
 LSD 12.00 FT NGVD.  
 HIGHEST WATER LEVEL 118.55 BELOW LSD, JAN. 11, 1980.  
 LOWEST WATER LEVEL 133.57 BELOW LSD, JULY 19, 1978.  
 RECORDS AVAILABLE 1978-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 121.64         |      |                |      |                |      |                |

301444093162901 LOCAL WELL NUMBER: CU-1022

OWNER: U. S. GEOL. SURVEY. (SEC. 27, T. 9S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 618 FT, SCREENED 608-618. MP TOP OF CASING, 1.00 FT ABOVE LSD.  
 LSD 11.00 FT NGVD.  
 HIGHEST WATER LEVEL 121.74 BELOW LSD, JAN. 14, 1980.  
 LOWEST WATER LEVEL 137.32 BELOW LSD, AUG. 16, 1978.  
 RECORDS AVAILABLE 1978-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 17, 1981 | 124.00         |      |                |      |                |      |                |

301404093170507 LOCAL WELL NUMBER: CU-1040

OWNER: U. S. GEOL. SURVEY. (SEC. 33, T. 9S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLISTOCENE AGE, DIAM 2 IN, DEPTH 352 FT, SCREENED 342-352, MP TOP OF 2-IN PIPE, 1.50 FT ABOVE LSD.  
 LSD 19.10 FT NGVD.  
 HIGHEST WATER LEVEL 146.03 BELOW LSD, FEB. 17, 1981.  
 LOWEST WATER LEVEL 146.29 BELOW LSD, FEB. 23, 1981.  
 RECORDS AVAILABLE 1979, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| FEB. 17, 1981 | 146.03      | FEB. 23, 1981 | 146.29      |      |             |      |             |

300702093165801 LOCAL WELL NUMBER: CU-1041

OWNER: U. S. GEOL. SURVEY. (SEC. 9, T. 11S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 560 FT, SCREENED 550-560, MP TOP OF 2-IN PIPE, 1.20 FT ABOVE LSD.  
 LSD 9.00 FT NGVD.  
 HIGHEST WATER LEVEL 86.13 BELOW LSD, NOV. 29, 1979.  
 LOWEST WATER LEVEL 88.51 BELOW LSD, OCT. 31, 1979.  
 RECORDS AVAILABLE 1979, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 12, 1981 | 86.84       |      |             |      |             |      |             |

301711093190402 LOCAL WELL NUMBER: CU-1046

OWNER: U. S. GEOL. SURVEY. (SEC. 7, T. 9S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 688 FT, SCREENED 678-688, MP TOP OF CASING, AT LSD.  
 LSD 17.00 FT NGVD.  
 HIGHEST WATER LEVEL 89.00 BELOW LSD, JAN. 16, 1980.  
 LOWEST WATER LEVEL 90.38 BELOW LSD, FEB. 4, 1981.  
 RECORDS AVAILABLE 1980-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|--------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 4, 1981 | 90.38       |      |             |      |             |      |             |

301711093190401 LOCAL WELL NUMBER: CU-1047

OWNER: U. S. GEOL. SURVEY. (SEC. 7, T. 9S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 187 FT, SCREENED 182-187, MP TOP OF 2-IN PIPE, 1.50 FT ABOVE LSD.  
 LSD 17.00 FT NGVD.  
 HIGHEST WATER LEVEL 32.96 BELOW LSD, JAN. 16, 1980.  
 LOWEST WATER LEVEL 38.76 BELOW LSD, FEB. 19, 1981.  
 RECORDS AVAILABLE 1980-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 19, 1981 | 38.76       |      |             |      |             |      |             |

301410093193301 LOCAL WELL NUMBER: CU-1048

OWNER: U. S. GEOL. SURVEY. (SEC. 31, T. 9S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 705 FT, SCREENED 695-705, MP EDGE OF METER BOX, 0.50 FT BELOW LSD.  
 LSD 12.50 FT NGVD.  
 HIGHEST WATER LEVEL 111.68 BELOW LSD, DEC. 19, 1979.  
 LOWEST WATER LEVEL 118.64 BELOW LSD, AUG. 5, 1980.  
 RECORDS AVAILABLE 1979-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|--------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 4, 1981 | 113.07      |      |             |      |             |      |             |

GROUND-WATER LEVELS  
EAST BATON ROUGE PARISH

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302745091092401 LOCAL WELL NUMBER: EB-90

OWNER: BATON ROUGE WATER WORKS. (SEC. 77, T. 7S., R. 1F.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 8 TO 6 TO 4 IN, REPORTED DEPTH 2,120 FT, SCREENED 2,025-2,120. MP TOP OF COLLAR, 1.90 FT ABOVE LSD.  
LSD 59.05 FT NGVD.  
HIGHEST WATER LEVEL 12.70 ABOVE LSD, FEB. 23, 1943.  
LOWEST WATER LEVEL 292.54 BELOW LSD, AUG. 31, 1973.  
RECORDS AVAILABLE 1943-45, 1947-55, 1958-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE        | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 272.74      | FEB. 24, 1981 | 273.89      | MAY 5, 1981 | 262.93      | JULY 23, 1981 | 267.40      |
| DEC. 10       | 267.04      | APR. 2        | 274.87      | JUNE 15     | 259.84      | AUG. 26       | 259.82      |
| JAN. 20, 1981 | 266.12      |               |             |             |             |               |             |

302657091101201 LOCAL WELL NUMBER: FR-112

OWNER: KFAH'S LAUNDRY. (SEC. 48, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 8 TO 6 TO 4 IN, REPORTED DEPTH 2,254 FT, SCREENED 2,173-2,254. MP TOP OF 1/2-IN RUSHING, AT LSD.  
LSD 57.00 FT NGVD.  
HIGHEST WATER LEVEL 74.00 ABOVE LSD, JAN. 2, 1930.  
LOWEST WATER LEVEL 301.20 BELOW LSD, JULY 26, 1973.  
RECORDS AVAILABLE 1930, 1940, 1943, 1959-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 281.00      | JAN. 20, 1981 | 271.00      | APR. 2, 1981 | 282.60      | JULY 23, 1981 | 278.44      |

302604091095801 LOCAL WELL NUMBER: EB-123

OWNER: BATON ROUGE RECREATION AND PARK COMMISSION. (SEC. 53, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 12 TO 8 IN, DEPTH 710 FT, SCREENED 630-710. MP TOP OF RECORDER SHELTER FLOOR, 0.81 FT ABOVE LSD.  
LSD 51.13 FT NGVD.  
HIGHEST WATER LEVEL 50.70 BELOW LSD, APR. 1, 1935.  
LOWEST WATER LEVEL 143.70 BELOW LSD, SEP. 4, 1940.  
RECORDS AVAILABLE 1935, 1939-40, 1947-49, 1956-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 87.56       | JAN. 26, 1981 | 79.29       | APR. 2, 1981 | 74.33       | JULY 23, 1981 | 76.88       |

302617091103602 LOCAL WELL NUMBER: FR-127

OWNER: BROWN-EAGLE ICE CO. (SEC. 49, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("SHALLOW PLEISTOCENE" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 10 TO 8 IN, DEPTH 330 FT, SCREENED 229-330. MP TOP OF RECORDER BASE, 1.73 FT BELOW LSD.  
LSD 49.56 FT NGVD.  
HIGHEST WATER LEVEL 14.66 BELOW LSD, APR. 27, 1979.  
LOWEST WATER LEVEL 53.13 BELOW LSD, OCT. 26, 1956.  
RECORDS AVAILABLE 1956-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 47.88       | JAN. 20, 1981 | 45.00       | APR. 2, 1981 | 46.78       | JULY 23, 1981 | 38.83       |

302648091102301 LOCAL WELL NUMBER: EB-128

OWNER: DIVINCENTI BROS., INC. (SEC. 74, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("800-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 6 TO 4 IN, DEPTH 970 FT, SCREENED 840-883, 916-970. MP TOP OF 6-IN CASING, AT LSD.  
LSD 57.02 FT NGVD.  
HIGHEST WATER LEVEL 67.90 BELOW LSD, MAR. 15, 1946, MAR. 25, 1946.  
LOWEST WATER LEVEL 128.42 BELOW LSD, SEP. 9, 1956.  
RECORDS AVAILABLE 1940-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 96.92       | JAN. 20, 1981 | 89.34       | APR. 2, 1981 | 83.88       | JULY 23, 1981 | 86.80       |

## LOUISIANA - EAST BATON ROUGE PARISH

302653091095701 LOCAL WELL NUMBER: ER-146

OWNER: BATON ROUGE DEPT. PUBLIC WORKS. (SEC. 73, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 6 TO 4 IN, REPORTED DEPTH 1,259 FT, SCREENED 1,199-1,259, MP EDGE OF 1/4-IN HOLE IN PLATE ATOP CASING, 0.45 FT BELOW LSD.

LSD 52.00 FT NGVD.

HIGHEST WATER LEVEL 33.00 ABOVE LSD, MAR. 25, 1916.

LOWEST WATER LEVEL 118.15 BELOW LSD, JULY 12, 1979.

RECORDS AVAILABLE 1916, 1963-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 115.80      | JAN. 20, 1981 | 113.00      | APR. 2, 1981 | 113.90      | JULY 23, 1981 | 116.49      |

302930091101501 LOCAL WELL NUMBER: EB-155

OWNER: EXXON CO., U.S.A. (SEC. 43, T. 6S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 18 TO 12 IN, REPORTED DEPTH 412 FT, SCREENED 311-412, MP TOP OF CASING COVER, 0.85 FT ABOVE LSD.

LSD 60.14 FT NGVD.

HIGHEST WATER LEVEL 69.24 BELOW LSD, JUNE 5, 1981.

LOWEST WATER LEVEL 185.30 BELOW LSD, OCT. 15, 1968.

RECORDS AVAILABLE 1963-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|--------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 2, 1980 | 106.91H     | DEC. 31, 1980 | 93.21       | MAR. 31, 1981 | 70.19       | JUNE 30, 1981 | 78.57       |
| OCT. 5       | 106.62      | JAN. 5, 1981  | 90.46       | APR. 2        | 69.47H      | JULY 5        | 75.41       |
| OCT. 10      | 108.20      | JAN. 10       | 91.55       | APR. 5        | 70.94       | JULY 10       | 72.83       |
| OCT. 15      | 109.30      | JAN. 15       | 91.85       | APR. 10       | 69.96       | JULY 15       | 72.86       |
| OCT. 20      | 107.21      | JAN. 20       | 90.08H      | APR. 15       | 72.56       | JULY 20       | 77.58       |
| OCT. 25      | 106.37      | JAN. 25       | 83.70       | APR. 20       | 70.12       | JULY 23       | 76.98H      |
| OCT. 27      | 106.45H     | JAN. 31       | 81.11       | APR. 25       | 71.70       | JULY 25       | 77.86       |
| OCT. 31      | 107.07      | FEB. 5        | 80.19       | APR. 30       | 73.08       | JULY 31       | 80.18       |
| NOV. 5       | 108.83      | FEB. 10       | 79.75       | MAY 5         | 73.00H      | AUG. 5        | 81.10       |
| NOV. 10      | 108.83      | FEB. 15       | 86.55       | MAY 10        | 72.93       | AUG. 10       | 86.60       |
| NOV. 15      | 109.72      | FEB. 20       | 88.48       | MAY 15        | 72.63       | AUG. 26       | 102.59H     |
| NOV. 20      | 103.30      | FEB. 24       | 92.09H      | MAY 20        | 74.30       | AUG. 31       | 100.53      |
| NOV. 25      | 103.89      | FEB. 25       | 92.96       | MAY 25        | 69.99       | SEP. 5        | 104.66      |
| NOV. 30      | 102.61      | FEB. 28       | 91.26       | MAY 31        | 72.19       | SEP. 10       | 108.55      |
| DEC. 5       | 106.04      | MAR. 5        | 80.68       | JUNE 5        | 69.24J      | SEP. 15       | 107.16      |
| DEC. 10      | 100.56H     | MAR. 10       | 75.50       | JUNE 10       | 74.31       | SEP. 20       | 109.37      |
| DEC. 15      | 99.38       | MAR. 15       | 72.53       | JUNE 15       | 77.92H      | SEP. 25       | 112.55      |
| DEC. 20      | 96.41       | MAR. 20       | 70.84       | JUNE 20       | 75.52       | SEP. 30       | 114.08      |
| DEC. 25      | 93.58       | MAR. 25       | 69.76       | JUNE 25       | 75.58       |               |             |

303001091093801 LOCAL WELL NUMBER: EB-168

OWNER: BATON ROUGE WATER WORKS. (SEC. 38, T. 6S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 8 TO 6 IN, REPORTED DEPTH 1,496 FT, SCREENED 1,416-1,496, MP TOP EDGE OF 1 1/2-IN COLLAR ON PLATE ATOP CASING, 1.95 FT ABOVE LSD.

LSD 56.00 FT NGVD.

HIGHEST WATER LEVEL 14.00 ABOVE LSD, MAR. 1, 1943.

LOWEST WATER LEVEL 147.27 BELOW LSD, MAY 14, 1979.

RECORDS AVAILABLE 1943, 1948, 1967-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE        | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 125.63      | FEB. 24, 1981 | 133.95      | MAY 5, 1981 | 132.51      | JULY 22, 1981 | 140.78      |
| DEC. 10       | 126.65      | APR. 2        | 136.70      | JUNE 15     | 124.58      | AUG. 26       | 133.41      |
| JAN. 20, 1981 | 125.96      |               |             |             |             |               |             |

303358091094401 LOCAL WELL NUMBER: EB-172

OWNER: BATON ROUGE RECREATION AND PARK COMMISSION. (SEC. 54, T. 5S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 239 FT, SCREENED 218-239, MP TOP OF CASING, 0.50 FT ABOVE LSD.

LSD 66.00 FT NGVD.

HIGHEST WATER LEVEL 40.94 BELOW LSD, MAY 15, 1979.

LOWEST WATER LEVEL 62.90 BELOW LSD, NOV. 15, 1968.

RECORDS AVAILABLE 1942, 1948-50, 1959-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 31, 1980 | 51.72       | JAN. 21, 1981 | 51.81       | APR. 1, 1981 | 48.42       | JULY 22, 1981 | 45.25       |

See footnotes at end of table.



GROUND-WATER LEVELS  
EAST BATON ROUGE PARISH

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302427091103901 LOCAL WELL NUMBER: EB-241

OWNER: LOUISIANA STATE UNIVERSITY. (SEC. 67, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 8 TO 4 IN, REPORTED DEPTH 933 FT, SCREENED INTERVAL UNKNOWN, MP TOP INSIDE EDGE OF MANHOLE FLANGE, 0.06 FT ABOVE LSD.  
LSD 37.00 FT NGVD.  
HIGHEST WATER LEVEL 31.60 ABOVE LSD, NOV. 1, 1932.  
LOWEST WATER LEVEL 41.54 BELOW LSD, APR. 3, 1981.  
RECORDS AVAILABLE 1932, 1963-67, 1969-70, 1972-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|--------------|-------------|------|-------------|------|-------------|
| OCT. 28, 1980 | 41.20       | APR. 3, 1981 | 41.54       |      |             |      |             |

303026091113001 LOCAL WELL NUMBER: EB-297

OWNER: LA. OFFICE OF HIGHWAYS. (SEC. 37, T. 6S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 IN, DEPTH 1,940 FT, SCREENED 1,890-1,940, MP TOP OF 4-IN NIPPLE ATOP 4-IN CROSS, 2.20 FT ABOVE LSD.  
LSD 61.00 FT NGVD.  
HIGHEST WATER LEVEL 200.22 BELOW LSD, NOV. 7, 1967.  
LOWEST WATER LEVEL 336.23 BELOW LSD, AUG. 31, 1973.  
RECORDS AVAILABLE 1966-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE        | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 310.83      | FEB. 24, 1981 | 308.48      | MAY 5, 1981 | 291.85      | JULY 22, 1981 | 296.80      |
| DEC. 10       | 305.97      | APR. 2        | 310.03      | JUNE 15     | 288.57      | AUG. 26       | 287.02      |
| JAN. 20, 1981 | 297.18      |               |             |             |             |               |             |

302638091090801 LOCAL WELL NUMBER: EB-298

OWNER: DR. GERALD JOSEPH. (SEC. 81, T. 7S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 2 1/2 IN, DEPTH 1,387 FT, SCREENED 1,347-1,387, MP TOP INSIDE EDGE OF 1-IN COLLAR, 0.66 FT BELOW LSD.  
LSD 48.33 FT NGVD.  
HIGHEST WATER LEVEL 37.70 ABOVE LSD, JULY 11, 1918.  
LOWEST WATER LEVEL 116.97 BELOW LSD, MAY 7, 1981.  
RECORDS AVAILABLE 1918, 1958-68, 1970, 1972, 1974, 1976, CURRENT YEAR.

| DATE        | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|-------------|-------------|------|-------------|------|-------------|------|-------------|
| MAY 7, 1981 | 116.97      |      |             |      |             |      |             |

302549091073101 LOCAL WELL NUMBER: EB-301

OWNER: P. C. WITTER. (IRREG. SEC. 91, T. 7S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 1,281 FT, SCREENED 1,217-1,281, MP TOP OF 2 1/2-IN COLLAR ABOVE PLATE ON 4-IN TEE, 1.30 FT ABOVE LSD.  
LSD 53.45 FT NGVD.  
HIGHEST WATER LEVEL 35.00 ABOVE LSD, AUG. 19, 1926.  
LOWEST WATER LEVEL 106.30 BELOW LSD, JULY 13, 1979.  
RECORDS AVAILABLE 1926, 1943-44, 1946-49, 1953-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 105.10      | JAN. 23, 1981 | 100.68      | APR. 3, 1981 | 102.57      | JULY 24, 1981 | 106.20      |

303440090592702 LOCAL WELL NUMBER: EB-304

OWNER: GREENWELL SPRINGS HOSPITAL. (SEC. 49, T. 5S., R. 2E.) DRILLED INSTITUTIONAL ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 6 IN, DEPTH 1,725 FT, SCREENED 1,685-1,725, MP LOWER EDGE OF COLLAR ON 3/4-IN NIPPLE ON SIDE OF CASING, 1.45 FT ABOVE LSD.  
LSD 67.00 FT NGVD.  
HIGHEST WATER LEVEL 81.00 ABOVE LSD, DEC. 19, 1941.  
LOWEST WATER LEVEL 64.85 BELOW LSD, NOV. 6, 1979.  
RECORDS AVAILABLE 1941, 1943-46, 1949-51, 1954-70, 1976-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 30, 1980 | 60.04       | JAN. 27, 1981 | 63.95       | MAR. 31, 1981 | 63.75       | JULY 21, 1981 | 63.08       |



303441091074201 LOCAL WELL NUMBER: EB-322

OWNER: JOSEPH ROY BADFAUX. (SEC. 29, T. 5S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 1/2 TO 2 IN, DEPTH 1,971 FT, SCREENED 1,931-1,971. MP TOP EDGE OF 2 1/2-IN CASING, 0.25 FT ABOVE LSD.

LSD 68.00 FT NGVD.

HIGHEST WATER LEVEL 67.00 ABOVE LSD, DEC. 6, 1942.

LOWEST WATER LEVEL 80.34 BELOW LSD, OCT. 31, 1980.

RECORDS AVAILABLE 1942-51, 1959, 1973-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 31, 1980 | 80.34       | JAN. 21, 1981 | 78.99       | APR. 1, 1981 | 78.83       | JULY 22, 1981 | 78.24       |

302820091072401 LOCAL WELL NUMBER: EB-327

OWNER: SPEDALE ESTATE. (SEC. 73, T. 7S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 2 IN, REPORTED DEPTH 1,236 FT, SCREENED 1,186-1,236. MP TOP OF 2-IN CASING EXTENSION, 1.40 FT ABOVE LSD.

LSD 55.00 FT NGVD.

HIGHEST WATER LEVEL 100.10 BELOW LSD, FEB. 7, 1974.

LOWEST WATER LEVEL 119.58 BELOW LSD, JULY 16, 1979.

RECORDS AVAILABLE 1972-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 28, 1980 | 117.06      | JAN. 20, 1981 | 115.30      | APR. 1, 1981 | 116.15      | JULY 23, 1981 | 119.20      |

302930091111301 LOCAL WELL NUMBER: EB-367

OWNER: GULF STATES UTILITIES CO. (SEC. 43, T. 6S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 12 TO 8 IN, REPORTED DEPTH 2,061 FT, SCREENED 1,961-2,061. MP ARROW ON PLATE ABOVE CASING, 0.40 FT ABOVE LSD.

LSD 64.40 FT NGVD.

HIGHEST WATER LEVEL 5.00 BELOW LSD, JUNE 16, 1942.

LOWEST WATER LEVEL 372.20 BELOW LSD, AUG. 17, 1973.

RECORDS AVAILABLE 1942, 1964-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE         | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|--------------|-------------|--------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 2, 1980 | 336.68H     | JAN. 5, 1981 | 318.21      | APR. 5, 1981 | 341.14      | JULY 10, 1981 | 319.20      |
| OCT. 5       | 339.81      | JAN. 10      | 321.65      | APR. 10      | 334.51      | JULY 15       | 322.96      |
| OCT. 10      | 344.43      | JAN. 15      | 321.66      | APR. 15      | 334.69      | JULY 20       | 318.92      |
| OCT. 15      | 342.42      | JAN. 20      | 320.55H     | APR. 20      | 331.63      | JULY 22       | 322.72H     |
| OCT. 20      | 342.45      | JAN. 25      | 318.73      | APR. 25      | 327.26      | JULY 25       | 322.15      |
| OCT. 25      | 339.66      | JAN. 31      | 318.59      | APR. 30      | 316.77      | JULY 31       | 322.31      |
| OCT. 27      | 337.83H     | FEB. 5       | 320.13      | MAY 5        | 313.92H     | AUG. 5        | 321.44      |
| OCT. 31      | 331.18      | FEB. 10      | 330.95      | MAY 10       | 311.58      | AUG. 10       | 320.47      |
| NOV. 5       | 330.41      | FEB. 15      | 339.56      | MAY 15       | 309.39      | AUG. 15       | 313.74      |
| NOV. 10      | 332.78      | FEB. 20      | 333.48      | MAY 20       | 309.81      | AUG. 20       | 308.93      |
| NOV. 15      | 333.84      | FEB. 24      | 338.48H     | MAY 25       | 310.03      | AUG. 25       | 311.11      |
| NOV. 20      | 331.67      | FEB. 25      | 335.55      | MAY 31       | 310.45      | AUG. 26       | 311.69H     |
| NOV. 25      | 331.02      | FEB. 28      | 338.49      | JUNE 5       | 311.57      | AUG. 31       | 311.09      |
| NOV. 30      | 327.51      | MAR. 5       | 337.94      | JUNE 10      | 315.47      | SEP. 5        | 308.02      |
| DEC. 5       | 331.42      | MAR. 10      | 342.89      | JUNE 15      | 311.73H     | SEP. 10       | 306.58      |
| DEC. 10      | 331.41H     | MAR. 15      | 339.35      | JUNE 20      | 312.23      | SEP. 15       | 307.41      |
| DEC. 15      | 327.63      | MAR. 20      | 338.82      | JUNE 25      | 309.91      | SEP. 20       | 305.91      |
| DEC. 20      | 329.27      | MAR. 25      | 338.62      | JUNE 30      | 310.69      | SEP. 25       | 309.88      |
| DEC. 25      | 329.28      | MAR. 31      | 340.65      | JULY 5       | 312.85      | SEP. 30       | 307.19      |
| DEC. 31      | 329.13      | APR. 2       | 339.90H     |              |             |               |             |

302619091104003 LOCAL WELL NUMBER: EB-434

OWNER: LA. OFFICE OF HIGHWAYS. (SEC. 49, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLISTOCENE AGE, DIAM 8 TO 6 IN, REPORTED DEPTH 611 FT, SCREENED 551-611. MP 1/4-IN HOLE IN TOP 8-IN PLUG, 1.40 FT ABOVE LSD.

LSD 45.44 FT NGVD.

HIGHEST WATER LEVEL 58.25 BELOW LSD, MAY 5, 1980.

LOWEST WATER LEVEL 125.57 BELOW LSD, OCT. 22, 1968.

RECORDS AVAILABLE 1961-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 83.86       | JAN. 20, 1981 | 73.86       | APR. 2, 1981 | 68.54       | JULY 23, 1981 | 72.74       |
| NOV. 3        | 83.79       |               |             |              |             |               |             |

See footnotes at end of table.

GROUND-WATER LEVELS  
EAST BATON ROUGE PARISH

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303238091085701 LOCAL WELL NUMBER: EB-461

OWNER: J. L. GRANBERRY. (SEC. 97, T. 6S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 4 IN, REPORTED DEPTH 330 FT, SCREENED 310-330. MP TOP EDGE OF OPENING IN 4 X 2-IN REDUCER, 0.75 FT ABOVE LSD.  
LSD 65.00 FT NGVD.  
HIGHEST WATER LEVEL 55.33 BELOW LSD, MAY 15, 1979.  
LOWEST WATER LEVEL 84.75 BELOW LSD, NOV. 15, 1968.  
RECORDS AVAILABLE 1947-48, 1959-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE         | WATER<br>LEVEL | DATE          | WATER<br>LEVEL |
|---------------|----------------|---------------|----------------|--------------|----------------|---------------|----------------|
| OCT. 31, 1980 | 65.34          | JAN. 21, 1981 | 63.35          | APR. 1, 1981 | 58.62          | JULY 22, 1981 | 55.91          |

303408091075001 LOCAL WELL NUMBER: EB-468

OWNER: A. M. HOLDEN. (SEC. 53, T. 5S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 IN, DEPTH 2,407 FT, SCREENED 2,319-2,407. MP TOP EDGE OF 3/4-IN HOLE IN SANITARY SEAL, 0.43 FT ABOVE LSD.  
LSD 73.00 FT NGVD.  
HIGHEST WATER LEVEL 71.60 ABOVE LSD, FEB. 27, 1948.  
LOWEST WATER LEVEL 67.00 BELOW LSD, OCT. 31, 1980.  
RECORDS AVAILABLE 1948-51, 1953-67, 1969-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE         | WATER<br>LEVEL | DATE          | WATER<br>LEVEL |
|---------------|----------------|---------------|----------------|--------------|----------------|---------------|----------------|
| OCT. 31, 1980 | 67.00          | JAN. 21, 1981 | 65.27          | APR. 1, 1981 | 64.87          | JULY 22, 1981 | 63.27          |

302654091101101 LOCAL WELL NUMBER: EB-500

OWNER: RED STICK LINEN SERVICE. (SEC. 46, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 6 IN, ESTIMATED DEPTH 710 FT, SCREENED 663-710. MP TOP OF 2-IN NIPPLE IN STEEL LINER, 2.54 FT ABOVE LSD.  
LSD 57.00 FT NGVD.  
HIGHEST WATER LEVEL 81.63 BELOW LSD, APR. 2, 1981.  
LOWEST WATER LEVEL 145.67 BELOW LSD, OCT. 16, 1948.  
RECORDS AVAILABLE 1948, 1962, 1969-CURRENT YEAR.

| DATE         | WATER<br>LEVEL | DATE         | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|--------------|----------------|--------------|----------------|------|----------------|------|----------------|
| NOV. 5, 1980 | 99.61          | APR. 2, 1981 | 81.63          |      |                |      |                |

303115091113701 LOCAL WELL NUMBER: EB-517C

OWNER: SOUTHERN UNIVERSITY. (SEC. 50, T. 6S., R. 1W.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 12 TO 8 IN, DEPTH 2,590 FT, SCREENED 2,510-2,590. MP TOP OF 1/2-IN HOLE IN SANITARY SEAL, 1.48 FT ABOVE LSD.  
LSD 67.00 FT NGVD.  
HIGHEST WATER LEVEL 64.70 ABOVE LSD, AUG. 21, 1953.  
LOWEST WATER LEVEL 59.39 BELOW LSD, OCT. 31, 1980.  
RECORDS AVAILABLE 1953-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE         | WATER<br>LEVEL | DATE          | WATER<br>LEVEL |
|---------------|----------------|---------------|----------------|--------------|----------------|---------------|----------------|
| OCT. 31, 1980 | 59.39          | JAN. 21, 1981 | 58.02          | APR. 1, 1981 | 55.94          | JULY 22, 1981 | 56.74          |

302149091101401 LOCAL WELL NUMBER: EB-575

OWNER: LOUISIANA STATE UNIVERSITY. (SEC. 68, T. 8S., R. 1W.) DRILLED IRRIGATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 12 TO 10 TO 6 IN, DEPTH 2,500 FT, SCREENED 2,440-2,500. MP CENTERLINE OF DISCHARGE PIPE, 3.40 FT ABOVE LSD.  
LSD 20.00 FT NGVD.  
HIGHEST WATER LEVEL 70.00 ABOVE LSD, MAY 1, 1955.  
LOWEST WATER LEVEL 7.19 ABOVE LSD, NOV. 8, 1979.  
RECORDS AVAILABLE 1955-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE         | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|--------------|----------------|------|----------------|------|----------------|
| OCT. 28, 1980 | 8.00           | APR. 3, 1981 | 8.10           |      |                |      |                |

See footnotes at end of table.

## LOUISIANA - EAST BATON ROUGE PARISH

303904091093102 LOCAL WELL NUMBER: ER-578R

OWNER: CITY OF ZACHARY. (SEC. 81, T. 4S., R. 1W.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 10 TO 6 TO 4 1/2 IN, DEPTH 2,132 FT, SCREENED 2,052-2,132. MP TOP INSIDE EDGE OF VALVE, 1.77 FT ABOVE LSD.  
 LSD 103.00 FT NGVD.  
 HIGHEST WATER LEVEL 9.00 ABOVE LSD, OCT. 17, 1957,  
 LOWEST WATER LEVEL 91.98 BELOW LSD, OCT. 29, 1980.  
 RECORDS AVAILABLE 1957, 1960, 1969-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 29, 1980 | 91.98       | JAN. 19, 1981 | 91.71       | MAR. 30, 1981 | 90.75       | JULY 20, 1981 | 90.93       |

303440090592703 LOCAL WELL NUMBER: EB-581

OWNER: GREENWELL SPRINGS HOSPITAL. (SEC. 49, T. 5S., R. 2E.) DRILLED INSTITUTIONAL ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 8 TO 6 IN, DEPTH 2,590 FT, SCREENED 2,540-2,590. MP TOP OF 1-IN PIPE ON SIDE OF 8-IN CASING, 1.90 FT ABOVE LSD.  
 LSD 67.00 FT NGVD.  
 HIGHEST WATER LEVEL 54.40 ABOVE LSD, MAY 25, 1956,  
 LOWEST WATER LEVEL 45.79 BELOW LSD, JAN. 27, 1981.  
 RECORDS AVAILABLE 1956-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 30, 1980 | 43.84       | JAN. 27, 1981 | 45.79       | MAR. 31, 1981 | 39.89       | JULY 21, 1981 | 44.64       |

304141090585301 LOCAL WELL NUMBER: EB-647

OWNER: EAST BATON ROUGE PARISH SCHOOL BOARD. (SEC. 14, T. 4S., R. 2E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 6 TO 4 IN, DEPTH 1,950 FT, SCREENED 1,910-1,950. MP BOTTOM EDGE OF 3/4-IN COLLAR WELDED ON SIDE CASING, 1.28 FT ABOVE LSD.  
 LSD 107.00 FT NGVD.  
 HIGHEST WATER LEVEL 15.20 ABOVE LSD, JAN. 7, 1958,  
 LOWEST WATER LEVEL 81.08 BELOW LSD, OCT. 30, 1980.  
 RECORDS AVAILABLE 1958-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| OCT. 30, 1980 | 81.08       | MAR. 31, 1981 | 79.20       |      |             |      |             |

303154091083901 LOCAL WELL NUMBER: EB-652

OWNER: GREATER BATON ROUGE AIRPORT DISTRICT. (SEC. 90, T. 6S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN, DEPTH 1,345 FT, SCREENED 1,264-1,345. MP BREATHER-PIPE HOLE IN SANITARY SEAL, 0.43 FT ABOVE LSD.  
 LSD 68.00 FT NGVD.  
 HIGHEST WATER LEVEL 45.42 BELOW LSD, APR. 29, 1958,  
 LOWEST WATER LEVEL 137.31 BELOW LSD, JULY 22, 1981.  
 RECORDS AVAILABLE 1958-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 31, 1980 | 129.67      | JAN. 21, 1981 | 126.27      | APR. 1, 1981 | 134.65      | JULY 22, 1981 | 137.31      |

303350091100901 LOCAL WELL NUMBER: EB-685

OWNER: BATON ROUGE RECREATION AND PARK COMMISSION. (SEC. 53, T. 5S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 6 TO 3 IN, DEPTH 1,640 FT, SCREENED 1,580-1,640. MP HOLE IN CENTER OF 6-IN PLUG ATOP CASING, 1.73 FT ABOVE LSD.  
 LSD 65.00 FT NGVD.  
 HIGHEST WATER LEVEL 48.95 BELOW LSD, APR. 30, 1959,  
 LOWEST WATER LEVEL 184.37 BELOW LSD, NOV. 15, 1972.  
 RECORDS AVAILABLE 1959-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 31, 1980 | 179.99      | JAN. 21, 1981 | 175.31      | APR. 1, 1981 | 178.37      | JULY 22, 1981 | 171.96      |

GROUND-WATER LEVELS  
EAST BATON ROUGE PARISH

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302414091032601 LOCAL WELL NUMBER: EB-745

OWNER: DOLESE CONCRETE CO. (SEC. 58, T. 7S., R. 2E.) DRILLED INDUSTRIAL ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 6 TO 4 IN, DEPTH 503 FT, SCREENED 483-503. MP LOWER EDGE 2-IN PIPE WELDED TO CASING, 2.27 FT ABOVE LSD.  
LSD 40.00 FT NGVD.  
HIGHEST WATER LEVEL 27.00 BELOW LSD, MAY 4, 1958,  
LOWEST WATER LEVEL 41.11 BELOW LSD, OCT. 28, 1980.  
RECORDS AVAILABLE 1958, 1970, 1972, 1980-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 28, 1980 | 41.11       | JAN. 23, 1981 | 37.65       | APR. 3, 1981 | 38.53       | JULY 24, 1981 | 35.97       |

302509091082701 LOCAL WELL NUMBER: EB-778

OWNER: U. S. GEOL. SURVEY. (SEC. 94, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 2,586 FT, SCREENED 2,581-2,586. MP TOP OF 4 X 2-IN REDUCER, 2.84 FT ABOVE LSD.  
LSD 28.00 FT NGVD.  
HIGHEST WATER LEVEL 40.10 ABOVE LSD, MAR. 16, 1965,  
LOWEST WATER LEVEL 0.76 BELOW LSD, JAN. 26, 1981.  
RECORDS AVAILABLE 1965-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 0.23        | JAN. 26, 1981 | 0.76        | APR. 3, 1981 | 0.61        | JULY 23, 1981 | 0.16        |
| OCT. 29       | 0.40        |               |             |              |             |               |             |

302509091082702 LOCAL WELL NUMBER: EB-780A

OWNER: U. S. GEOL. SURVEY. (SEC. 94, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN, DEPTH 1,622 FT, SCREENED 1,617-1,622. MP HOLE IN SANITARY SEAL, 2.24 FT ABOVE LSD.  
LSD 28.00 FT NGVD.  
HIGHEST WATER LEVEL 2.26 ABOVE LSD, JAN. 12, 1966,  
LOWEST WATER LEVEL 30.80 BELOW LSD, JULY 23, 1981.  
RECORDS AVAILABLE 1965-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 29.46       | JAN. 26, 1981 | 29.34       | APR. 3, 1981 | 29.66       | JULY 23, 1981 | 30.80       |
| OCT. 29       | 29.46       |               |             |              |             |               |             |

302509091082703 LOCAL WELL NUMBER: EB-780B

OWNER: U. S. GEOL. SURVEY. (SEC. 94, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN, DEPTH 1,913 FT, SCREENED 1,908-1,913. MP TOP EDGE OF 2-IN LINER, 2.41 FT ABOVE LSD.  
LSD 28.00 FT NGVD.  
HIGHEST WATER LEVEL 8.58 ABOVE LSD, APR. 23, 1965,  
LOWEST WATER LEVEL 24.90 BELOW LSD, JULY 23, 1981.  
RECORDS AVAILABLE 1965-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 24.47       | JAN. 26, 1981 | 24.61       | APR. 3, 1981 | 24.79       | JULY 23, 1981 | 24.90       |
| OCT. 29       | 24.44       |               |             |              |             |               |             |

302535091090401 LOCAL WELL NUMBER: EB-781

OWNER: U. S. GEOL. SURVEY. (SEC. 94, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 2,286 FT, SCREENED 2,282-2,286. MP TOP EDGE OF 2-IN STEEL AIRLINE, 2.82 FT ABOVE LSD.  
LSD 28.00 FT NGVD.  
HIGHEST WATER LEVEL 119.12 BELOW LSD, MAR. 15, 1966,  
LOWEST WATER LEVEL 241.60 BELOW LSD, AUG. 14, 1973.  
RECORDS AVAILABLE 1965-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 230.01      | JAN. 26, 1981 | 224.68      | APR. 2, 1981 | 230.95      | JULY 23, 1981 | 226.07      |
| NOV. 14       | 229.13      |               |             |              |             |               |             |

302535091090402 LOCAL WELL NUMBER: FB-782A

OWNER: U. S. GEOL. SURVEY. (SEC. 94, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,000-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN, DEPTH 1,189 FT, SCREENED 1,184-1,189, MP TOP EDGE OF 3/8-IN HOLE IN CAP, 2.00 FT ABOVE LSD.  
 LSD 28.00 FT NGVD.  
 HIGHEST WATER LEVEL 18.54 BELOW LSD, MAY 19, 1975.  
 LOWEST WATER LEVEL 26.19 BELOW LSD, APR. 2, 1981.  
 RECORDS AVAILABLE 1965-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 25.06       | JAN. 26, 1981 | 25.90       | APR. 2, 1981 | 26.19       | JULY 23, 1981 | 25.90       |
| NOV. 14       | 25.34       |               |             |              |             |               |             |

302535091090403 LOCAL WELL NUMBER: ER-782R

OWNER: U. S. GEOL. SURVEY. (SEC. 94, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 2 IN, DEPTH 1,681 FT, SCREENED 1,676-1,681, MP TOP EDGE OF 5/8-IN PIPE IN CAP, 2.00 FT ABOVE LSD.  
 LSD 28.00 FT NGVD.  
 HIGHEST WATER LEVEL 49.35 BELOW LSD, JAN. 20, 1966.  
 LOWEST WATER LEVEL 119.00 BELOW LSD, JULY 12, 1979.  
 RECORDS AVAILABLE 1965-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE        | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 108.80      | JAN. 26, 1981 | 107.05      | MAY 5, 1981 | 109.43      | JULY 23, 1981 | 118.38      |
| NOV. 14       | 108.10      | APR. 2        | 110.20      |             |             |               |             |

302502091113601 LOCAL WELL NUMBER: EB-783A

OWNER: U. S. GEOL. SURVEY. (SEC. 54, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN, DEPTH 2,179 FT, SCREENED 2,174-2,179, MP TOP OF 4-IN NIPPLE, 2.00 FT ABOVE LSD.  
 LSD 26.00 FT NGVD.  
 HIGHEST WATER LEVEL 16.20 ABOVE LSD, MAR. 1, 1966.  
 LOWEST WATER LEVEL 56.27 BELOW LSD, JULY 11, 1980.  
 RECORDS AVAILABLE 1965-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 28, 1980 | 47.34       | JAN. 26, 1981 | 50.32       | APR. 3, 1981 | 51.85       | JULY 23, 1981 | 48.15       |
| OCT. 29       | 47.36       |               |             |              |             |               |             |

302502091113602 LOCAL WELL NUMBER: EB-783B

OWNER: U. S. GEOL. SURVEY. (SEC. 54, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 IN, DEPTH 2,675 FT, SCREENED 2,670-2,675, MP TOP OF 2-IN LINER, 2.56 FT ABOVE LSD.  
 LSD 26.00 FT NGVD.  
 HIGHEST WATER LEVEL 54.90 ABOVE LSD, MAR. 1, 1966.  
 LOWEST WATER LEVEL 40.45 BELOW LSD, JULY 22, 1977.  
 RECORDS AVAILABLE 1965-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 28, 1980 | 32.26       | JAN. 26, 1981 | 17.86       | APR. 3, 1981 | 6.49        | JULY 23, 1981 | 27.63       |
| OCT. 29       | 32.49       |               |             |              |             |               |             |

302511091070401 LOCAL WELL NUMBER: EB-789A

OWNER: U. S. GEOL. SURVEY. (SEC. 93, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 711 FT, SCREENED 707-711, MP HOLE IN SANITARY SEAL, 0.61 FT ABOVE LSD.  
 LSD 37.00 FT NGVD.  
 HIGHEST WATER LEVEL 9.50 BELOW LSD, MAY 17, 1979.  
 LOWEST WATER LEVEL 33.02 BELOW LSD, NOV. 14, 1966.  
 RECORDS AVAILABLE 1965-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 30.79       | JAN. 23, 1981 | 32.25       | APR. 3, 1981 | 28.10       | AUG. 28, 1981 | 26.35       |
| NOV. 7        | 26.84       |               |             |              |             |               |             |



GROUND-WATER LEVELS  
EAST BATON ROUGE PARISH

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302511091070402 LOCAL WELL NUMBER: ER-7899

OWNER: U. S. GEOL. SURVEY. (SEC. 93, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 1,721 FT, SCREENED 1,717-1,721. MP TOP OF 2-IN LINER, 0.88 FT ABOVE LSD.  
LSD 37.00 FT NGVD.  
HIGHEST WATER LEVEL 6.15 BELOW LSD, MAR. 4, 1966.  
LOWEST WATER LEVEL 39.74 BELOW LSD, AUG. 28, 1981.  
RECORDS AVAILABLE 1965-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE        | WATER<br>LEVEL | DATE          | WATER<br>LEVEL |
|---------------|----------------|---------------|----------------|-------------|----------------|---------------|----------------|
| OCT. 27, 1980 | 37.86          | JAN. 23, 1981 | 37.52          | MAY 7, 1981 | 37.82          | AUG. 28, 1981 | 39.74          |
| OCT. 29       | 37.83          | APR. 3        | 37.80          |             |                |               |                |

302605091090602 LOCAL WELL NUMBER: ER-7928

OWNER: U. S. GEOL. SURVEY. (SEC. 95, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 2,286 FT, SCREENED 2,282-2,286. MP TOP OF AIRLINE IN 2-IN LINER, 2.39 FT ABOVE LSD.  
LSD 45.00 FT NGVD.  
HIGHEST WATER LEVEL 121.92 BELOW LSD, MAR. 28, 1966.  
LOWEST WATER LEVEL 239.60 BELOW LSD, JULY 27, 1973.  
RECORDS AVAILABLE 1965-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE         | WATER<br>LEVEL | DATE          | WATER<br>LEVEL |
|---------------|----------------|---------------|----------------|--------------|----------------|---------------|----------------|
| OCT. 27, 1980 | 231.45         | JAN. 26, 1981 | 226.27         | APR. 3, 1981 | 231.74         | JULY 24, 1981 | 227.09         |

302719091103201 LOCAL WELL NUMBER: ER-793

OWNER: U. S. GEOL. SURVEY. (SEC. 71, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 687 FT, SCREENED 683-687. MP TOP EDGE OF 2-IN LINER, 2.00 FT ABOVE LSD.  
LSD 35.30 FT NGVD.  
HIGHEST WATER LEVEL 50.79 BELOW LSD, MAY 6, 1980.  
LOWEST WATER LEVEL 121.55 BELOW LSD, OCT. 21, 1968.  
RECORDS AVAILABLE 1965-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE        | WATER<br>LEVEL | DATE          | WATER<br>LEVEL |
|---------------|----------------|---------------|----------------|-------------|----------------|---------------|----------------|
| OCT. 22, 1980 | 76.74          | FEB. 24, 1981 | 65.18          | MAY 5, 1981 | 58.62          | JULY 22, 1981 | 66.06          |
| DEC. 10       | 73.57          | APR. 2        | 60.46          | JUNE 15     | 57.27          | AUG. 26       | 68.41          |
| JAN. 20, 1981 | 65.76          |               |                |             |                |               |                |

302559091110801 LOCAL WELL NUMBER: ER-794

OWNER: U. S. GEOL. SURVEY. (SEC. 52, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 2,709 FT, SCREENED 2,705-2,709. MP TOP EDGE OF 3/4-IN PVC AIRLINE, 3.00 FT ABOVE LSD.  
LSD 51.00 FT NGVD.  
HIGHEST WATER LEVEL 113.28 BELOW LSD, JULY 27, 1965.  
LOWEST WATER LEVEL 204.76 BELOW LSD, JULY 13, 1979.  
RECORDS AVAILABLE 1965-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE        | WATER<br>LEVEL | DATE          | WATER<br>LEVEL |
|---------------|----------------|---------------|----------------|-------------|----------------|---------------|----------------|
| OCT. 28, 1980 | 198.60         | JAN. 20, 1981 | 194.85         | MAY 8, 1981 | 193.76         | JULY 23, 1981 | 192.30         |
| NOV. 3        | 198.93         | APR. 2        | 195.02         |             |                |               |                |

302306091022601 LOCAL WELL NUMBER: ER-8034

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 8S., R. 2E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN, DEPTH 1,975 FT, SCREENED 1,971-1,975. MP TOP EDGE OF 3/8-IN OPENING IN RUSHING IN SANITARY SEAL, 2.11 FT ABOVE LSD.  
LSD 27.00 FT NGVD.  
HIGHEST WATER LEVEL 15.30 ABOVE LSD, MAY 18, 1966.  
LOWEST WATER LEVEL 16.00 BELOW LSD, NOV. 20, 1980.  
RECORDS AVAILABLE 1966-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE         | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|--------------|----------------|------|----------------|------|----------------|
| NOV. 20, 1980 | 16.00          | APR. 3, 1981 | 15.92          |      |                |      |                |



302306091022602 LOCAL WELL NUMBER: FB-803B

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 8S., R. 2E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 2,565 FT, SCREENED 2,561-2,565. MP TOP EDGE OF 4-IN TEE, 1.65 FT ABOVE LSD.  
 LSD 27.00 FT NGVD.  
 HIGHEST WATER LEVEL 53.10 ABOVE LSD, APR. 4, 1966,  
 LOWEST WATER LEVEL 16.00 ABOVE LSD, NOV. 7, 1978.  
 RECORDS AVAILABLE 1966-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|--------------|-------------|------|-------------|------|-------------|
| JAN. 26, 1981 | 18.00       | APR. 3, 1981 | 18.20       |      |             |      |             |

302428091035001 LOCAL WELL NUMBER: FB-804A

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 70, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,700-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 IN, DEPTH 1,950 FT, SCREENED 1,946-1,950. MP TOP OF 4-IN CASING, 1.57 FT ABOVE LSD.  
 LSD 46.00 FT NGVD.  
 HIGHEST WATER LEVEL 44.34 BELOW LSD, JUNE 9, 1967,  
 LOWEST WATER LEVEL 94.03 BELOW LSD, NOV. 8, 1979.  
 RECORDS AVAILABLE 1966-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|--------------|-------------|------|-------------|------|-------------|
| NOV. 10, 1980 | 92.92       | APR. 1, 1981 | 91.65       |      |             |      |             |

302428091035002 LOCAL WELL NUMBER: ER-804B

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 70, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 2,762 FT, SCREENED 2,758-2,762. MP TOP OF 2-IN CASING, 2.67 FT ABOVE LSD.  
 LSD 46.00 FT NGVD.  
 HIGHEST WATER LEVEL 32.45 BELOW LSD, MAY 6, 1966, MAY 18, 1966,  
 LOWEST WATER LEVEL 103.10 BELOW LSD, NOV. 10, 1980.  
 RECORDS AVAILABLE 1966-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|--------------|-------------|------|-------------|------|-------------|
| NOV. 10, 1980 | 103.10      | APR. 1, 1981 | 97.75       |      |             |      |             |

302428091035003 LOCAL WELL NUMBER: ER-805

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 70, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 1,072 FT, SCREENED 1,068-1,072. MP TOP OF 1 1/2-IN HOLE IN CAP, 1.25 FT ABOVE LSD.  
 LSD 46.00 FT NGVD.  
 HIGHEST WATER LEVEL 40.04 BELOW LSD, JUNE 9, 1967,  
 LOWEST WATER LEVEL 57.43 BELOW LSD, OCT. 11, 1980.  
 RECORDS AVAILABLE 1966-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE        | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|--------------|-------------|-------------|-------------|------|-------------|
| OCT. 11, 1980 | 57.43       | APR. 2, 1981 | 56.09       | MAY 6, 1981 | 56.37       |      |             |

302702091103902 LOCAL WELL NUMBER: ER-806B

OWNER: U. S. GEOL. SURVEY. (SEC. 72, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 2,579 FT, SCREENED 2,575-2,579. MP TOP EDGE OF 1 1/2-IN NIPPLE, 1.83 FT ABOVE LSD.  
 LSD 46.50 FT NGVD.  
 HIGHEST WATER LEVEL 119.03 BELOW LSD, MAY 19, 1966,  
 LOWEST WATER LEVEL 204.05 BELOW LSD, JULY 12, 1979.  
 RECORDS AVAILABLE 1966-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 197.39      | JAN. 20, 1981 | 193.94      | APR. 2, 1981 | 194.36      | JULY 23, 1981 | 193.52      |
| NOV. 5        | 197.14      |               |             |              |             |               |             |

See footnotes at end of table.

GROUND-WATER LEVELS  
EAST BATON ROUGE PARISH

279

302611091091201 LOCAL WELL NUMBER: EB-807A

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 96, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN, DEPTH 1,713 FT, SCREENED 1,709-1,713. MP TOP OF 3/8-IN HOLE IN CAP, 2.50 FT ABOVE LSD.  
LSD 34.86 FT NGVD.  
HIGHEST WATER LEVEL 63.76 BELOW LSD, APR. 24, 1969.  
LOWEST WATER LEVEL 129.31 BELOW LSD, JULY 23, 1981.  
RECORDS AVAILABLE 1966-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE        | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 118.70      | JAN. 26, 1981 | 117.15      | MAY 5, 1981 | 116.19      | JULY 23, 1981 | 129.31      |
| NOV. 12       | 118.33      | APR. 2        | 120.50      |             |             |               |             |

302611091091202 LOCAL WELL NUMBER: EB-807B

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 96, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 2,264 FT, SCREENED 2,260-2,264. MP TOP OF 3/8-IN HOLE IN CAP, 2.50 FT ABOVE LSD.  
LSD 34.86 FT NGVD.  
HIGHEST WATER LEVEL 132.14 BELOW LSD, MAY 19, 1966.  
LOWEST WATER LEVEL 249.90 BELOW LSD, JULY 27, 1973.  
RECORDS AVAILABLE 1966-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE        | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 235.90      | JAN. 26, 1981 | 229.73      | MAY 5, 1981 | 217.57      | JULY 23, 1981 | 231.98      |
| NOV. 12       | 234.29      | APR. 2        | 236.38      |             |             |               |             |

302501091101201 LOCAL WELL NUMBER: EB-818

OWNER: LOUISIANA WATER RESOURCES RESEARCH INSTITUTE. (SEC. 67, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 615 FT, SCREENED 609-615. MP TOP EDGE OF 2-IN CASING, 0.48 FT ABOVE LSD.  
LSD 25.59 FT NGVD.  
HIGHEST WATER LEVEL 6.60 ABOVE LSD, APR. 27, 1973.  
LOWEST WATER LEVEL 23.50 BELOW LSD, OCT. 23, 1968.  
RECORDS AVAILABLE 1967-80.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| OCT. 28, 1980 | 20.04       |      |             |      |             |      |             |

302501091101202 LOCAL WELL NUMBER: EB-819

OWNER: LOUISIANA WATER RESOURCES RESEARCH INSTITUTE. (SEC. 67, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("SHALLOW PLEISTOCENE" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 322 FT, SCREENED 316-322. MP TOP OF CASING, 0.59 FT ABOVE LSD.  
LSD 25.68 FT NGVD.  
HIGHEST WATER LEVEL 9.60 ABOVE LSD, APR. 16, 1973, APR. 17, 1973.  
LOWEST WATER LEVEL 20.40 BELOW LSD, OCT. 23, 1968.  
RECORDS AVAILABLE 1967-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|--------------|-------------|------|-------------|------|-------------|
| OCT. 28, 1980 | 19.18       | APR. 3, 1981 | 16.30       |      |             |      |             |

302510091105001 LOCAL WELL NUMBER: EB-820

OWNER: LOUISIANA WATER RESOURCES RESEARCH INSTITUTE. (SEC. 54, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("SHALLOW PLEISTOCENE" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 259 FT, SCREENED 253-259. MP TOP OF CASING, 0.71 FT ABOVE LSD.  
LSD 22.24 FT NGVD.  
HIGHEST WATER LEVEL 14.10 ABOVE LSD, APR. 27, 1979.  
LOWEST WATER LEVEL 17.74 BELOW LSD, OCT. 23, 1968.  
RECORDS AVAILABLE 1967-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|--------------|-------------|------|-------------|------|-------------|
| OCT. 28, 1980 | 16.48       | APR. 3, 1981 | 13.66       |      |             |      |             |

302510091105003 LOCAL WELL NUMBER: EB-822

OWNER: LOUISIANA WATER RESOURCES RESEARCH INSTITUTE. (SEC. 54, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 573 FT, SCREENED 567-573. MP TOP OF COLLAR WELDED ON CASING, 0.58 FT ABOVE LSD, LSD 22.60 FT NGVD.  
 HIGHEST WATER LEVEL 12.30 ABOVE LSD, APR. 27, 1979,  
 LOWEST WATER LEVEL 19.48 BELOW LSD, OCT. 23, 1968.  
 RECORDS AVAILABLE 1967-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE         | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|--------------|-------------|--------------|-------------|------|-------------|
| OCT. 28, 1980 | 17.02       | NOV. 3, 1980 | 17.56       | APR. 3, 1981 | 14.50       |      |             |

302553091092001 LOCAL WELL NUMBER: EB-824

OWNER: LOUISIANA WATER RESOURCES RESEARCH INSTITUTE. (SEC. 96, T. 7S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 581 FT, SCREENED 575-581. MP TOP OF CASING, 0.50 FT ABOVE LSD, LSD 33.56 FT NGVD.  
 HIGHEST WATER LEVEL 41.23 BELOW LSD, MAY 6, 1980,  
 LOWEST WATER LEVEL 90.29 BELOW LSD, OCT. 23, 1968.  
 RECORDS AVAILABLE 1967-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 61.22       | JAN. 26, 1981 | 53.75       | APR. 2, 1981 | 48.97       | JULY 23, 1981 | 50.61       |

302553091092002 LOCAL WELL NUMBER: EB-825

OWNER: LOUISIANA WATER RESOURCES RESEARCH INSTITUTE. (SEC. 96, T. 7S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 475 FT, SCREENED 469-475. MP TOP OF CASING, 0.50 FT ABOVE LSD, LSD 33.57 FT NGVD.  
 HIGHEST WATER LEVEL 32.57 BELOW LSD, MAY 6, 1975,  
 LOWEST WATER LEVEL 63.45 BELOW LSD, NOV. 8, 1968.  
 RECORDS AVAILABLE 1967-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 44.84       | JAN. 26, 1981 | 40.75       | APR. 2, 1981 | 36.71       | JULY 23, 1981 | 33.95       |

303023091075601 LOCAL WELL NUMBER: EB-826

OWNER: LOUISIANA WATER RESOURCES RESEARCH INSTITUTE. (SEC. 40, T. 6S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 350 FT, SCREENED 344-350. MP TOP OF CASING, 0.50 FT ABOVE LSD, LSD 56.77 FT NGVD.  
 HIGHEST WATER LEVEL 55.40 BELOW LSD, MAY 6, 1975,  
 LOWEST WATER LEVEL 103.18 BELOW LSD, NOV. 1, 1968.  
 RECORDS AVAILABLE 1967-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 70.75       | JAN. 20, 1981 | 65.13       | APR. 1, 1981 | 56.65       | JULY 23, 1981 | 55.83       |

303356091095301 LOCAL WELL NUMBER: EB-827

OWNER: LOUISIANA WATER RESOURCES RESEARCH INSTITUTE. (SEC. 54, T. 5S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 370 FT, SCREENED 364-370. MP TOP OF CASING, 0.50 FT ABOVE LSD, LSD 63.96 FT NGVD.  
 HIGHEST WATER LEVEL 38.82 BELOW LSD, MAY 15, 1979,  
 LOWEST WATER LEVEL 68.13 BELOW LSD, NOV. 1, 1968.  
 RECORDS AVAILABLE 1967-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 31, 1980 | 57.13       | JAN. 21, 1981 | 56.70       | APR. 1, 1981 | 52.54       | JULY 22, 1981 | 47.48       |

GROUND-WATER LEVELS  
EAST BATON ROUGE PARISH

281

303912091150801 LOCAL WELL NUMBER: FR-849

OWNER: GEORGIA-PACIFIC CORP. (SEC. 31, T. 4S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 6 IN, DEPTH 1,380 FT, SCREENED 1,250-1,270, 1,350-1,380. MP TOP OF CASING, 1.70 FT ABOVE LSD.  
LSD 91.00 FT NGVD.  
HIGHEST WATER LEVEL 47.79 BELOW LSD, FEB. 22, 1966,  
LOWEST WATER LEVEL 139.14 BELOW LSD, OCT. 29, 1980.  
RECORDS AVAILABLE 1966, 1968-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 29, 1980 | 139.14      | JAN. 19, 1981 | 137.53      | MAR. 30, 1981 | 137.35      | JULY 20, 1981 | 138.22      |

302919091020601 LOCAL WELL NUMBER: EB-866

OWNER: SOUTH CENTRAL BELL TEL. CO. (SEC. 52, R. 6S., R. 2E.) DRILLED COMMERCIAL ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 400 FT, SCREENED 380-400. MP HOLE IN SANITARY SEAL, 0.85 FT ABOVE LSD.  
LSD 49.00 FT NGVD.  
HIGHEST WATER LEVEL 20.00 BELOW LSD, NOV. 9, 1979,  
LOWEST WATER LEVEL 38.60 BELOW LSD, OCT. 21, 1970.  
RECORDS AVAILABLE 1970, 1973-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|--------------|-------------|------|-------------|------|-------------|
| OCT. 28, 1980 | 20.85       | APR. 2, 1981 | 26.15       |      |             |      |             |

302729091100601 LOCAL WELL NUMBER: FB-870

OWNER: U. S. GEOL. SURVEY. (SEC. 44, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 692 FT, SCREENED 687-692. MP TOP OF CASING, AT LSD.  
LSD 50.00 FT NGVD.  
HIGHEST WATER LEVEL 67.98 BELOW LSD, MAY 6, 1980,  
LOWEST WATER LEVEL 142.48 BELOW LSD, OCT. 5, 1971.  
RECORDS AVAILABLE 1971-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE        | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|
| OCT. 22, 1980 | 95.84       | FEB. 24, 1981 | 82.85       | MAY 5, 1981 | 75.48       | JULY 22, 1981 | 85.30       |
| DEC. 10       | 91.83       | APR. 2        | 77.53       | JUNE 15     | 75.27       | AUG. 26       | 87.79       |
| JAN. 20, 1981 | 83.65       |               |             |             |             |               |             |

303905090583301 LOCAL WELL NUMBER: EB-896

OWNER: U. S. GEOL. SURVEY (SEC. 51, T. 4S., R. 2E.) BORED OBSERVATION ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 73 FT, SCREENED 70-73. MP TOP OF 1 1/4-IN CASING, 3.92 FT ABOVE LSD.  
LSD 82.00 FT NGVD.  
HIGHEST WATER LEVEL 15.17 BELOW LSD, APR. 22, 1974,  
LOWEST WATER LEVEL 17.85 BELOW LSD, DEC. 12, 1972.  
RECORDS AVAILABLE 1972-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 30, 1980 | 17.11       | JAN. 21, 1981 | 17.35       | MAR. 31, 1981 | 17.08       | JULY 21, 1981 | 17.38       |

302614091083001 LOCAL WELL NUMBER: EB-917

OWNER: U. S. GEOL. SURVEY. (SEC. 95, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,500-FT SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 1,736 FT, SCREENED 1,731-1,736. MP TOP OF 4-IN CASING, AT LSD.  
LSD 46.56 FT NGVD.  
HIGHEST WATER LEVEL 116.98 BELOW LSD, APR. 10, 1978,  
LOWEST WATER LEVEL 139.22 BELOW LSD, JULY 12, 1979.  
RECORDS AVAILABLE 1973-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE        | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 129.09      | JAN. 26, 1981 | 126.77      | MAY 6, 1981 | 128.61      | JULY 23, 1981 | 139.00      |
| NOV. 7        | 128.84      | APR. 3        | 130.39      |             |             |               |             |

302547091074401 LOCAL WELL NUMBER: EB-918

OWNER: U. S. GEOL. SURVEY, (SEC. 91, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 1,834 FT, SCREENED 1,829-1,834. MP TOP EDGE OF 4-IN COLLAR, AT LSD.  
 LSD 40.00 FT NGVD.  
 HIGHEST WATER LEVEL 103.15 BELOW LSD, DEC. 12, 1973.  
 LOWEST WATER LEVEL 126.94 BELOW LSD, JULY 13, 1979.  
 RECORDS AVAILABLE 1973-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE        | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 117.65      | JAN. 23, 1981 | 116.00      | MAY 7, 1981 | 116.74      | JULY 23, 1981 | 126.63      |
| NOV. 6        | 118.00      | APR. 3        | 118.60      |             |             |               |             |

302955091060601 LOCAL WELL NUMBER: EB-933

OWNER: U. S. GEOL. SURVEY, (SEC. 50, T. 6S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLISTOCENE AGE, DIAM 2 IN, DEPTH 603 FT, SCREENED 592-603. MP TOP OF 2-IN CASING, 1.30 FT ABOVE LSD.  
 LSD 51.00 FT NGVD.  
 HIGHEST WATER LEVEL 50.21 BELOW LSD, MAY 7, 1980.  
 LOWEST WATER LEVEL 67.84 BELOW LSD, NOV. 18, 1977.  
 RECORDS AVAILABLE 1974-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|--------------|-------------|------|-------------|------|-------------|
| OCT. 28, 1980 | 58.65       | APR. 2, 1981 | 52.55       |      |             |      |             |

302955091060501 LOCAL WELL NUMBER: EB-934

OWNER: U. S. GEOL. SURVEY, (SEC. 50, T. 6S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLISTOCENE AGE, DIAM 2 IN, DEPTH 385 FT, SCREENED 372-385. MP TOP OF 2-IN CASING, 1.10 FT ABOVE LSD.  
 LSD 51.00 FT NGVD.  
 HIGHEST WATER LEVEL 40.08 BELOW LSD, MAY 22, 1975.  
 LOWEST WATER LEVEL 55.98 BELOW LSD, NOV. 18, 1977.  
 RECORDS AVAILABLE 1974-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|--------------|-------------|------|-------------|------|-------------|
| OCT. 28, 1980 | 48.19       | APR. 2, 1981 | 43.06       |      |             |      |             |

302932091101901 LOCAL WELL NUMBER: EB-944

OWNER: U. S. GEOL. SURVEY, (SEC. 43, T. 6S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 IN, DEPTH 2,792 FT, SCREENED 2,782-2,792. MP TOP INSIDE EDGE OF SIDE OPENING OF 2-IN TEE ON LINER, 1.63 FT ABOVE LSD.  
 LSD 59.00 FT NGVD.  
 HIGHEST WATER LEVEL 33.53 BELOW LSD, FEB. 4, 1975.  
 LOWEST WATER LEVEL 52.25 BELOW LSD, FEB. 22, 1980.  
 RECORDS AVAILABLE 1975-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 31, 1980 | 52.12       | JAN. 28, 1981 | 49.92       | APR. 30, 1981 | 43.72       | JULY 27, 1981 | 48.47       |
| NOV. 25       | 49.37       | MAR. 5        | 44.12       | MAY 28        | 48.17       | SEP. 1        | 50.37       |
| DEC. 31       | 51.37       | APR. 2        | 40.52       | JUNE 25       | 48.47       |               |             |

302932091101902 LOCAL WELL NUMBER: EB-945

OWNER: U. S. GEOL. SURVEY, (SEC. 43, T. 6S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLISTOCENE AGE, DIAM 4 IN, DEPTH 654 FT, SCREENED 644-654. MP TOP INSIDE EDGE OF SIDE OPENING OF 2-IN TEE ON LINER, 2.27 FT ABOVE LSD.  
 LSD 59.00 FT NGVD.  
 HIGHEST WATER LEVEL 82.77 BELOW LSD, MAY 1, 1980.  
 LOWEST WATER LEVEL 158.05 BELOW LSD, AUG. 26, 1976.  
 RECORDS AVAILABLE 1975-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 31, 1980 | 120.73      | JAN. 28, 1981 | 114.83      | APR. 30, 1981 | 92.63       | JULY 27, 1981 | 107.73      |
| NOV. 25       | 120.83      | MAR. 5        | 97.58       | MAY 28        | 85.33       | SEP. 1        | 112.83      |
| DEC. 31       | 103.83      | APR. 2        | 93.07       | JUNE 25       | 104.83      |               |             |



GROUND-WATER LEVELS  
EAST BATON ROUGE PARISH

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302932091101903 LOCAL WELL NUMBER: EB-946

OWNER: U. S. GEOL. SURVEY. (SEC. 43, T. 6S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN, DEPTH 1,234 FT, SCREENED 1,224-1,234. MP TOP INSIDE EDGE OF SIDE OPENING OF 2-IN TEE ON LINER, 2.02 FT ABOVE LSD.  
LSD 59.00 FT NGVD.  
HIGHEST WATER LEVEL 143.78 BELOW LSD, DEC. 31, 1980,  
LOWEST WATER LEVEL 193.08 BELOW LSD, OCT. 2, 1978.  
RECORDS AVAILABLE 1975-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 31, 1980 | 153.78      | JAN. 28, 1981 | 153.78      | APR. 30, 1981 | 167.38      | JULY 27, 1981 | 173.08      |
| NOV. 25       | 153.68      | MAR. 5        | 165.08      | MAY 28        | 171.08      | SEP. 1        | 168.58      |
| DEC. 31       | 143.78      | APR. 2        | 159.68      | JUNE 25       | 170.88      |               |             |

303251091115001 LOCAL WELL NUMBER: EB-1000

OWNER: U. S. GEOL. SURVEY. (SEC. 69, T. 6S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 1/2 IN, DEPTH 2,926 FT, SCREENED 2,916-2,926. MP TOP EDGE OF 2 1/2-IN COLLAR, AT LSD.  
LSD 69.00 FT NGVD.  
HIGHEST WATER LEVEL 45.06 BELOW LSD, DEC. 19, 1977,  
LOWEST WATER LEVEL 57.53 BELOW LSD, FEB. 26, 1980.  
RECORDS AVAILABLE 1977-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 31, 1980 | 57.20       | JAN. 21, 1981 | 56.37       | APR. 1, 1981 | 54.91       | JULY 22, 1981 | 55.36       |
| NOV. 12       | 57.38       |               |             |              |             |               |             |

302238091102501 LOCAL WELL NUMBER: EB-1015

OWNER: U. S. GEOL. SURVEY. (SEC. 74, T. 8S., R. 1W.) BORED OBSERVATION ARTESIAN WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 171 FT, SCREENED 166-171. MP TOP EDGE OF 1 1/4-IN TO 3/4-IN REDUCER ATOP CASING, 2.39 FT ABOVE LSD.  
LSD 24.78 FT NGVD.  
HIGHEST WATER LEVEL 3.69 ABOVE LSD, MAY 5, 1980,  
LOWEST WATER LEVEL 19.83 BELOW LSD, JAN. 26, 1981.  
RECORDS AVAILABLE 1979-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 28, 1980 | 18.17       | JAN. 26, 1981 | 19.83       | APR. 3, 1981 | 15.44       | JULY 23, 1981 | 7.77        |

302919091020501 LOCAL WELL NUMBER: EB-1019

OWNER: U. S. GEOL. SURVEY. (SEC. 52, T. 6S., R. 2E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLISTOCENE AGE, DIAM 2 IN, DEPTH 700 FT, SCREENED 690-700. MP TOP OF 2-IN CASING, AT LSD (SINCE 9/25/80).  
LSD 49.00 FT NGVD.  
HIGHEST WATER LEVEL 38.88 BELOW LSD, MAY 7, 1980,  
LOWEST WATER LEVEL 41.34 BELOW LSD, DEC. 19, 1979.  
RECORDS AVAILABLE 1979-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|--------------|-------------|------|-------------|------|-------------|
| OCT. 28, 1980 | 40.55       | APR. 2, 1981 | 39.18       |      |             |      |             |

302605091100901 LOCAL WELL NUMBER: EB-1028

OWNER: U. S. GEOL. SURVEY. (SEC. 53, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 1/2 IN, DEPTH 2,238 FT, SCREENED 2,223-2,238. MP TOP EDGE 1-IN AIRLINE COLLAR, 0.30 FT BELOW LSD.  
LSD 40.00 FT NGVD.  
HIGHEST WATER LEVEL 235.00 BELOW LSD, MAY 20, 1981,  
LOWEST WATER LEVEL 245.19 BELOW LSD, JULY 23, 1981.  
RECORDS AVAILABLE CURRENT YEAR.

| DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|--------------|-------------|---------------|-------------|------|-------------|------|-------------|
| MAY 20, 1981 | 235.00      | JULY 23, 1981 | 245.19      |      |             |      |             |



304951091115102 LOCAL WELL NUMBER: EF-55

OWNER: E. LOUISIANA STATE HOSPITAL, (SEC. 59, T. 2S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN ZONE 2 AQUIFER OF PLIOCENE-MIOCENE AGE, DIAM 6 IN, REPORTED DEPTH 1350 FT, SCREENED INTERVAL 1290-1350. MP EDGE OF HOLE IN PLATE OVER WELL, 0.10 FT ABOVE LSD (SINCE 10/29/80).  
 LSD 225.00 FT NGVD.  
 HIGHEST WATER LEVEL 122.23 BELOW LSD, MAY 7, 1957,  
 LOWEST WATER LEVEL 196.72 BELOW LSD, OCT. 29, 1980.  
 RECORDS AVAILABLE 1957-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| OCT. 29, 1980 | 196.72      | MAR. 30, 1981 | 196.56      |      |             |      |             |

305144091010901 LOCAL WELL NUMBER: EF-61

OWNER: TOWN OF CLINTON, (SEC. 83, T. 2S., R. 2E.) DRILLED UNUSED ARTESIAN WELL IN ZONE 1 AQUIFER OF MIOCENE AGE, DIAM 6 IN, REPORTED DEPTH 305 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 1/2-IN UNION, 1.55 FT ABOVE LSD.  
 LSD 210.00 FT NGVD.  
 HIGHEST WATER LEVEL 63.76 BELOW LSD, MAY 16, 1961,  
 LOWEST WATER LEVEL 81.99 BELOW LSD, MAR. 30, 1981.  
 RECORDS AVAILABLE 1961-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| OCT. 29, 1980 | 81.74       | MAR. 30, 1981 | 81.99       |      |             |      |             |

305152091010201 LOCAL WELL NUMBER: EF-73R

OWNER: TOWN OF CLINTON, (SEC. 83, T. 2S., R. 2E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN ZONE 3 AQUIFER OF MIOCENE AGE, DIAM 12 IN, REPORTED DEPTH 1966 FT, SCREENED 1688-1718, 1773-1795, 1862-1872, 1880-1900, 1917-1929, AND 1948-1966. MP TOP EDGE OF BREATHER HOLE IN PLATE ATOP 12-IN CASING, 1.62 FT ABOVE LSD.  
 LSD 195.00 FT NGVD.  
 HIGHEST WATER LEVEL 93.01 BELOW LSD, MAR. 5, 1959,  
 LOWEST WATER LEVEL 128.14 BELOW LSD, OCT. 29, 1980.  
 RECORDS AVAILABLE 1959-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| OCT. 29, 1980 | 128.14      | MAR. 30, 1981 | 128.11      |      |             |      |             |

304959091093001 LOCAL WELL NUMBER: EF-185

OWNER: E. LOUISIANA STATE HOSPITAL, (SEC. 45, T. 2S., R. 1E.) DRILLED INSTITUTIONAL ARTESIAN WELL IN ZONE 2 AQUIFER OF PLIOCENE-MIOCENE AGE, DIAM 14 TO 12 TO 10 IN, REPORTED DEPTH 1514 FT, SCREENED 1469-1514. MP LOWER EDGE OF 1-IN ACCESS PIPE, 1.48 FT ABOVE LSD.  
 LSD 228.00 FT NGVD.  
 HIGHEST WATER LEVEL 118.54 BELOW LSD, MAY 16, 1961,  
 LOWEST WATER LEVEL 195.53 BELOW LSD, MAR. 30, 1981.  
 RECORDS AVAILABLE 1961-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 29, 1980 | 188.75      | JAN. 19, 1981 | 187.69      | MAR. 30, 1981 | 195.53      | JULY 20, 1981 | 189.72      |

304309091083201 LOCAL WELL NUMBER: EF-223

OWNER: TOWN OF SLAUGHTER, (SEC. 7, T. 4S., R. 1E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("2,900-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 10 IN, DEPTH 2000 FT, SCREENED 1935-2000. MP TOP OF SANITARY SEAL, 1.00 FT ABOVE LSD.  
 LSD 135.00 FT NGVD.  
 HIGHEST WATER LEVEL 102.50 BELOW LSD, FEB. 6, 1978,  
 LOWEST WATER LEVEL 126.80 BELOW LSD, OCT. 30, 1980.  
 RECORDS AVAILABLE 1977-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 30, 1980 | 126.80      | JAN. 21, 1981 | 113.40      | MAR. 30, 1981 | 119.83      | JULY 21, 1981 | 118.13      |

GROUND-WATER LEVELS  
EAST FELICIANA PARISH

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305052091060001 LOCAL WELL NUMBER: EF-241

OWNER: P. CRAIN. (SEC. 27, T. 2S., R. 1E.) BORED DOMESTIC WATER-TABLE WELL IN QUATERNARY UPLAND DEPOSITS OF PLEISTOCENE AGE, DIAM 8 IN, DEPTH 96 FT, OPEN END CASING. MP TOP INSIDE EDGE OF 8-IN CONCRETE CASING, 0.60 FT ABOVE LSD.  
LSD 250.00 FT NGVD.  
HIGHEST WATER LEVEL 68.80 BELOW LSD, JUNE 7, 1978.  
LOWEST WATER LEVEL 73.48 BELOW LSD, MAY 7, 1979.  
RECORDS AVAILABLE 1974-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| OCT. 29, 1980 | 70.06       | MAR. 30, 1981 | 70.37       |      |             |      |             |

IBERVILLE PARISH

302920091311101 LOCAL WELL NUMBER: IB-9

OWNER: TOWN OF MARINGOUIN. (SEC. 29, T. 7S., R. 9E.) DRILLED UNUSED PUBLIC-SUPPLY WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN, DEPTH 1180 FT, SCREENED INTERVAL UNKNOWN. MP LOWER EDGE OF 1/2-IN HOLE IN SIDE OF CASING, 0.80 FT ABOVE LSD.  
LSD 23.00 FT NGVD.  
HIGHEST WATER LEVEL 30.00 ABOVE LSD, DEC. 27, 1951.  
LOWEST WATER LEVEL 31.40 BELOW LSD, APR. 15, 1981.  
RECORDS AVAILABLE 1951, 1971, 1975-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|--------------|-------------|---------------|-------------|------|-------------|------|-------------|
| NOV. 5, 1980 | 29.90       | APR. 15, 1981 | 31.40       |      |             |      |             |

302919091311101 LOCAL WELL NUMBER: IB-29

OWNER: TOWN OF MARINGOUIN. (SEC. 29, T. 7S., R. 9E.) DRILLED UNUSED PUBLIC-SUPPLY WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 6 IN, DEPTH 1964 FT, SCREENED 1880-1964. MP HOLE IN SANITARY SEAL, 1.60 FT ABOVE LSD.  
LSD 23.00 FT NGVD.  
HIGHEST WATER LEVEL 58.90 ABOVE LSD, DEC. 15, 1951.  
LOWEST WATER LEVEL 28.80 BELOW LSD, APR. 15, 1981.  
RECORDS AVAILABLE 1951, 1960, 1970, 1971, 1975-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|--------------|-------------|---------------|-------------|------|-------------|------|-------------|
| NOV. 5, 1980 | 27.55       | APR. 15, 1981 | 28.80       |      |             |      |             |

JEFFERSON DAVIS PARISH

301355092463001 LOCAL WELL NUMBER: JD-9

OWNER: WELSH CANAL CO. (SEC. 34, T. 9S., R. 4W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN, DEPTH 318 FT, SCREENED 238-318. MP LOWER LIP OF DISCHARGE PIPE, 4.55 FT ABOVE LSD.  
LSD 24.10 FT NGVD.  
HIGHEST WATER LEVEL 19.52 BELOW LSD, MAR. 29, 1943.  
LOWEST WATER LEVEL 95.00 BELOW LSD, JULY 21, 1980.  
RECORDS AVAILABLE 1938-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 22, 1980 | 76.34       | JAN. 21, 1981 | 65.73       | APR. 16, 1981 | 72.61       | AUG. 21, 1981 | 84.73       |
| NOV. 19       | 79.81       | FEB. 18       | 64.05       | JULY 21       | 82.75       | SEP. 23       | 82.76       |
| DEC. 24       | 67.94       | MAR. 24       | 71.30       |               |             |               |             |

302611092411201 LOCAL WELL NUMBER: JD-31

OWNER: R. J. HINE ESTATE. (SEC. 21, T. 7S., R. 3W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN, DEPTH 250 FT, SCREENED INTERVAL UNKNOWN. MP LOWER LIP OF DISCHARGE PIPE, 3.96 FT ABOVE LSD.  
LSD 50.00 FT NGVD.  
HIGHEST WATER LEVEL 80.06 BELOW LSD, MAR. 21, 1967.  
LOWEST WATER LEVEL 92.37 BELOW LSD, FEB. 19, 1971.  
RECORDS AVAILABLE 1966-72, 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 88.84       |      |             |      |             |      |             |

300518092492601 LOCAL WELL NUMBER: JD-33

OWNER: JOE PETITJEAN. (SEC. 18, T. 11S., R. 4W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 24 TO 12 IN, DEPTH 350 FT, SCREENED INTERVAL UNKNOWN. MP BOTTOM EDGE OF DISCHARGE PIPE, 4.75 FT ABOVE LSD.  
 LSD 7.18 FT NGVD.  
 HIGHEST WATER LEVEL 5.61 BELOW LSD, APR. 8, 1941,  
 LOWEST WATER LEVEL 41.15 BELOW LSD, APR. 25, 1956.  
 RECORDS AVAILABLE 1939-41, 1947-72, 1974-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 18, 1981 | 38.35          |      |                |      |                |      |                |

300236092543501 LOCAL WELL NUMBER: JD-222

OWNER: LACASSINE CO. (SEC. 32, T. 11S., R. 5W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN, DEPTH 300 FT, SCREENED INTERVAL UNKNOWN. MP EDGE OF CASING, AT LSD.  
 LSD 4.61 FT NGVD.  
 HIGHEST WATER LEVEL 6.15 BELOW LSD, MAY 8, 1946,  
 LOWEST WATER LEVEL 36.63 BELOW LSD, AUG. 25, 1965.  
 RECORDS AVAILABLE 1945-67, 1972, 1974-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 18, 1981 | 34.90          |      |                |      |                |      |                |

302054092461901 LOCAL WELL NUMBER: JD-317

OWNER: H. AGUILLARD. (SEC. 22, T. 8S., R. 4W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 20 TO 10 IN, DEPTH 289 FT, SCREENED 209-289. MP LOWER LIP OF DISCHARGE PIPE, 5.20 FT ABOVE LSD.  
 LSD 42.27 FT NGVD.  
 HIGHEST WATER LEVEL 48.99 BELOW LSD, MAR. 20, 1950,  
 LOWEST WATER LEVEL 84.67 BELOW LSD, FEB. 18, 1971.  
 RECORDS AVAILABLE 1948-69, 1971-72, 1974-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 18, 1981 | 81.25          |      |                |      |                |      |                |

301300092584503 LOCAL WELL NUMBER: JD-485A

OWNER: U. S. GEOL. SURVEY. (SEC. 4, T. 10S., R. 6W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 290 FT, SCREENED 270-290. MP TOP OF 4-IN CASING COLLAR, 3.00 FT ABOVE LSD.  
 LSD 21.36 FT NGVD.  
 HIGHEST WATER LEVEL 56.78 BELOW LSD, FEB. 20, 1980,  
 LOWEST WATER LEVEL 107.41 BELOW LSD, JULY 19, 1980.  
 RECORDS AVAILABLE 1978-CURRENT YEAR.

| DATE         | WATER<br>LEVEL | DATE         | WATER<br>LEVEL | DATE         | WATER<br>LEVEL | DATE         | WATER<br>LEVEL |
|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|
| OCT. 2, 1980 | 70.18H         | JAN. 5, 1981 | 62.08          | APR. 5, 1981 | 64.20          | JULY 5, 1981 | 79.64          |
| OCT. 5       | 69.58          | JAN. 10      | 65.20          | APR. 10      | 65.20          | JULY 10      | 76.20          |
| OCT. 10      | 68.71          | JAN. 15      | 63.18          | APR. 15      | 65.98          | JULY 15      | 76.32          |
| OCT. 15      | 68.02          | JAN. 20      | 62.32          | APR. 16      | 67.30H         | JULY 20      | 77.94          |
| OCT. 20      | 67.20          | JAN. 21      | 64.87H         | APR. 20      | 76.09          | JULY 21      | 78.04H         |
| OCT. 22      | 66.75H         | JAN. 25      | 62.22          | APR. 25      | 79.74          | JULY 25      | 79.24          |
| OCT. 25      | 66.29          | JAN. 31      | 61.96          | APR. 30      | 87.22          | JULY 31      | 75.01          |
| OCT. 31      | 65.65          | FEB. 5       | 62.17          | MAY 5        | 88.20          | AUG. 5       | 73.62          |
| NOV. 5       | 65.20          | FEB. 10      | 60.72          | MAY 10       | 93.86          | AUG. 10      | 73.57          |
| NOV. 10      | 64.64          | FEB. 15      | 60.39          | MAY 15       | 90.77          | AUG. 15      | 72.24          |
| NOV. 15      | 64.19          | FEB. 18      | 60.70H         | MAY 20       | 87.34          | AUG. 20      | 73.87          |
| NOV. 19      | 63.85H         | FEB. 20      | 60.51          | MAY 25       | 96.73          | AUG. 21      | 73.86H         |
| NOV. 20      | 63.82          | FEB. 24      | 60.34H         | MAY 26       | 93.69H         | AUG. 25      | 73.50          |
| NOV. 25      | 64.70          | FEB. 25      | 60.30          | MAY 31       | 90.47          | AUG. 31      | 72.54          |
| NOV. 30      | 63.33          | FEB. 28      | 60.09          | JUNE 5       | 82.53          | SEP. 5       | 71.52          |
| DEC. 5       | 64.09          | MAR. 5       | 59.53          | JUNE 10      | 79.03          | SEP. 10      | 72.78          |
| DEC. 10      | 63.44          | MAR. 10      | 60.10          | JUNE 15      | 77.88          | SEP. 15      | 72.36          |
| DEC. 15      | 63.01          | MAR. 15      | 61.20          | JUNE 20      | 88.68          | SEP. 20      | 72.53          |
| DEC. 20      | 62.68          | MAR. 20      | 62.21          | JUNE 22      | 88.78H         | SEP. 22      | 71.50H         |
| DEC. 24      | 62.48H         | MAR. 24      | 63.30H         | JUNE 25      | 88.19          | SEP. 25      | 70.95          |
| DEC. 25      | 62.48          | MAR. 25      | 64.76          | JUNE 30      | 82.85          | SEP. 30      | 70.35          |
| DEC. 31      | 61.95          | MAR. 31      | 64.75          |              |                |              |                |

See footnotes at end of table.

GROUND-WATER LEVELS  
JEFFERSON DAVIS PARISH

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302509092532101 LOCAL WELL NUMBER: JD-493

OWNER: PRESTON ASHFORD. (SEC. 28, T. 7S., R. 5W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 16 TO 8 IN, DEPTH 220 FT, SCREENED 160-220, MP LOWER LIP OF DISCHARGE PIPE, 6.10 FT ABOVE LSD.  
LSD 37.95 FT NGVD.  
HIGHEST WATER LEVEL 48.62 BELOW LSD, APR. 8, 1965,  
LOWEST WATER LEVEL 58.20 BELOW LSD, MAR. 8, 1977.  
RECORDS AVAILABLE 1965-72, 1974-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 18, 1981 | 56.20          |      |                |      |                |      |                |

LAFAYETTE PARISH

300600092041501 LOCAL WELL NUMBER: LF-437

OWNER: MRS. E. B. RICHARD AND MRS. E. S. VINCENT. (IRREG. SEC. 40, T. 11S., R. 4E.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, REPORTED DEPTH 150 FT, SCREENED 130-150, MP TOP OF 4-IN CASING, 1.45 FT ABOVE LSD.  
LSD 18.34 FT NGVD.  
HIGHEST WATER LEVEL 12.06 BELOW LSD, MAY 14, 1947,  
LOWEST WATER LEVEL 28.01 BELOW LSD, JUNE 24, 1975, MAR. 7, 1977.  
RECORDS AVAILABLE 1946-72, 1974-75, 1977-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 19, 1981 | 27.27          |      |                |      |                |      |                |

301407092000901 LOCAL WELL NUMBER: LF-516

OWNER: CITY OF LAFAYETTE. (IRREG. SEC. 101, T. 9S., R. 5E.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 2 IN, DEPTH 286 FT, SCREENED 271-286, MP TOP OF 4-IN CASING, 0.50 FT ABOVE LSD. WELL DESTROYED JULY 1981.  
LSD 40.37 FT NGVD.  
HIGHEST WATER LEVEL 34.13 BELOW LSD, MAR. 23, 1959,  
LOWEST WATER LEVEL 47.40 BELOW LSD, DEC. 27, 1979.  
RECORDS AVAILABLE 1958-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE         | WATER<br>LEVEL |
|---------------|----------------|---------------|----------------|---------------|----------------|--------------|----------------|
| OCT. 23, 1980 | 43.80          | JAN. 23, 1981 | 45.57          | MAR. 19, 1981 | 45.75          | MAY 27, 1981 | 46.35          |
| NOV. 20       | 45.56          | FEB. 19       | 45.52          | APR. 16       | 46.08          | JUNE 16      | 46.70          |
| DEC. 22       | 45.34          |               |                |               |                |              |                |

300911091581701 LOCAL WELL NUMBER: LF-556

OWNER: G. G. GONDON. (IRREG. SEC. 21, T. 10S., R. 5E.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, REPORTED DEPTH 104 FT, SCREENED 94-104, MP TOP OF 2-IN CASING, 1.40 FT ABOVE LSD.  
LSD 34.55 FT NGVD.  
HIGHEST WATER LEVEL 27.70 BELOW LSD, MAR. 23, 1966,  
LOWEST WATER LEVEL 34.24 BELOW LSD, FEB. 26, 1970.  
RECORDS AVAILABLE 1964-72, 1974-79, CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| FEB. 19, 1981 | 32.04          |      |                |      |                |      |                |

LIVINGSTON PARISH

302804090581802 LOCAL WELL NUMBER: LI-268

OWNER: CLIFF MACK. (SEC. 67, T. 7S., R. 2E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 1305 FT, SCREENED 1289-1305, MP TOP OF 2-IN CASING, 0.77 FT ABOVE LSD.  
LSD 37.00 FT NGVD.  
HIGHEST WATER LEVEL 3.53 BELOW LSD, JULY 1, 1957,  
LOWEST WATER LEVEL 61.58 BELOW LSD, MAR. 30, 1981.  
RECORDS AVAILABLE 1957-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|---------------|----------------|------|----------------|------|----------------|
| OCT. 27, 1980 | 61.13          | MAR. 30, 1981 | 61.58          |      |                |      |                |

## LOUISIANA - POINTE COUPEE PARISH

## LIVINGSTON PARISH

303034090380301 LOCAL WELL NUMBER: LI-52

OWNER: COY KINCHEN. (SEC. 20, T. 6S., R. 6E.) DRILLED DOMESTIC ARTESIAN WELL IN SAND ("1,700-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN, DEPTH 1865 FT, SCREENED 1825-1865. MP CENTERLINE OF 3/4-IN TEE, 1.20 FT ABOVE LSD, LSD 46.00 FT NGVD.  
 HIGHEST WATER LEVEL 116.20 ABOVE LSD, NOV. 30, 1950,  
 LOWEST WATER LEVEL 49.20 ABOVE LSD, MAY 4, 1979.  
 RECORDS AVAILABLE 1950-CURRENT YEAR.

| DATE         | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|--------------|----------------|---------------|----------------|------|----------------|------|----------------|
| NOV. 3, 1980 | 52.20          | MAR. 30, 1981 | 52.70          |      |                |      |                |

302826090344901 LOCAL WELL NUMBER: LI-54

OWNER: ST. MARGARET'S CATHOLIC CHURCH. (SEC. 2, T. 7S., R. 6E.) DRILLED DOMESTIC ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 1/2 IN, DEPTH 2144 FT, SCREENED 2104-2144. MP CENTERLINE OF 2-IN TEE, 0.80 FT ABOVE LSD, LSD 33.00 FT NGVD.  
 HIGHEST WATER LEVEL 121.80 ABOVE LSD, NOV. 30, 1954, JAN. 10, 1955, FEB. 1, 1955,  
 LOWEST WATER LEVEL 65.80 ABOVE LSD, NOV. 2, 1978.  
 RECORDS AVAILABLE 1954-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE         | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|--------------|----------------|------|----------------|------|----------------|
| OCT. 31, 1980 | 68.80          | APR. 1, 1981 | 69.80          |      |                |      |                |

302959090563401 LOCAL WELL NUMBER: LI-92

OWNER: CITY OF DENHAM SPRINGS. (SEC. 48, T. 6S., R. 3E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 10 IN, DEPTH 2100 FT, SCREENED INTERVAL UNKNOWN. MP TOP EDGE OF 1/2-IN NIPPLE, 0.80 FT ABOVE LSD, LSD 51.00 FT NGVD.  
 HIGHEST WATER LEVEL 35.05 BELOW LSD, NOV. 14, 1977,  
 LOWEST WATER LEVEL 70.50 BELOW LSD, OCT. 27, 1980.  
 RECORDS AVAILABLE 1975-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL |
|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|
| OCT. 27, 1980 | 70.50          | JAN. 23, 1981 | 69.70          | MAR. 30, 1981 | 69.20          | JULY 27, 1981 | 70.30          |

302956090504601 LOCAL WELL NUMBER: LI-113

OWNER: W. K. CORBURN. (SEC. 30, T. 6S., R. 4E.) DRILLED DOMESTIC ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 3 IN, REPORTED DEPTH 1300 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF COLLAR ABOVE VALVE, 1.50 FT ABOVE LSD, LSD 48.00 FT NGVD.  
 HIGHEST WATER LEVEL 9.56 BELOW LSD, MAY 11, 1970,  
 LOWEST WATER LEVEL 15.65 BELOW LSD, MAR. 30, 1981.  
 RECORDS AVAILABLE 1966-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|---------------|----------------|------|----------------|------|----------------|
| OCT. 27, 1980 | 15.40          | MAR. 30, 1981 | 15.65          |      |                |      |                |

## POINTE COUPEE PARISH

304939091422101 LOCAL WELL NUMBER: PC-39

OWNER: C. FLINT. (SEC. 13, T. 3S., R. 7E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 2 IN, REPORTED DEPTH 460 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF REDUCER AT WELL, 1.30 FT ABOVE LSD, LSD 41.00 FT NGVD.  
 HIGHEST WATER LEVEL 3.19 ABOVE LSD, MAY 23, 1973,  
 LOWEST WATER LEVEL 26.64 BELOW LSD, DEC. 4, 1963.  
 RECORDS AVAILABLE 1961, 1963-64, 1966-CURRENT YEAR.

| DATE         | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|--------------|----------------|---------------|----------------|------|----------------|------|----------------|
| NOV. 5, 1980 | 24.10          | APR. 15, 1981 | 21.80          |      |                |      |                |

See footnotes at end of table.



## GROUND-WATER LEVELS

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## POINTE COUPEE PARISH

304645091434901 LOCAL WELL NUMBER: PC-49

OWNER: U. S. GEOL. SURVEY. (SEC. 32, T. 35., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLISTOCENE AGE, DIAM 4 IN, DEPTH 137 FT, SCREENED 132-137. MP TOP OF 4-IN CASING, 1.00 FT ABOVE LSD.  
 LSD 36.00 FT NGVD.  
 HIGHEST WATER LEVEL 0.59 BELOW LSD, MAR. 29, 1962,  
 LOWEST WATER LEVEL 28.95 BELOW LSD, NOV. 4, 1963.  
 RECORDS AVAILABLE 1955-68, 1973-CURRENT YEAR.

| DATE         | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|--------------|----------------|---------------|----------------|------|----------------|------|----------------|
| NOV. 5, 1980 | 27.40          | APR. 15, 1981 | 24.30          |      |                |      |                |

303556091234001 LOCAL WELL NUMBER: PC-66

OWNER: MRS. ST. GEORGE HINES. (SEC. 48, T. 55., R. 11E.) DRILLED DOMESTIC ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 IN, REPORTED DEPTH 1530 FT, SCREENED 1490-1530. MP TOP OF SANITARY SEAL, 2.30 FT ABOVE LSD.  
 LSD 33.00 FT NGVD.  
 HIGHEST WATER LEVEL 33.79 BELOW LSD, JUNE 16, 1970,  
 LOWEST WATER LEVEL 59.30 BELOW LSD, APR. 15, 1981.  
 RECORDS AVAILABLE 1970, 1972-CURRENT YEAR.

| DATE         | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|--------------|----------------|---------------|----------------|------|----------------|------|----------------|
| NOV. 5, 1980 | 58.75          | APR. 15, 1981 | 59.30          |      |                |      |                |

303402091325501 LOCAL WELL NUMBER: PC-70

OWNER: THEO H. GLAZIER, SR. (SEC. 16, T. 6S., R. 9E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 IN, REPORTED DEPTH 2294 FT, SCREENED 2259-2294. MP CENTERLINE OF TFE, 0.80 FT ABOVE LSD.  
 LSD 26.00 FT NGVD.  
 HIGHEST WATER LEVEL 69.50 ABOVE LSD, JULY 15, 1960,  
 LOWEST WATER LEVEL 8.20 ABOVE LSD, NOV. 5, 1980.  
 RECORDS AVAILABLE 1960-CURRENT YEAR.

| DATE           | WATER<br>LEVEL | DATE            | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|----------------|----------------|-----------------|----------------|------|----------------|------|----------------|
| NOV. 5, 1980 + | 8.20           | APR. 15, 1981 + | 8.50           |      |                |      |                |

303357091330401 LOCAL WELL NUMBER: PC-138

OWNER: VILLAGE OF LIVONIA. (SEC. 16, T. 6S., R. 9E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 1/2 IN, REPORTED DEPTH 1637 FT, SCREENED 1617-1637. MP TOP OF 3/4-IN PLUG IN TOP OF WELL, 1.56 FT ABOVE LSD.  
 LSD 27.00 FT NGVD.  
 HIGHEST WATER LEVEL 16.64 BELOW LSD, MAY 23, 1973,  
 LOWEST WATER LEVEL 34.69 BELOW LSD, APR. 15, 1981.  
 RECORDS AVAILABLE 1972-CURRENT YEAR.

| DATE         | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|--------------|----------------|---------------|----------------|------|----------------|------|----------------|
| NOV. 5, 1980 | 32.79          | APR. 15, 1981 | 34.69          |      |                |      |                |

305023091393901 LOCAL WELL NUMBER: PC-143

OWNER: U. S. GEOL. SURVEY. (SEC. 37, T. 35., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 IN, DEPTH 1228 FT, SCREENED 1218-1228. MP 3/8-IN HOLE IN 2-IN PLUG ATOP WELL, 2.50 FT ABOVE LSD.  
 LSD 41.00 FT NGVD.  
 HIGHEST WATER LEVEL 18.60 ABOVE LSD, APR. 17, 1968,  
 LOWEST WATER LEVEL 4.00 BELOW LSD, APR. 15, 1981.  
 RECORDS AVAILABLE 1968-CURRENT YEAR.

| DATE         | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|--------------|----------------|---------------|----------------|------|----------------|------|----------------|
| NOV. 5, 1980 | 3.75           | APR. 15, 1981 | 4.00           |      |                |      |                |

See footnotes at end of table.



## LOUISIANA - POINTE COUPEE PARISH

305023091393902 LOCAL WELL NUMBER: PC-144

OWNER: U. S. GEOL. SURVEY. (SEC. 37, T. 35., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 IN, DEPTH 835 FT, SCREENED 825-835. MP CENTER OF GAGE IN BUSHING ATOP CASING, 2.66 FT ABOVE LSD.  
 LSD 41.00 FT NGVD.  
 HIGHEST WATER LEVEL 12.20 ABOVE LSD, APR. 17, 1968.  
 LOWEST WATER LEVEL 5.79 BELOW LSD, APR. 15, 1981.  
 RECORDS AVAILABLE 1968-CURRENT YEAR.

| DATE         | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|--------------|----------------|---------------|----------------|------|----------------|------|----------------|
| NOV. 5, 1980 | 5.34           | APR. 15, 1981 | 5.79           |      |                |      |                |

303835091202401 LOCAL WELL NUMBER: PC-146

OWNER: GLYNN WATER WORKS. (SEC. 56, T. 55., R. 11E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 IN, DEPTH 1785 FT, SCREENED 1765-1785. MP TOP OF SANITARY SEAL, 1.15 FT ABOVE LSD.  
 LSD 33.00 FT NGVD.  
 HIGHEST WATER LEVEL 4.95 BELOW LSD, JUN. 20, 1974.  
 LOWEST WATER LEVEL 25.25 BELOW LSD, NOV. 5, 1980.  
 RECORDS AVAILABLE 1972-CURRENT YEAR.

| DATE         | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|--------------|----------------|---------------|----------------|------|----------------|------|----------------|
| NOV. 5, 1980 | 25.25          | APR. 15, 1981 | 22.95          |      |                |      |                |

303538091232501 LOCAL WELL NUMBER: PC-154

OWNER: ALMA PLANTATION. (SEC. 4B, T. 55., R. 11F.) DRILLED INDUSTRIAL ARTESIAN WELL IN SAND ("1,700-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 12 IN, DEPTH 1263 FT, SCREENED 1174-1228, 1237-1263. MP 3/4-IN PLUG IN SANITARY SEAL, 1.16 FT ABOVE LSD.  
 LSD 36.00 FT NGVD.  
 HIGHEST WATER LEVEL 37.84 BELOW LSD, AUG. 4, 1975.  
 LOWEST WATER LEVEL 59.44 BELOW LSD, JAN. 14, 1980.  
 RECORDS AVAILABLE 1972-73, 1975-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|------|----------------|------|----------------|------|----------------|
| APR. 15, 1981 | 58.44          |      |                |      |                |      |                |

303250091365001 LOCAL WELL NUMBER: PC-155

OWNER: JOHN BLANCHARD. (SEC. 31, T. 65., R. 8E.) DRILLED DOMESTIC ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN, REPORTED DEPTH 990 FT, SCREENED 970-990. MP TOP OF BOLT HOLE ON NW SIDE OF SANITARY SEAL, 0.35 FT ABOVE LSD.  
 LSD 25.00 FT NGVD.  
 HIGHEST WATER LEVEL 19.20 BELOW LSD, AUG. 5, 1975.  
 LOWEST WATER LEVEL 29.85 BELOW LSD, APR. 15, 1981.  
 RECORDS AVAILABLE 1972-CURRENT YEAR.

| DATE         | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|--------------|----------------|---------------|----------------|------|----------------|------|----------------|
| NOV. 5, 1980 | 27.80          | APR. 15, 1981 | 29.85          |      |                |      |                |

303735091211701 LOCAL WELL NUMBER: PC-156

OWNER: MRS. EMMA MOUNGER. (SEC. 50, T. 55., R. 11E.) DRILLED DOMESTIC ARTESIAN WELL IN MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, ESTIMATED DEPTH 180 FT, SCREENED INTERVAL UNKNOWN. MP 1/2-IN HOLE IN SANITARY SEAL, 0.60 FT ABOVE LSD.  
 LSD 35.00 FT NGVD.  
 HIGHEST WATER LEVEL 6.80 BELOW LSD, APR. 17, 1973.  
 LOWEST WATER LEVEL 23.55 BELOW LSD, NOV. 19, 1976.  
 RECORDS AVAILABLE 1972-CURRENT YEAR.

| DATE         | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|--------------|----------------|---------------|----------------|------|----------------|------|----------------|
| NOV. 5, 1980 | 23.00          | APR. 15, 1981 | 21.00          |      |                |      |                |

## GROUND-WATER LEVELS

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## ST. CHARLES PARISH

300022090241001 LOCAL WELL NUMBER: SC-9

OWNER: SHELL OIL CO. (SEC. 6, T. 12S., R. 8E.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 24 IN, DEPTH 808 FT, SCREENED 673-808, MP TOP OF COVER PLATE, AT LSD.

LSD 4.79 FT NGVD.

HIGHEST WATER LEVEL 12.40 BELOW LSD, JAN. 19, 1950.

LOWEST WATER LEVEL 39.98 BELOW LSD, SEP. 14, 1953.

RECORDS AVAILABLE 1943, 1949-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|--------------|-------------|---------------|-------------|---------------|-------------|
| NOV. 4, 1980  | 28.95       | MAR. 2, 1981 | 22.58       | JUNE 18, 1981 | 27.24       | AUG. 27, 1981 | 28.25       |
| DEC. 11       | 28.82       | APR. 9       | 27.45       | JULY 29       | 28.29       | SEP. 30       | 28.20       |
| JAN. 22, 1981 | 28.93       | MAY 11, 1981 | 27.15       |               |             |               |             |

300022090241002 LOCAL WELL NUMBER: SC-14

OWNER: SHELL OIL CO. (SEC. 6, T. 12S., R. 8E.) DRILLED UNUSED ARTESIAN WELL IN NORCO AQUIFER OF PLEISTOCENE AGE, DIAM 18 IN, DEPTH 404 FT, SCREENED 324-404, MP BOTTOM EDGE OF DOOR ON CULVERT, 1.35 FT ABOVE LSD.

LSD 5.51 FT NGVD.

HIGHEST WATER LEVEL 27.21 BELOW LSD, DEC. 15, 1979.

LOWEST WATER LEVEL 90.74 BELOW LSD, SEP. 17, 1957.

RECORDS AVAILABLE 1956-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL |
|--------------|-------------|---------------|-------------|---------------|-------------|--------------|-------------|
| OCT. 3, 1980 | 41.98H      | DEC. 11, 1980 | 39.13H      | MAR. 25, 1981 | 36.72       | JULY 5, 1981 | 39.71       |
| OCT. 5       | 42.04       | DEC. 15       | 39.07       | MAR. 31       | 36.74       | JULY 10      | 39.40       |
| OCT. 10      | 41.93       | DEC. 20       | 39.36       | APR. 5        | 37.72       | JULY 15      | 39.48       |
| OCT. 15      | 41.92       | DEC. 25       | 39.38       | APR. 9        | 37.77H      | JULY 27      | 39.76H      |
| OCT. 20      | 41.96       | DEC. 31       | 39.05       | APR. 10       | 37.26       | JULY 31      | 39.65       |
| OCT. 25      | 41.45       | JAN. 5, 1981  | 39.45       | APR. 15       | 37.27       | AUG. 5       | 39.15       |
| OCT. 31      | 40.74       | JAN. 10       | 39.02       | APR. 20       | 37.90       | AUG. 10      | 38.85       |
| NOV. 4       | 40.73H      | JAN. 15       | 39.12       | APR. 25       | 37.18       | AUG. 15      | 38.96       |
| NOV. 5       | 41.04       | JAN. 20       | 38.69       | APR. 30       | 37.10       | AUG. 20      | 38.97       |
| NOV. 10      | 40.65       | JAN. 22       | 38.78H      | MAY 5         | 36.72       | AUG. 25      | 38.72       |
| NOV. 15      | 39.87       | JAN. 25       | 38.69       | MAY 10        | 36.18       | AUG. 27      | 38.51H      |
| NOV. 20      | 39.83       | MAR. 2        | 38.13H      | MAY 11        | 36.23H      | AUG. 31      | 38.43       |
| NOV. 25      | 39.52       | MAR. 5        | 37.90       | JUNE 18       | 43.98H      | SEP. 5       | 38.55       |
| NOV. 30      | 39.40       | MAR. 10       | 37.56       | JUNE 20       | 42.80       | SEP. 10      | 38.63       |
| DEC. 5       | 36.46       | MAR. 15       | 37.41       | JUNE 25       | 43.83       | SEP. 30      | 43.55H      |
| DEC. 10      | 39.12       | MAR. 20       | 37.52       | JUNE 30       | 44.29       |              |             |

295635090193701 LOCAL WELL NUMBER: SC-24

OWNER: INTL. TANK TERMINAL. (SEC. 40, T. 13S., R. 9E.) DRILLED UNUSED ARTESIAN WELL IN NORCO AQUIFER OF PLEISTOCENE AGE, DIAM 18 IN, DEPTH 492 FT, SCREENED 439-492, MP TOP EDGE OF HOLE IN STEEL PLATE OVER TOP OF WELL, 2.80 FT ABOVE LSD (SINCE 11/4/80).

LSD 12.00 FT NGVD.

HIGHEST WATER LEVEL 12.44 BELOW LSD, APR. 20, 1976.

LOWEST WATER LEVEL 29.45 BELOW LSD, NOV. 4, 1965.

RECORDS AVAILABLE 1960-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL |
|--------------|-------------|--------------|-------------|---------------|-------------|------|-------------|
| NOV. 4, 1980 | 17.84       | APR. 7, 1981 | 17.57       | SEP. 30, 1981 | 17.97       |      |             |

295556090214201 LOCAL WELL NUMBER: SC-80

OWNER: AMBROSE CHAMPAGNE. (SEC. 15, T. 13S., R. 21E.) DRILLED UNUSED ARTESIAN WELL IN GRAMERCY AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 256 FT, SCREENED INTERVAL UNKNOWN, MP TOP OF FITTING IN TOP OF TEE ATOP CASING, 0.90 FT ABOVE LSD.

LSD 13.00 FT NGVD.

HIGHEST WATER LEVEL 8.01 BELOW LSD, MAY 21, 1979.

LOWEST WATER LEVEL 28.40 BELOW LSD, JAN. 30, 1957.

RECORDS AVAILABLE 1957-61, 1963, 1965-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL |
|--------------|-------------|--------------|-------------|---------------|-------------|------|-------------|
| NOV. 3, 1980 | 13.34       | APR. 7, 1981 | 13.14       | SEP. 30, 1981 | 13.75       |      |             |

See footnotes at end of table.

## LOUISIANA - ST. HELENA PARISH

## ST. CHARLES PARISH

295950090283001 LOCAL WELL NUMBER: SC-82

OWNER: LA. POWER & LIGHT CO. (SEC. 26, T. 12S., R. 20E.) DRILLED UNUSED ARTESIAN WELL IN NORCO AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 373 FT, SCREENED INTERVAL UNKNOWN, MP TOP EDGE OF HOLE IN 4-IN CAP AT TOP OF 4-IN CASING EXTENSION, 4.69 FT ABOVE LSD.

LSD 12.00 FT NGVD.

HIGHEST WATER LEVEL 17.63 BELOW LSD, MAY 21, 1979.

LOWEST WATER LEVEL 36.34 BELOW LSD, NOV. 4, 1958.

RECORDS AVAILABLE 1957-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL |
|--------------|-------------|--------------|-------------|---------------|-------------|------|-------------|
| NOV. 3, 1980 | 23.09       | APR. 7, 1981 | 23.07       | SEP. 30, 1981 | 23.00       |      |             |

295633090193101 LOCAL WELL NUMBER: SC-102

OWNER: U. S. GEOL. SURVEY. (SEC. 40, T. 13S., R. 9E.) BORED OBSERVATION ARTESIAN WELL IN POINT-BAR DEPOSITS OF HOLOCENE AGE, DIAM 1 1/4 IN, DEPTH 62.5 FT, SCREENED 60-62.5. MP TOP OF CASING, AT LSD.

LSD 12.00 FT NGVD.

HIGHEST WATER LEVEL 1.75 ABOVE LSD, MAY 18, 1973.

LOWEST WATER LEVEL 21.71 BELOW LSD, APR. 7, 1981.

RECORDS AVAILABLE 1960-66, 1968-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL |
|--------------|-------------|--------------|-------------|---------------|-------------|------|-------------|
| NOV. 4, 1980 | 8.00        | APR. 7, 1981 | 21.71       | SEP. 30, 1981 | 13.60       |      |             |

295747090242501 LOCAL WELL NUMBER: SC-174

OWNER: U. S. GEOL. SURVEY. (SEC. 17, T. 13S., R. 20E.) DRILLED OBSERVATION ARTESIAN WELL IN GRAMERCY AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 272 FT, SCREENED 262-272. MP TOP OF 2-IN CASING COLLAR, AT LSD.

LSD 14.00 FT NGVD.

HIGHEST WATER LEVEL 15.53 BELOW LSD, JULY 27, 1981.

LOWEST WATER LEVEL 17.08 BELOW LSD, NOV. 3, 1980.

RECORDS AVAILABLE 1980-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|--------------|-------------|---------------|-------------|---------------|-------------|
| NOV. 3, 1980  | 17.08       | APR. 7, 1981 | 16.63       | JULY 27, 1981 | 15.53       | SEP. 30, 1981 | 16.83       |
| JAN. 23, 1981 | 16.58       |              |             |               |             |               |             |

## ST. HELENA PARISH

304051090385401 LOCAL WELL NUMBER: SH-7

OWNER: ST. HELENA WATER SYSTEMS, INC. (SEC. 51, T. 4S., R. 6E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN AMITE AQUIFER (ZONE 3) OF MIOCENE AGE, DIAM 4 IN, DEPTH 2082 FT, SCREENED 2052-2082. MP HOLE IN SANITARY SEAL, 2.00 FT ABOVE LSD.

LSD 130.00 FT NGVD.

HIGHEST WATER LEVEL 39.10 ABOVE LSD, MAR. 18, 1955.

LOWEST WATER LEVEL 24.35 BELOW LSD, NOV. 6, 1979.

RECORDS AVAILABLE 1955-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|--------------|-------------|------|-------------|------|-------------|
| OCT. 28, 1980 | 22.30       | APR. 3, 1981 | 21.15       |      |             |      |             |

305300090502701 LOCAL WELL NUMBER: SH-9

OWNER: TWO-R RANCH. (SEC. 73, T. 2S., R. 4E.) DRILLED DOMESTIC AND STOCK ARTESIAN WELL IN ZONE 3 SAND OF MIOCENE AGE, DIAM 4 IN, DEPTH 2135 FT, SCREENED 2106-2135. MP 3/8-IN HOLE IN TOP OF WELL SEAL, 1.28 FT ABOVE LSD.

LSD 165.00 FT NGVD.

HIGHEST WATER LEVEL 54.56 BELOW LSD, SEP. 13, 1960.

LOWEST WATER LEVEL 80.42 BELOW LSD, APR. 3, 1981.

RECORDS AVAILABLE 1960-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|--------------|-------------|------|-------------|------|-------------|
| OCT. 28, 1980 | 78.27       | APR. 3, 1981 | 80.42       |      |             |      |             |

## GROUND-WATER LEVELS

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## ST. JAMES PARISH

295906090502001 LOCAL WELL NUMBER: SJ-24

OWNER: EXXON CO., U.S.A. (SEC. 8, T. 12S., R. 16E.) DRILLED STOCK ARTESIAN WELL IN GRAMERCY AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 281 FT, SCREENED INTERVAL UNKNOWN, MP TOP INSIDE EDGE OF OPENING IN TEE, 0.99 FT ABOVE LSD.  
 LSD 11.79 FT NGVD.  
 HIGHEST WATER LEVEL 3.75 ABOVE LSD, MAY 17, 1973.  
 LOWEST WATER LEVEL 25.50 BELOW LSD, AUG. 6, 1957.  
 RECORDS AVAILABLE 1957-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL |
|--------------|-------------|--------------|-------------|---------------|-------------|------|-------------|
| NOV. 3, 1980 | 15.16       | APR. 7, 1981 | 7.49        | SEP. 30, 1981 | 7.54        |      |             |

300449090520201 LOCAL WELL NUMBER: SJ-41

OWNER: HELVETIA SUGAR COOP., INC. (SEC. 38, T. 11S., R. 3E.) DRILLED INDUSTRIAL ARTESIAN WELL IN NORCO AQUIFER OF PLEISTOCENE AGE, DIAM 8 IN, DEPTH 441 FT, SCREENED 399-441, MP TOP OF 8-IN CASING COLLAR, 1.00 FT ABOVE LSD.  
 LSD 17.80 FT NGVD.  
 HIGHEST WATER LEVEL 0.07 BELOW LSD, MAY 18, 1979.  
 LOWEST WATER LEVEL 15.65 BELOW LSD, OCT. 15, 1973.  
 RECORDS AVAILABLE 1948, 1958-64, 1966-73, 1975-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|--------------|-------------|------|-------------|------|-------------|------|-------------|
| APR. 9, 1981 | 13.50       |      |             |      |             |      |             |

300024090433501 LOCAL WELL NUMBER: SJ-R6

OWNER: DELPHINE PLANTING CO. (SEC. 20, T. 12S., R. 17E.) DRILLED UNUSED ARTESIAN WELL IN GRAMERCY AQUIFER OF PLEISTOCENE AGE, DIAM 3 IN, DEPTH 290 FT, SCREENED 280-290, MP TOP OF 2-IN NIPPLE EXTENDING FROM TOP OF CASING COLLAR, 1.44 FT ABOVE LSD.  
 LSD 19.30 FT NGVD.  
 HIGHEST WATER LEVEL 3.79 BELOW LSD, MAY 21, 1979.  
 LOWEST WATER LEVEL 19.00 BELOW LSD, OCT. 31, 1963.  
 RECORDS AVAILABLE 1960-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|--------------|-------------|---------------|-------------|---------------|-------------|
| NOV. 3, 1980  | 16.97       | APR. 7, 1981 | 16.18       | JULY 27, 1981 | 13.47       | SEP. 30, 1981 | 16.32       |
| JAN. 23, 1981 | 17.73       |              |             |               |             |               |             |

300433090403701 LOCAL WELL NUMBER: SJ-186

OWNER: U. S. GEOL. SURVEY. (SEC. 43, T. 11S., R. 5E.) DRILLED OBSERVATION ARTESIAN WELL IN GRAMERCY AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 230 FT, SCREENED 220-230, MP TOP OF 2-IN CASING, 1.00 FT ABOVE LSD.  
 LSD 4.00 FT NGVD.  
 HIGHEST WATER LEVEL 3.82 ABOVE LSD, MAY 9, 1979.  
 LOWEST WATER LEVEL 8.61 BELOW LSD, NOV. 9, 1978.  
 RECORDS AVAILABLE 1974-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|--------------|-------------|---------------|-------------|---------------|-------------|
| DEC. 11, 1980 | 7.80        | APR. 9, 1981 | 7.05        | JUNE 18, 1981 | 3.26        | AUG. 27, 1981 | 5.70        |
| JAN. 22, 1981 | 8.16        | MAY 11       | 5.66        | JULY 27       | 4.53        | SEP. 29       | 7.02        |
| MAR. 2        | 7.50        |              |             |               |             |               |             |

## ST. JOHN THE BAPTIST PARISH

300240090265601 LOCAL WELL NUMBER: SJ-B-17

OWNER: J. ESPARROS. (SEC. 54, T. 11S., R. 7E.) DRILLED UNUSED ARTESIAN WELL IN NORCO AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 310 FT, SCREENED INTERVAL UNKNOWN, MP TOP OF HOLE IN PLATE, 1.00 FT ABOVE LSD.  
 LSD 5.76 FT NGVD.  
 HIGHEST WATER LEVEL 16.60 BELOW LSD, JAN. 28, 1980.  
 LOWEST WATER LEVEL 41.59 BELOW LSD, JAN. 23, 1957.  
 RECORDS AVAILABLE 1956-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|--------------|-------------|---------------|-------------|---------------|-------------|
| NOV. 5, 1980  | 22.00       | APR. 7, 1981 | 21.20       | JULY 27, 1981 | 22.08       | SEP. 30, 1981 | 22.40       |
| JAN. 22, 1981 | 21.89       |              |             |               |             |               |             |

300420090344101 LOCAL WELL NUMBER: SJR-53

OWNER: GULF STATES LAND AND INDUSTRIES, INC. (SEC. 32, T. 11S., R. 6E.) DRILLED UNUSED ARTESIAN WELL IN NORCO AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 345 FT, SCREENED 305-345, MP TOP OF 3 X 3/4-IN RUSHING, 1.57 FT ABOVE LSD.  
 LSD 7.90 FT NGVD.  
 HIGHEST WATER LEVEL 3.09 BELOW LSD, MAY 17, 1973.  
 LOWEST WATER LEVEL 15.12 BELOW LSD, OCT. 6, 1970.  
 RECORDS AVAILABLE 1960-71, 1973-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL |
|--------------|-------------|--------------|-------------|---------------|-------------|------|-------------|
| NOV. 5, 1980 | 13.05       | APR. 9, 1981 | 11.51       | SEP. 30, 1981 | 11.91       |      |             |

300232090390405 LOCAL WELL NUMBER: SJB-144

OWNER: U. S. GEOL. SURVEY. (SEC. 18, T. 12S., R. 18E.) DRILLED OBSERVATION ARTESIAN WELL IN OLDER DELTAIC DEPOSITS OF PLEISTOCENE AGE, DIAM 4 TO 2 IN, DEPTH 170 FT, SCREENED 158-170, MP TOP OF 4-IN CAP, 3.22 FT ABOVE LSD.  
 LSD 17.75 FT NGVD.  
 HIGHEST WATER LEVEL 3.15 ABOVE LSD, MAY 17, 1973.  
 LOWEST WATER LEVEL 15.37 BELOW LSD, DEC. 11, 1963.  
 RECORDS AVAILABLE 1962-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|--------------|-------------|---------------|-------------|---------------|-------------|
| NOV. 3, 1980  | 14.18       | APR. 7, 1981 | 13.26       | JULY 27, 1981 | 10.76       | SEP. 30, 1981 | 13.80       |
| JAN. 23, 1981 | 15.28       |              |             |               |             |               |             |

300234090390301 LOCAL WELL NUMBER: SJR-145

OWNER: U. S. GEOL. SURVEY. (SEC. 18, T. 12S., R. 18E.) DRILLED OBSERVATION ARTESIAN WELL IN GRAMERCY AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 2 IN, DEPTH 315 FT, SCREENED 305-315, MP TOP OF 4-IN CAP, 2.60 FT ABOVE LSD.  
 LSD 17.71 FT NGVD.  
 HIGHEST WATER LEVEL 3.91 BELOW LSD, MAY 17, 1973.  
 LOWEST WATER LEVEL 21.34 BELOW LSD, JAN. 13, 1964.  
 RECORDS AVAILABLE 1962-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|--------------|-------------|---------------|-------------|---------------|-------------|
| NOV. 3, 1980  | 19.14       | APR. 7, 1981 | 18.10       | JULY 27, 1981 | 16.26       | SEP. 30, 1981 | 18.90       |
| JAN. 23, 1981 | 19.84       |              |             |               |             |               |             |

300348090290801 LOCAL WELL NUMBER: SJB-156

OWNER: ST. JOHN THE BAPTIST WATERWORKS DISTRICT NO. 3. (SEC. 27, T. 11S., R. 7E.) DRILLED UNUSED ARTESIAN WELL IN NORCO AQUIFER OF PLEISTOCENE AGE, DIAM 8 IN, DEPTH 359 FT, SCREENED 319-359, MP TOP INSIDE EDGE OF 1 1/4-IN COUPLING, 1.70 FT ABOVE LSD.  
 LSD 10.00 FT NGVD.  
 HIGHEST WATER LEVEL 22.36 BELOW LSD, JAN. 29, 1980.  
 LOWEST WATER LEVEL 28.05 BELOW LSD, NOV. 9, 1978.  
 RECORDS AVAILABLE 1976-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|--------------|-------------|---------------|-------------|---------------|-------------|
| NOV. 5, 1980  | 27.24       | APR. 9, 1981 | 27.59       | JULY 27, 1981 | 27.00       | SEP. 30, 1981 | 27.04       |
| JAN. 22, 1981 | 27.00       |              |             |               |             |               |             |

300310090281702 LOCAL WELL NUMBER: SJR-163B

OWNER: GUY REINE. (SEC. 30, T. 11S., R. 7E.) DRILLED DOMESTIC ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 2 IN, DEPTH 635 FT, SCREENED 625-635, MP TOP OF 2-IN NIPPLE, 4.56 FT ABOVE LSD.  
 LSD 10.00 FT NGVD.  
 HIGHEST WATER LEVEL 21.05 BELOW LSD, MAY 22, 1973.  
 LOWEST WATER LEVEL 23.87 BELOW LSD, SEP. 30, 1981.  
 RECORDS AVAILABLE 1971-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|--------------|-------------|---------------|-------------|---------------|-------------|
| NOV. 5, 1980  | 23.67       | APR. 9, 1981 | 23.11       | JULY 27, 1981 | 23.74       | SEP. 30, 1981 | 23.87       |
| JAN. 22, 1981 | 23.24       |              |             |               |             |               |             |



## GROUND-WATER LEVELS

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## ST. MARTIN PARISH

300506091545201 LOCAL WELL NUMBER: SMN-20

OWNER: SMEDES BROS. SUGAR MILL, INC. (IRREG. SEC. 13, T. 11S., R. 5E.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 10 IN, REPORTED DEPTH 285 FT, SCREENED INTERVAL UNKNOWN, MP TOP OF 10-IN COLLAR, 1.20 FT ABOVE LSD.  
 LSD 30.57 FT NGVD.  
 HIGHEST WATER LEVEL 16.57 BELOW LSD, JULY 9, 1946.  
 LOWEST WATER LEVEL 29.89 BELOW LSD, FEB. 18, 1981.  
 RECORDS AVAILABLE 1944-72, 1974-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 29.89       |      |             |      |             |      |             |

301308091521001 LOCAL WELL NUMBER: SMN-103

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 88, T. 9S., R. 6E.) DRILLED OBSERVATION ARTESIAN WELL IN ATCHAFALAYA AQUIFER OF PLEISTOCENE AGE, DIAM 2 TO 1 1/2 IN, DEPTH 145 FT, SCREENED 135-145, MP TOP OF 2-IN CASING, 2.10 FT ABOVE LSD.  
 LSD 23.93 FT NGVD.  
 HIGHEST WATER LEVEL 12.65 BELOW LSD, FEB. 27, 1974.  
 LOWEST WATER LEVEL 21.96 BELOW LSD, NOV. 19, 1969.  
 RECORDS AVAILABLE 1964-77, 1979, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 20.64       | MAR. 12, 1981 | 21.40       |      |             |      |             |

301304091424001 LOCAL WELL NUMBER: SMN-108

OWNER: U. S. GEOL. SURVEY. (SEC. 36, T. 9S., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 505 FT, SCREENED 500-505, MP TOP OF 2-IN CASING, 2.72 FT ABOVE LSD.  
 LSD 11.34 FT NGVD.  
 HIGHEST WATER LEVEL 3.54 ABOVE LSD, APR. 13, 1973.  
 LOWEST WATER LEVEL 8.54 BELOW LSD, FEB. 18, 1981.  
 RECORDS AVAILABLE 1965-73, 1975-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 8.54        | MAR. 12, 1981 | 7.56        |      |             |      |             |

301304091424002 LOCAL WELL NUMBER: SMN-109

OWNER: U. S. GEOL. SURVEY. (SEC. 36, T. 9S., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 375 FT, SCREENED 370-375, MP TOP OF 2-IN CASING, 2.40 FT ABOVE LSD.  
 LSD 11.34 FT NGVD.  
 HIGHEST WATER LEVEL 2.94 ABOVE LSD, FEB. 27, 1974.  
 LOWEST WATER LEVEL 8.82 BELOW LSD, FEB. 18, 1981.  
 RECORDS AVAILABLE 1965-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 8.82        | MAR. 12, 1981 | 7.85        |      |             |      |             |

300947091472102 LOCAL WELL NUMBER: SMN-134R

OWNER: U. S. GEOL. SURVEY. (SEC. 47, T. 10S., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 846 FT, SCREENED 836-846, MP TOP OF 2-IN CASING, 3.50 FT ABOVE LSD.  
 LSD 20.00 FT NGVD.  
 HIGHEST WATER LEVEL 10.42 BELOW LSD, JUNE 4, 1975.  
 LOWEST WATER LEVEL 16.99 BELOW LSD, FEB. 18, 1981.  
 RECORDS AVAILABLE 1975-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 16.99       |      |             |      |             |      |             |



## LOUISIANA - ST. TAMMANY PARISH

## ST. MARTIN PARISH

301512091503002 LOCAL WELL NUMBER: SMN-135B

OWNER: U. S. GEOL. SURVEY. (SEC. 15, T. 9S., R. 6E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 658 FT, SCREENED 648-658, MP TOP OF 2-IN CASING, 3.00 FT ABOVE LSD.  
 LSD 15.00 FT NGVD.  
 HIGHEST WATER LEVEL 7.61 BELOW LSD, JUNE 4, 1975.  
 LOWEST WATER LEVEL 15.36 BELOW LSD, FEB. 18, 1981.  
 RECORDS AVAILABLE 1975-79, CURRENT YEAR.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| FEB. 18, 1981 | 15.36       |      |             |      |             |      |             |

## ST. TAMMANY PARISH

302055090014601 LOCAL WELL NUMBER: ST-12

OWNER: LA. PARKS AND REC. COMM. (SEC. 37, T. 8S., R. 12E.) DRILLED UNUSED ARTESIAN WELL IN BIG BRANCH AQUIFER (ZONE 1) OF PLIOCENE AGE, DIAM 6 IN, DEPTH 1525 FT, SCREENED INTERVAL UNKNOWN, MP CENTERLINE OF 4-IN TEE, 2.30 FT BELOW LSD.  
 LSD 10.00 FT NGVD.  
 HIGHEST WATER LEVEL 55.90 ABOVE LSD, JULY 25, 1940.  
 LOWEST WATER LEVEL 23.50 ABOVE LSD, JAN. 7, 1970.  
 RECORDS AVAILABLE 1939-CURRENT YEAR.

| DATE            | WATER LEVEL | DATE            | WATER LEVEL | DATE           | WATER LEVEL | DATE            | WATER LEVEL |
|-----------------|-------------|-----------------|-------------|----------------|-------------|-----------------|-------------|
| OCT. 29, 1980 + | 26.80       | JAN. 21, 1981 + | 25.50       | APR. 9, 1981 + | 26.70       | JULY 20, 1981 + | 25.30       |

303529089550601 LOCAL WELL NUMBER: ST-16

OWNER: ROGALUSA TUNG OIL CO. (SEC. 29, T. 5S., R. 13E.) DRILLED UNUSED ARTESIAN WELL IN ARITA AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 4 IN, REPORTED DEPTH 1000 FT, SCREENED INTERVAL UNKNOWN, MP CENTERLINE OF DISCHARGE PIPE, 4.00 FT ABOVE LSD.  
 LSD 78.00 FT NGVD.  
 HIGHEST WATER LEVEL 38.10 ABOVE LSD, JULY 11, 1946.  
 LOWEST WATER LEVEL 10.90 ABOVE LSD, MAY 17, 1977.  
 RECORDS AVAILABLE 1939-CURRENT YEAR.

| DATE            | WATER LEVEL | DATE           | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|-----------------|-------------|----------------|-------------|------|-------------|------|-------------|
| NOV. 13, 1980 + | 12.00       | APR. 6, 1981 + | 16.50       |      |             |      |             |

302852090010601 LOCAL WELL NUMBER: ST-545

OWNER: WILLIAM BAGLEY, SR. (SEC. 32, T. 6S., R. 12E.) DRILLED DOMESTIC ARTESIAN WELL IN COVINGTON AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 2 1/2 IN, REPORTED DEPTH 1598 FT, SCREENED 1548-1598, MP TOP EDGE OF CEMENT-BLOCK SECTION OF BUNKHOUSE WALL, 3.00 FT BELOW LSD.  
 LSD 35.00 FT NGVD.  
 HIGHEST WATER LEVEL 97.00 ABOVE LSD, MAR. 11, 1953.  
 LOWEST WATER LEVEL 47.20 ABOVE LSD, JULY 19, 1979.  
 RECORDS AVAILABLE 1953-CURRENT YEAR.

| DATE            | WATER LEVEL | DATE           | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|-----------------|-------------|----------------|-------------|------|-------------|------|-------------|
| OCT. 29, 1980 + | 48.80       | APR. 9, 1981 + | 54.00       |      |             |      |             |

302406090093101 LOCAL WELL NUMBER: ST-562

OWNER: TOWN OF MADISONVILLE. (SEC. 39, T. 7S., R. 10E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN COVINGTON AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 4 IN, DEPTH 1901 FT, SCREENED 1840-1901, MP CENTERLINE OF 4-IN DISCHARGE LINE, 3.10 FT ABOVE LSD.  
 LSD 4.00 FT NGVD.  
 HIGHEST WATER LEVEL 119.20 ABOVE LSD, NOV. 17, 1961.  
 LOWEST WATER LEVEL 69.60 ABOVE LSD, JULY 19, 1979.  
 RECORDS AVAILABLE 1957-CURRENT YEAR.

| DATE            | WATER LEVEL | DATE            | WATER LEVEL | DATE           | WATER LEVEL | DATE            | WATER LEVEL |
|-----------------|-------------|-----------------|-------------|----------------|-------------|-----------------|-------------|
| OCT. 29, 1980 + | 82.60       | JAN. 21, 1981 + | 82.90       | APR. 9, 1981 + | 86.10       | JULY 20, 1981 + | 82.00       |

See footnotes at end of table.

## GROUND-WATER LEVELS

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## ST. TAMMANY PARISH

301536089470501 LOCAL WELL NUMBER: ST-563

OWNER: CITY OF SLIDELL. (SEC. 15, T. 9S., R. 14E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SLIDELL AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 10 IN, DEPTH 2411 FT, SCREFFED 2262-2411. MP CENTERLINE OF FAUCET ON DISCHARGE LINE, 3.50 FT ABOVE LSD.  
 LSD 4.00 FT NGVD.  
 HIGHEST WATER LEVEL 118.90 ABOVE LSD, JUNE 12, 1958.  
 LOWEST WATER LEVEL 64.50 ABOVE LSD, NOV. 6, 1979, JULY 20, 1981.  
 RECORDS AVAILABLE 1957-CURRENT YEAR.

| DATE            | WATER LEVEL | DATE            | WATER LEVEL | DATE           | WATER LEVEL | DATE            | WATER LEVEL |
|-----------------|-------------|-----------------|-------------|----------------|-------------|-----------------|-------------|
| OCT. 29, 1980 + | 66.00       | JAN. 21, 1981 + | 65.40       | APR. 9, 1981 + | 66.50       | JULY 20, 1981 + | 64.50       |

303010090120701 LOCAL WELL NUMBER: ST-615

OWNER: U. S. GEOL. SURVEY. (SEC. 28, T. 6S., R. 10E.) BORED OBSERVATION ARTESIAN WELL IN UPLAND TERRACE DEPOSITS OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 34 FT, SCREENED 32-34. MP TOP OF CASING, 2.30 FT ABOVE LSD.  
 LSD 39.00 FT NGVD.  
 HIGHEST WATER LEVEL 2.51 BELOW LSD, JAN. 11, 1972.  
 LOWEST WATER LEVEL 9.48 BELOW LSD, DEC. 4, 1968.  
 RECORDS AVAILABLE 1968-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|--------------|-------------|------|-------------|------|-------------|
| OCT. 29, 1980 | 8.09        | APR. 9, 1981 | 7.90        |      |             |      |             |

303159090110001 LOCAL WELL NUMBER: ST-652

OWNER: WILLIE CORP. (SEC. 15, T. 6S., R. 10E.) DRILLED RECREATION ARTESIAN WELL IN RAMSAY AQUIFER (ZONE 3) OF MIOCENE AGE, DIAM 10 IN, DEPTH 3354 FT, SCREENED 3269-3354. MP CENTERLINE OF HORIZONTAL 10-IN PIPE, 3.00 FT ABOVE LSD.  
 LSD 44.00 FT NGVD.  
 HIGHEST WATER LEVEL 95.80 ABOVE LSD, MAY 2, 1969.  
 LOWEST WATER LEVEL 67.20 ABOVE LSD, MAY 17, 1977.  
 RECORDS AVAILABLE 1969-CURRENT YEAR.

| DATE            | WATER LEVEL | DATE            | WATER LEVEL | DATE           | WATER LEVEL | DATE            | WATER LEVEL |
|-----------------|-------------|-----------------|-------------|----------------|-------------|-----------------|-------------|
| OCT. 29, 1980 + | 78.80       | JAN. 22, 1981 + | 79.70       | APR. 9, 1981 + | 81.00       | JULY 21, 1981 + | 79.80       |

301839089493801 LOCAL WELL NUMBER: ST-661

OWNER: ALBERT L. STONE. (SEC. 37, T. 8S., R. 14E.) DRILLED DOMESTIC ARTESIAN WELL IN SLIDELL AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 2 IN, DEPTH 2220 FT, SCREENED 2200-2220. MP CENTER OF 2-IN DISCHARGE LINE, 1.00 FT ABOVE LSD.  
 LSD 16.00 FT NGVD.  
 HIGHEST WATER LEVEL 87.45 ABOVE LSD, FEB. 20, 1969.  
 LOWEST WATER LEVEL 57.20 ABOVE LSD, OCT. 29, 1980.  
 RECORDS AVAILABLE 1969-CURRENT YEAR.

| DATE            | WATER LEVEL | DATE           | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|-----------------|-------------|----------------|-------------|------|-------------|------|-------------|
| OCT. 29, 1980 + | 57.20       | APR. 9, 1981 + | 62.00       |      |             |      |             |

## TANGIPAHOA PARISH

302606090263401 LOCAL WELL NUMBER: TA-7

OWNER: TOWN OF PONCHATOULA. (SEC. 18, T. 7S., R. 8E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN UPPER PONCHATOULA AQUIFER OF PLEISTOCENE AGE, DIAM 6 IN, REPORTED DEPTH 654 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF TEE AT WELL, 0.73 FT ABOVE LSD.  
 LSD 22.00 FT NGVD.  
 HIGHEST WATER LEVEL 11.60 ABOVE LSD, AUG. 8, 1939, FEB. 3, 1942.  
 LOWEST WATER LEVEL 1.42 ABOVE LSD, JULY 21, 1971.  
 RECORDS AVAILABLE 1939-CURRENT YEAR.

| DATE           | WATER LEVEL | DATE            | WATER LEVEL | DATE            | WATER LEVEL | DATE            | WATER LEVEL |
|----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| NOV. 4, 1980 + | 3.38        | JAN. 23, 1981 + | 4.53        | MAR. 31, 1981 + | 4.33        | JULY 20, 1981 + | 3.63        |

See footnotes at end of table.

## LOUISIANA - TANGIPAHOA PARISH

302549090222601 LOCAL WELL NUMBER: TA-242

OWNER: RYRON STEVENS. (SEC. 23, T. 7S., R. 8E.) DRILLED IRRIGATION ARTESIAN WELL IN UPPER PONCHATOULA AQUIFER (ZONE 1) OF PLIOCENE AGE, DIAM 2 IN, DEPTH 405 FT, SCREENED INTERVAL UNKNOWN, MP TOP OF 2-IN TEE, 1.00 FT ABOVE LSD.  
 LSD 20.00 FT NGVD.  
 HIGHEST WATER LEVEL 14.90 ABOVE LSD, APR. 3, 1947,  
 LOWEST WATER LEVEL 7.30 ABOVE LSD, MAY 9, 1963.  
 RECORDS AVAILABLE 1944-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| OCT. 31, 1980 | + 10.90     | MAR. 31, 1981 | + 11.00     |      |             |      |             |

303007090274801 LOCAL WELL NUMBER: TA-253

OWNER: CITY OF HAMMOND. (SEC. 25, T. 6S., R. 7E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN TCHEFUNCTA AQUIFER (ZONE 2) OF MIOCENE AGE, DIAM 8 IN, DEPTH 2190 FT, SCREENED 2070-2190, MP TOP OF HORIZONTAL DISCHARGE PIPE, 2.00 FT ABOVE LSD.  
 LSD 35.00 FT NGVD.  
 HIGHEST WATER LEVEL 106.03 ABOVE LSD, DEC. 16, 1952,  
 LOWEST WATER LEVEL 64.00 ABOVE LSD, JULY 20, 1981.  
 RECORDS AVAILABLE 1952-63, 1965-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 31, 1980 | + 66.00     | JAN. 20, 1981 | + 68.00     | MAR. 31, 1981 | + 67.00     | JULY 20, 1981 | + 64.00     |

304550090304101 LOCAL WELL NUMBER: TA-260

OWNER: TOWN OF ROSELAND. (SEC. 28, T. 3S., R. 7E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN ZONE 3 SAND OF MIOCENE AGE, DIAM 4 IN, DEPTH 2013 FT, SCREENED 1951-2013, MP TOP OF 3/4-IN VALVE, 3.65 FT ABOVE LSD.  
 LSD 130.86 FT NGVD.  
 HIGHEST WATER LEVEL 34.65 ABOVE LSD, MAY 5, 1953,  
 LOWEST WATER LEVEL 19.25 BELOW LSD, APR. 1, 1981.  
 RECORDS AVAILABLE 1953-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|--------------|-------------|------|-------------|------|-------------|
| OCT. 30, 1980 | 19.10       | APR. 1, 1981 | 19.25       |      |             |      |             |

303806090295903 LOCAL WELL NUMBER: TA-262

OWNER: TOWN OF INDEPENDENCE. (SEC. 10, T. 5S., R. 7E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN AMITE AQUIFER (ZONE 3) OF MIOCENE AGE, DIAM 3 IN, DEPTH 2316 FT, SCREENED 2256-2316, MP TOP OF 4-IN TEE, 2.40 FT ABOVE LSD.  
 LSD 85.00 FT NGVD.  
 HIGHEST WATER LEVEL 79.80 ABOVE LSD, JAN. 6, 1954,  
 LOWEST WATER LEVEL 8.80 ABOVE LSD, JULY 24, 1981.  
 RECORDS AVAILABLE 1954-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|--------------|-------------|---------------|-------------|
| OCT. 30, 1980 | + 12.40     | JAN. 20, 1981 | + 12.70     | APR. 1, 1981 | + 11.40     | JULY 24, 1981 | + 8.80      |

302957090274001 LOCAL WELL NUMBER: TA-268

OWNER: CITY OF HAMMOND. (SEC. 25, T. 6S., R. 7E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN HAMMOND AQUIFER (ZONE 3) OF MIOCENE AGE, DIAM 8 IN, DEPTH 2449 FT, SCREENED 2365-2449, MP CENTERLINE OF SOUTH 6-IN DISCHARGE LINE, 2.10 FT ABOVE LSD.  
 LSD 35.00 FT NGVD.  
 HIGHEST WATER LEVEL 120.60 ABOVE LSD, JAN. 25, 1957,  
 LOWEST WATER LEVEL 24.60 ABOVE LSD, AUG. 25, 1981.  
 RECORDS AVAILABLE 1957-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE        | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|--------------|-------------|-------------|-------------|---------------|-------------|
| OCT. 31, 1980 | + 29.10     | MAR. 2, 1981 | + 32.10     | MAY 5, 1981 | + 28.60     | JULY 20, 1981 | + 26.10     |
| DEC. 12       | + 28.60     | MAR. 31      | + 31.10     | JUNE 15     | + 27.60     | AUG. 25       | + 24.60     |
| JAN. 20, 1981 | + 31.10     |              |             |             |             |               |             |

See footnotes at end of table.

## GROUND-WATER LEVELS

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## TANGIPAHOA PARISH

302519090311401 LOCAL WELL NUMBER: TA-273

OWNER: DOMINICAN SISTERS CONVENT. (SEC. 44, T. 7S., R. 7E.) DRILLED DOMESTIC ARTESIAN WELL IN TCHEFUNCTA AQUIFER (ZONE 2) OF MIOCENE AGE, DIAM 3 IN, DEPTH 2329 FT, SCREENED 2289-2329, MP CENTERLINE OF TEE, 2.00 FT ABOVE LSD.

LSD 11.00 FT NGVD.

HIGHEST WATER LEVEL 127.20 ABOVE LSD, APR. 12, 1960, MAY 17, 1960,

LOWEST WATER LEVEL 87.00 ABOVE LSD, OCT. 31, 1980.

RECORDS AVAILABLE 1960-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE         | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|--------------|----------------|------|----------------|------|----------------|
| OCT. 31, 1980 | 87.00          | APR. 1, 1981 | 88.00          |      |                |      |                |

305237090305101 LOCAL WELL NUMBER: TA-283

OWNER: VILLAGE OF TANGIPAHOA. (SEC. 60, T. 2S., R. 7E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN AMITE AQUIFER (ZONE 3) OF MIOCENE AGE, DIAM 13 IN, DEPTH 1457 FT, SCREENED 1419-1457, MP TOP OF SANITARY SEAL, 1.00 FT ABOVE LSD.

LSD 179.00 FT NGVD.

HIGHEST WATER LEVEL 36.30 BELOW LSD, MAR. 23, 1971,

LOWEST WATER LEVEL 62.90 BELOW LSD, NOV. 9, 1979.

RECORDS AVAILABLE 1969-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE         | WATER<br>LEVEL | DATE          | WATER<br>LEVEL |
|---------------|----------------|---------------|----------------|--------------|----------------|---------------|----------------|
| OCT. 30, 1980 | 58.00          | JAN. 20, 1981 | 56.67          | APR. 1, 1981 | 60.80          | JULY 24, 1981 | 61.30          |

303622090243901 LOCAL WELL NUMBER: TA-360

OWNER: U. S. GEOL. SURVEY. (SEC. 21, T. 5S., R. 8E.) BORED OBSERVATION ARTESIAN WELL IN UPLAND TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 54 FT, SCREENED 52-54, MP TOP OF CASING, 3.15 FT ABOVE LSD.

LSD 75.00 FT NGVD.

HIGHEST WATER LEVEL 14.85 BELOW LSD, OCT. 29, 1980,

LOWEST WATER LEVEL 18.76 BELOW LSD, DEC. 3, 1968.

RECORDS AVAILABLE 1968-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE         | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|--------------|----------------|------|----------------|------|----------------|
| OCT. 29, 1980 | 14.85          | APR. 2, 1981 | 16.35          |      |                |      |                |

305737090322501 LOCAL WELL NUMBER: TA-362

OWNER: U. S. GEOL. SURVEY. (SEC. 40, T. 1S., R. 7E.) BORED OBSERVATION ARTESIAN WELL IN UPLAND TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 43 FT, SCREENED 40-43, MP TOP OF CASING, 3.20 FT ABOVE LSD.

LSD 265.00 FT NGVD.

HIGHEST WATER LEVEL 16.65 BELOW LSD, APR. 28, 1980,

LOWEST WATER LEVEL 25.03 BELOW LSD, DEC. 21, 1970.

RECORDS AVAILABLE 1968-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE         | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|--------------|----------------|------|----------------|------|----------------|
| OCT. 30, 1980 | 18.55          | APR. 1, 1981 | 20.20          |      |                |      |                |

305434090264201 LOCAL WELL NUMBER: TA-440

OWNER: U. S. GEOL. SURVEY. (SEC. 47, T. 2S., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN KENTWOOD AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 2 IN, DEPTH 603 FT, SCREENED 593-603, MP TOP OF 2-IN GALVANIZED PIPE, 2.15 FT ABOVE LSD.

LSD 220.00 FT NGVD.

HIGHEST WATER LEVEL 1.61 BELOW LSD, SEP. 24, 1975,

LOWEST WATER LEVEL 4.54 BELOW LSD, NOV. 1, 1977, FEB. 13, 1979.

RECORDS AVAILABLE 1975-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE         | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|---------------|----------------|--------------|----------------|------|----------------|------|----------------|
| OCT. 30, 1980 | 3.20           | APR. 1, 1981 | 4.25           |      |                |      |                |

See footnotes at end of table.

304652089512201 LOCAL WELL NUMBER: WA-13

OWNER: CROWN ZELLERBACH. (SEC. 38, T. 35., R. 13E.) DRILLED UNUSED ARTESIAN WELL IN UPLAND TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 20 IN, DEPTH 156 FT, SCREENED 90-156. MP TOP EDGE OF RECORDER SHELTER SUBFLOOR, 1.30 FT ABOVE LSD.  
 LSD 95.00 FT NGVD.  
 HIGHEST WATER LEVEL 1.30 ABOVE LSD, FEB. 22, 1961,  
 LOWEST WATER LEVEL 44.07 BELOW LSD, SEP. 22, 1958.  
 RECORDS AVAILABLE 1957-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 30, 1980 | 23.41       | JAN. 22, 1981 | 22.29       | APR. 10, 1981 | 19.10       | JULY 21, 1981 | 20.57       |

304756089514401 LOCAL WELL NUMBER: WA-14

OWNER: CITY OF BOGALUSA. (SEC. 11, T. 35., R. 13E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN COVINGTON AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 12 IN, DEPTH 681 FT, SCREENED 580-681. MP TOP OF PUMP DISCHARGE LINE, 3.70 FT ABOVE LSD.  
 LSD 105.00 FT NGVD.  
 HIGHEST WATER LEVEL 35.70 ABOVE LSD, MAY 16, 1979,  
 LOWEST WATER LEVEL 2.20 ABOVE LSD, OCT. 5, 1955.  
 RECORDS AVAILABLE 1950-67, 1970-CURRENT YEAR.

| DATE            | WATER LEVEL | DATE            | WATER LEVEL | DATE            | WATER LEVEL | DATE            | WATER LEVEL |
|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| OCT. 30, 1980 + | 16.00       | JAN. 22, 1981 + | 19.00       | APR. 10, 1981 + | 18.30       | JULY 21, 1981 + | 21.90       |

304613049513201 LOCAL WELL NUMBER: WA-15

OWNER: CITY OF BOGALUSA. (SEC. 38, T. 35., R. 13E.) DRILLED UNUSED ARTESIAN WELL IN COVINGTON AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 12 IN, DEPTH 769 FT, SCREENED 688-769. MP TOP OF PLUG IN 2-IN TFE AT END OF 3-IN DISCHARGE LINE, 1.50 FT ABOVE LSD.  
 LSD 98.00 FT NGVD.  
 HIGHEST WATER LEVEL 29.80 ABOVE LSD, APR. 18, 1950,  
 LOWEST WATER LEVEL 5.46 ABOVE LSD, JULY 30, 1957.  
 RECORDS AVAILABLE 1942, 1950-63, 1965-68, 1970-CURRENT YEAR.

| DATE            | WATER LEVEL | DATE            | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|-----------------|-------------|-----------------|-------------|------|-------------|------|-------------|
| OCT. 30, 1980 + | 21.90       | APR. 10, 1981 + | 23.00       |      |             |      |             |

305036090092101 LOCAL WELL NUMBER: WA-18

OWNER: TOWN OF FRANKLINTON. (SEC. 46, T. 25., R. 10E.) DRILLED UNUSED ARTESIAN WELL IN KENTWOOD AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 6 IN, DEPTH 788 FT, SCREENED INTERVAL UNKNOWN, MP TOP OF 6-IN TFE, 1.20 FT ABOVE LSD.  
 LSD 150.00 FT NGVD.  
 HIGHEST WATER LEVEL 35.80 ABOVE LSD, DEC. 21, 1942,  
 LOWEST WATER LEVEL 17.10 ABOVE LSD, NOV. 9, 1955.  
 RECORDS AVAILABLE 1942, 1949-62, 1965-CURRENT YEAR.

| DATE            | WATER LEVEL | DATE            | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|-----------------|-------------|-----------------|-------------|------|-------------|------|-------------|
| OCT. 30, 1980 + | 20.70       | APR. 14, 1981 + | 21.20       |      |             |      |             |

304756089514402 LOCAL WELL NUMBER: WA-41

OWNER: CITY OF BOGALUSA. (SEC. 11, T. 35., R. 13E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN ZONE 3 SAND OF MIOCENE AGE, DIAM 12 IN, DEPTH 1442 FT, SCREENED 1352-1442. MP BOTTOM EDGE OF FLANGE ON PIPE EXTENDING FROM SIDE OF CASING, 0.78 FT ABOVE LSD.  
 LSD 105.00 FT NGVD.  
 HIGHEST WATER LEVEL 33.40 ABOVE LSD, MAR. 16, 1950,  
 LOWEST WATER LEVEL 80.14 BELOW LSD, JULY 21, 1980.  
 RECORDS AVAILABLE 1950, 1952-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE        | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|
| OCT. 30, 1980 | 69.48       | FEB. 26, 1981 | 65.30       | MAY 6, 1981 | 71.51       | JULY 21, 1981 | 66.68       |
| DEC. 19       | 66.24       | APR. 10       | 65.12       | JUNE 16     | 72.11       | SEP. 3        | 64.23       |

See footnotes at end of table.



## GROUND-WATER LEVELS

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## WASHINGTON PARISH

304107089523401 LOCAL WELL NUMBER: WA-43

OWNER: V. A. TALLEY. (SEC. 49, T. 4S., R. 13E.) DRILLED DOMESTIC ARTESIAN WELL IN UPLAND TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 2 IN, DEPTH 420 FT, SCREENED INTERVAL UNKNOWN, MP TOP OF VALVE, 1.40 FT ABOVE LSD.  
 LSD 71.00 FT NGVD.  
 HIGHEST WATER LEVEL 31.00 ABOVE LSD, SEP. 12, 1950,  
 LOWEST WATER LEVEL 8.10 ABOVE LSD, SEP. 26, 1978.  
 RECORDS AVAILABLE 1950-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| OCT. 30, 1980 | 12.70       | APR. 10, 1981 | 14.40       |      |             |      |             |

305124090093401 LOCAL WELL NUMBER: WA-57

OWNER: TOWN OF FRANKLINTON. (SEC. 45, T. 2S., R. 10E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN FRANKLINTON AQUIFER (ZONE 3) OF MIOCENE AGE, DIAM 12 IN, DEPTH 2746 FT, SCREENED 2614-2746. MP HOLE IN PLATE OVER CASING, 0.72 FT ABOVE LSD.  
 LSD 160.00 FT NGVD.  
 HIGHEST WATER LEVEL 20.76 BELOW LSD, AUG. 26, 1957,  
 LOWEST WATER LEVEL 61.79 BELOW LSD, SEP. 26, 1978.  
 RECORDS AVAILABLE 1957-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 30, 1980 | 57.19       | JAN. 29, 1981 | 58.11       | APR. 14, 1981 | 57.58       | JULY 21, 1981 | 56.31       |

305515090194101 LOCAL WELL NUMBER: WA-91

OWNER: U. S. GEOL. SURVEY. (SEC. 32, T. 1S., R. 9E.) DRILLED OBSERVATION ARTESIAN WELL IN KENTWOOD AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 2 IN, DEPTH 600 FT, SCREENED 580-600, MP TOP OF 2-IN CASING, 0.20 FT ABOVE LSD.  
 LSD 240.00 FT NGVD.  
 HIGHEST WATER LEVEL 11.19 BELOW LSD, OCT. 30, 1980,  
 LOWEST WATER LEVEL 15.03 BELOW LSD, FEB. 13, 1979.  
 RECORDS AVAILABLE 1975-80.

| DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|------|-------------|------|-------------|------|-------------|
| OCT. 30, 1980 | 11.19       |      |             |      |             |      |             |

304709090121502 LOCAL WELL NUMBER: WA-103

OWNER: LSU SOUTHEAST EXPERIMENT STATION. (SEC. 16, T. 3S., R. 10E.) DRILLED UNUSED ARTESIAN WELL IN UPLAND TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 170 FT, SCREENED 140-170. MP TOP OF FLANGE, 0.80 FT ABOVE LSD.  
 LSD 225.00 FT NGVD.  
 HIGHEST WATER LEVEL 64.69 BELOW LSD, SEP. 10, 1975,  
 LOWEST WATER LEVEL 68.35 BELOW LSD, APR. 14, 1981.  
 RECORDS AVAILABLE 1975-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| OCT. 30, 1980 | 66.17       | APR. 14, 1981 | 68.35       |      |             |      |             |

304900089542601 LOCAL WELL NUMBER: WA-125

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 3S., R. 13E.) DRILLED OBSERVATION ARTESIAN WELL IN ZONE 3 SAND OF MIOCENE AGE, DIAM 2 IN, DEPTH 1450 FT, SCREENED 1440-1450. MP TOP OF 2-IN GALVANIZED PIPE, 0.40 FT ABOVE LSD.  
 LSD 150.00 FT NGVD.  
 HIGHEST WATER LEVEL 66.46 BELOW LSD, APR. 3, 1978,  
 LOWEST WATER LEVEL 87.32 BELOW LSD, JULY 21, 1980.  
 RECORDS AVAILABLE 1977-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 30, 1980 | 81.28       | JAN. 22, 1981 | 83.09       | APR. 14, 1981 | 79.15       | JULY 21, 1981 | 77.15       |

See footnotes at end of table.



## LOUISIANA - WEST BATON ROUGE PARISH

302732091121901 LOCAL WELL NUMBER: WBR-5

OWNER: CITY OF PORT ALLEN. (SEC. 66, T. 7S., R. 12E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 8 IN, DEPTH 1,335 FT, SCREENED 1,230-1,335. MP TOP EDGE OF 3/8-IN HOLE IN 8-IN PLUG IN TEE ATOP CASING, 6.76 FT ABOVE LSD.  
 LSD 27.00 FT NGVD.  
 HIGHEST WATER LEVEL 36.10 ABOVE LSD, JUNE 21, 1943,  
 LOWEST WATER LEVEL 112.62 BELOW LSD, AUG. 15, 1974.  
 RECORDS AVAILABLE 1943-46, 1949-50, 1954-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE         | WATER LEVEL | DATE        | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|--------------|-------------|-------------|-------------|---------------|-------------|
| NOV. 6, 1980  | 98.01       | MAR. 2, 1981 | 98.01       | MAY 8, 1981 | 100.19      | JULY 27, 1981 | 104.41      |
| DEC. 15       | 107.52      | APR. 6       | 97.05       | JUNE 18     | 99.56       | AUG. 28       | 102.43      |
| JAN. 26, 1981 | 101.62      |              |             |             |             |               |             |

302610091121101 LOCAL WELL NUMBER: WBR-36

OWNER: BATON ROUGE PORT AUTHORITY. (SEC. 69, T. 7S., R. 12E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 14 TO 10 IN, REPORTED DEPTH 1,360 FT, SCREENED 1,245-1,290, 1,305-1,360. MP TOP OF 3/4-IN BREATHER PIPE IN FLANGE ATOP CASING, 1.00 FT ABOVE LSD.  
 LSD 29.00 FT NGVD.  
 HIGHEST WATER LEVEL 33.90 BELOW LSD, FEB. 3, 1955,  
 LOWEST WATER LEVEL 106.75 BELOW LSD, OCT. 1, 1969.  
 RECORDS AVAILABLE 1955, 1962, 1967, 1969-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|--------------|-------------|---------------|-------------|------|-------------|------|-------------|
| NOV. 4, 1980 | 96.00       | APR. 16, 1981 | 90.90       |      |             |      |             |

302613091121501 LOCAL WELL NUMBER: WBR-37

OWNER: BATON ROUGE PORT AUTHORITY. (SEC. 69, T. 7S., R. 12E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 14 TO 10 IN, DEPTH 1,356 FT, SCREENED 1,235-1,288, 1,318-1,335, 1,340-1,356. MP TOP OF 3/4-IN BREATHER PIPE IN FLANGE ATOP CASING, 1.00 FT ABOVE LSD.  
 LSD 27.00 FT NGVD.  
 HIGHEST WATER LEVEL 31.93 BELOW LSD, FEB. 3, 1955,  
 LOWEST WATER LEVEL 112.25 BELOW LSD, OCT. 18, 1974.  
 RECORDS AVAILABLE 1955, 1969-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|--------------|-------------|---------------|-------------|------|-------------|------|-------------|
| NOV. 4, 1980 | 95.55       | APR. 16, 1981 | 95.90       |      |             |      |             |

302922091122301 LOCAL WELL NUMBER: WBR-50

OWNER: POPLAR GROVE PLANTING AND REFINING CO., INC. (SEC. 59, T. 7S., R. 12E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 12 TO 8 IN, DEPTH 2,105 FT, SCREENED 2,045-2,105. MP TOP INSIDE EDGE OF 2-IN NIPPLE, 0.80 FT ABOVE LSD.  
 LSD 27.00 FT NGVD.  
 HIGHEST WATER LEVEL 90.02 BELOW LSD, JAN. 7, 1960,  
 LOWEST WATER LEVEL 296.41 BELOW LSD, SEP. 25, 1973.  
 RECORDS AVAILABLE 1958-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|--------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| NOV. 4, 1980 | 291.00      | JAN. 26, 1981 | 286.40      | APR. 16, 1981 | 273.00      | JULY 28, 1981 | 285.00      |

302851091145801 LOCAL WELL NUMBER: WBR-74

OWNER: MISSOURI PACIFIC RAILROAD. (SEC. 89, T. 7S., R. 12E.) DRILLED UNUSED ARTESIAN WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, ESTIMATED DEPTH 175 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF CASING, 0.86 FT ABOVE LSD.  
 LSD 24.00 FT NGVD.  
 HIGHEST WATER LEVEL 10.56 ABOVE LSD, MAY 21, 1979,  
 LOWEST WATER LEVEL 18.92 BELOW LSD, JAN. 26, 1981.  
 RECORDS AVAILABLE 1958, 1977-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|--------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| NOV. 5, 1980 | 17.84       | JAN. 26, 1981 | 18.92       | APR. 16, 1981 | 13.54       | JULY 28, 1981 | 9.64        |

GROUND-WATER LEVELS  
WEST BATON ROUGE PARISH

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302546091131402 LOCAL WELL NUMBER: WBR-97B

OWNER: MRS. HUGHES. (SEC. 70, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 2,200 FT, SCREENED 2,170-2,200. MP TOP EDGE OF 1/2-IN HOLE IN CAP, 0.92 FT ABOVE LSD.  
LSD 17.00 FT NGVD.  
HIGHEST WATER LEVEL 26.50 ABOVE LSD, JULY 22, 1964.  
LOWEST WATER LEVEL 67.68 BELOW LSD, JULY 19, 1979.  
RECORDS AVAILABLE 1964-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE        | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|
| OCT. 23, 1980 | 55.05       | APR. 16, 1981 | 54.88       | MAY 8, 1981 | 54.14       | JULY 28, 1981 | 58.98       |
| JAN. 26, 1981 | 57.38       |               |             |             |             |               |             |

302652091121401 LOCAL WELL NUMBER: WBR-100A

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 68, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,700-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN, DEPTH 1,888 FT, SCREENED 1,884-1,888. MP TOP EDGE OF 3/8-IN HOLE IN CAP, 2.50 FT ABOVE LSD.  
LSD 29.00 FT NGVD.  
HIGHEST WATER LEVEL 58.30 BELOW LSD, MAY 6, 1966.  
LOWEST WATER LEVEL 129.12 BELOW LSD, DEC. 20, 1976.  
RECORDS AVAILABLE 1966-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 23, 1980 | 120.15      | JAN. 26, 1981 | 110.80      | APR. 16, 1981 | 120.40      | JULY 28, 1981 | 121.10      |

302652091121402 LOCAL WELL NUMBER: WBR-100B

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 68, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 2,448 FT, SCREENED 2,444-2,448. MP TOP EDGE OF 3/8-IN HOLE IN CAP, 2.50 FT ABOVE LSD.  
LSD 29.00 FT NGVD.  
HIGHEST WATER LEVEL 87.97 BELOW LSD, MAY 17, 1966.  
LOWEST WATER LEVEL 169.38 BELOW LSD, OCT. 23, 1980.  
RECORDS AVAILABLE 1966-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 23, 1980 | 169.38      | JAN. 26, 1981 | 165.30      | APR. 16, 1981 | 167.90      | JULY 28, 1981 | 164.90      |

302726091145501 LOCAL WELL NUMBER: WBR-101

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 91, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 1,367 FT, SCREENED 1,363-1,367. MP TOP OF 3/8-IN HOLE IN CAP, 1.02 FT ABOVE LSD.  
LSD 19.00 FT NGVD.  
HIGHEST WATER LEVEL 59.55 BELOW LSD, APR. 29, 1966.  
LOWEST WATER LEVEL 79.73 BELOW LSD, OCT. 26, 1972.  
RECORDS AVAILABLE 1966-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 24, 1980 | 73.13       | JAN. 26, 1981 | 74.38       | APR. 16, 1981 | 73.78       | JULY 28, 1981 | 75.58       |

302806091172601 LOCAL WELL NUMBER: WBR-102A

OWNER: U. S. GEOL. SURVEY. (SEC. 7, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN, DEPTH 1,288 FT, SCREENED 1,284-1,288. MP TOP EDGE OF 3/8-IN HOLE IN CAP, 2.35 FT ABOVE LSD.  
LSD 18.00 FT NGVD.  
HIGHEST WATER LEVEL 43.16 BELOW LSD, MAY 6, 1966.  
LOWEST WATER LEVEL 62.37 BELOW LSD, OCT. 26, 1972.  
RECORDS AVAILABLE 1966-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| OCT. 24, 1980 | 57.55       | APR. 16, 1981 | 57.65       |      |             |      |             |

302806091172602 LOCAL WELL NUMBER: WRR-102B

OWNER: U. S. GEOL. SURVEY. (SEC. 7, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN, DEPTH 2,100 FT, SCREENED 2,096-2,100. MP TOP EDGE OF 3/4-IN HOLE IN CAP, 2.35 FT ABOVE LSD.  
 LSD 18.00 FT NGVD.  
 HIGHEST WATER LEVEL 63.89 BELOW LSD, APR. 22, 1966.  
 LOWEST WATER LEVEL 189.22 BELOW LSD, SEP. 25, 1973.  
 RECORDS AVAILABLE 1966-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| OCT. 24, 1980 | 182.55      | APR. 16, 1981 | 182.25      |      |             |      |             |

302703091133703 LOCAL WELL NUMBER: WRR-106

OWNER: U. S. GEOL. SURVEY. (SEC. 93, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 IN, DEPTH 2,017 FT, SCREENED 2,012-2,017. MP TOP EDGE OF 3/4-IN AIRLINE (REMOVE CASING EXTENSION), 2.08 FT ABOVE LSD.  
 LSD 22.00 FT NGVD.  
 HIGHEST WATER LEVEL 166.62 BELOW LSD, JULY 28, 1966.  
 LOWEST WATER LEVEL 288.20 BELOW LSD, NOV. 8, 1973.  
 RECORDS AVAILABLE 1966-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 268.86      | JAN. 26, 1981 | 258.72      | APR. 16, 1981 | 267.82      | JULY 28, 1981 | 258.82      |
| NOV. 17       | 264.22      |               |             |               |             |               |             |

302853091150201 LOCAL WELL NUMBER: WRR-146

OWNER: U. S. GEOL. SURVEY. (SEC. 119, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 1/2 IN, DEPTH 472 FT, SCREENED 462-472. MP TOP OF 2 1/2-IN COLLAR, AT LSD.  
 LSD 25.00 FT NGVD.  
 HIGHEST WATER LEVEL 10.54 ABOVE LSD, APR. 27, 1979.  
 LOWEST WATER LEVEL 20.40 BELOW LSD, JAN. 26, 1981.  
 RECORDS AVAILABLE 1977-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|--------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| NOV. 5, 1980 | 19.00       | JAN. 26, 1981 | 20.40       | APR. 16, 1981 | 15.50       | JULY 28, 1981 | 11.50       |

302559091122001 LOCAL WELL NUMBER: WRR-147

OWNER: U. S. GEOL. SURVEY. (SEC. 70, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,000-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 2 1/2 IN, DEPTH 1,292 FT, SCREENED 1,282-1,292. MP TOP OF 2 1/2-IN COLLAR, 1.23 FT ABOVE LSD.  
 LSD 27.00 FT NGVD.  
 HIGHEST WATER LEVEL 34.47 BELOW LSD, DEC. 3, 1979.  
 LOWEST WATER LEVEL 45.37 BELOW LSD, MAY 8, 1980.  
 RECORDS AVAILABLE 1977-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|------|-------------|
| OCT. 27, 1980 | 36.98       | NOV. 19, 1980 | 37.02       | APR. 16, 1981 | 37.37       |      |             |

302702091185101 LOCAL WELL NUMBER: WRR-148

OWNER: U. S. GEOL. SURVEY. (SEC. 23, T. 7S., R. 11E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 2 1/2 IN, DEPTH 1,304 FT, SCREENED 1,294-1,304. MP TOP OF 2 1/2-IN CASING, AT LSD (SINCE 1/26/81.)  
 LSD 14.00 FT NGVD.  
 HIGHEST WATER LEVEL 47.86 BELOW LSD, JUNE 4, 1980.  
 LOWEST WATER LEVEL 53.60 BELOW LSD, SEP. 8, 1978.  
 RECORDS AVAILABLE 1978-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| OCT. 27, 1980 | 50.38       | JAN. 26, 1981 | 51.70       | APR. 16, 1981 | 50.80       | JULY 28, 1981 | 52.80       |

## GROUND-WATER LEVELS

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## WEST BATON ROUGE PARISH

302958091124801 LOCAL WELL NUMBER: WBR-160

OWNER: WEST BATON ROUGE GAS AND WATER SYSTEM, (SEC. 50, T. 6S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("800-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN, DEPTH 840 FT, SCREENED 830-840, MP 1/2-IN HOLE IN TOP OF CAP, 2.40 FT ABOVE LSD (SINCE 1/26/81).  
 LSD 26.00 FT NGVD.  
 HIGHEST WATER LEVEL 47.10 BELOW LSD, JULY 15, 1980.  
 LOWEST WATER LEVEL 100.20 BELOW LSD, JAN. 26, 1981.  
 RECORDS AVAILABLE 1980-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|--------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| NOV. 4, 1980 | 94.00       | JAN. 26, 1981 | 100.20      | APR. 16, 1981 | 85.40       | JULY 28, 1981 | 97.50       |

302958091124802 LOCAL WELL NUMBER: WBR-161

OWNER: U. S. GEOL. SURVEY, (SEC. 50, T. 6S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLISTOCENE AGE, DIAM 2 IN, DEPTH 650 FT, SCREENED 640-650, MP HOLE IN TOP OF CAP, 2.00 FT ABOVE LSD.  
 LSD 26.00 FT NGVD.  
 HIGHEST WATER LEVEL 48.60 BELOW LSD, APR. 16, 1981.  
 LOWEST WATER LEVEL 63.75 BELOW LSD, SEP. 19, 1979.  
 RECORDS AVAILABLE 1979-CURRENT YEAR.

| DATE         | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE          | WATER LEVEL |
|--------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| NOV. 4, 1980 | 61.10       | JAN. 26, 1981 | 54.50       | APR. 16, 1981 | 48.60       | JULY 28, 1981 | 51.30       |

## WEST FELICIANA PARISH

305643091341201 LOCAL WELL NUMBER: WF-220

OWNER: LA. STATE PENAL FARM, (SEC. 53, T. 1S., R. 5W.) DRILLED UNUSED ARTESIAN WELL IN ZONE 3 AQUIFER OF MIOCENE AGE, DIAM 12 IN, DEPTH 907 FT, SCREENED 847-907, MP (FLOWING CONDITIONS) TOP OF IRON COVER PLATE, 0.50 FT ABOVE LSD, MP (NONFLOWING CONDITIONS) TOP OF 3/4-IN X 1 1/2-IN BUSHING, 0.69 FT ABOVE LSD.  
 LSD 60.00 FT NGVD.  
 HIGHEST WATER LEVEL 15.90 ABOVE LSD, APR. 3, 1959.  
 LOWEST WATER LEVEL 9.00 BELOW LSD, MAR. 30, 1981.  
 RECORDS AVAILABLE 1956, 1958-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| OCT. 29, 1980 | 8.46        | MAR. 30, 1981 | 9.00        |      |             |      |             |

305633091341601 LOCAL WELL NUMBER: WF-40

OWNER: LA. STATE PENAL FARM, (SEC. 24, T. 1S., R. 5W.) DRILLED INSTITUTIONAL ARTESIAN WELL IN ZONE 2 AQUIFER OF PLIOCENE-MIOCENE AGE, DIAM 12 IN, REPORTED DEPTH 632 FT, SCREENED 549-632, MP TOP INSIDE EDGE OF 2-IN ELBOW ATOP CASING, 2.85 FT ABOVE LSD.  
 LSD 50.00 FT NGVD.  
 HIGHEST WATER LEVEL 23.90 ABOVE LSD, MAY 8, 1958.  
 LOWEST WATER LEVEL 6.66 BELOW LSD, NOV. 2, 1978.  
 RECORDS AVAILABLE 1956, 1958-59, 1963-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| OCT. 29, 1980 | 4.62        | MAR. 30, 1981 | 5.17        |      |             |      |             |

304935091221001 LOCAL WELL NUMBER: WF-188

OWNER: U. S. GEOL. SURVEY, (SEC. 69, T. 2S., R. 3W.) DRILLED OBSERVATION WATER-TABLE WELL IN UPLAND TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 55 FT, SCREENED 52-55, MP TOP OF 1 1/4-IN CASING, 0.20 FT ABOVE LSD.  
 LSD 117.00 FT NGVD.  
 HIGHEST WATER LEVEL 12.44 BELOW LSD, APR. 28, 1980.  
 LOWEST WATER LEVEL 16.68 BELOW LSD, JULY 9, 1963.  
 RECORDS AVAILABLE 1960-CURRENT YEAR.

| DATE          | WATER LEVEL | DATE          | WATER LEVEL | DATE | WATER LEVEL | DATE | WATER LEVEL |
|---------------|-------------|---------------|-------------|------|-------------|------|-------------|
| OCT. 29, 1980 | 13.55       | MAR. 30, 1981 | 13.71       |      |             |      |             |

## LOUISIANA - WEST FELICIANA PARISH

304704091223R01 LOCAL WELL NUMBER: WF-222

OWNER: TOWN OF ST. FRANCISVILLE. (SEC. 68, T. 3S., R. 3W.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL  
IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 12 IN, DEPTH 1526 FT, SCREENED  
1446-1526. MP TOP EDGE OF UNION, 1.15 FT ABOVE LSD.

LSD 140.00 FT NGVD.

HIGHEST WATER LEVEL 59.64 BELOW LSD, APR. 16, 1962.

LOWEST WATER LEVEL 121.22 BELOW LSD, NOV. 14, 1977.

RECORDS AVAILABLE 1961-CURRENT YEAR.

| DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL | DATE          | WATER<br>LEVEL |
|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|
| OCT. 29, 1980 | 118.65         | JAN. 19, 1981 | 114.66         | MAR. 30, 1981 | 113.15         | JULY 20, 1981 | 114.31         |

+ Above land-surface datum.

E Estimated.

H Tape measurement (recorder).

J Recorder measurement for a time other than noon.



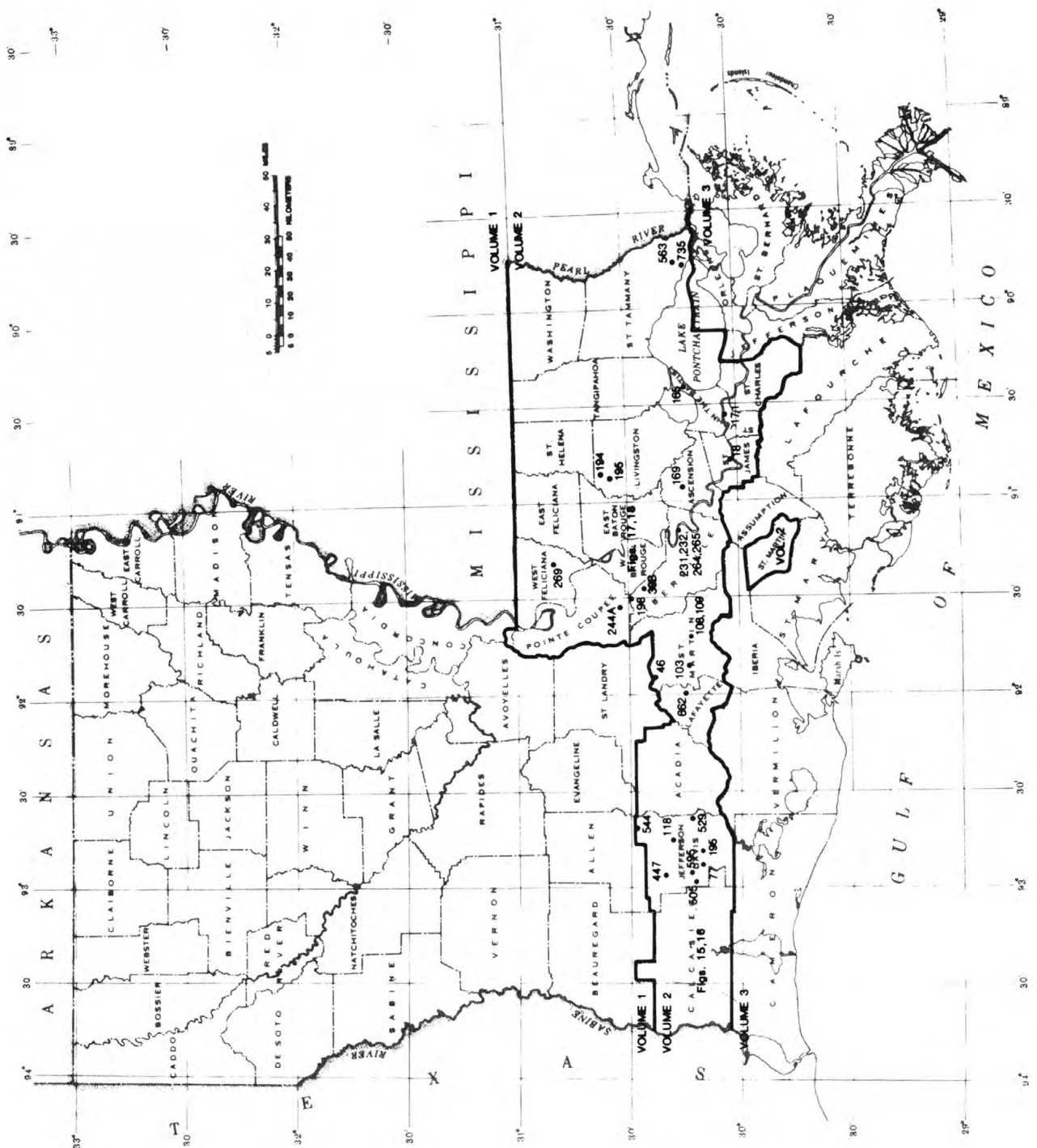
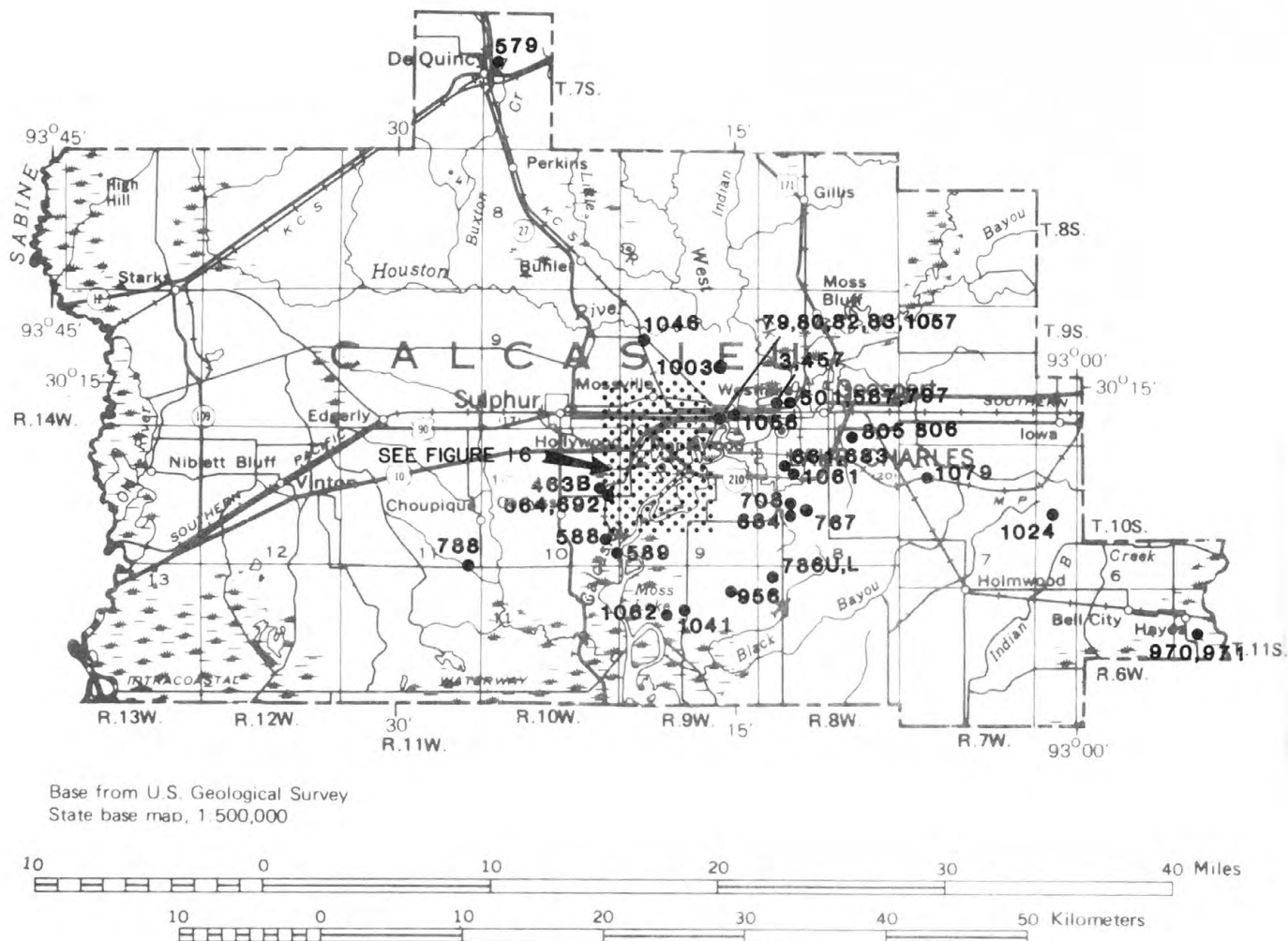
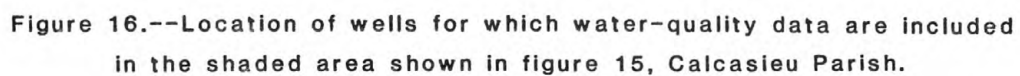


Figure 14.--Location of wells for which water-quality data are included in this report.





**Figure 15.--Location of wells for which water-quality data are included, Calcasieu Parish, except for wells located in the shaded area (see fig. 16).**



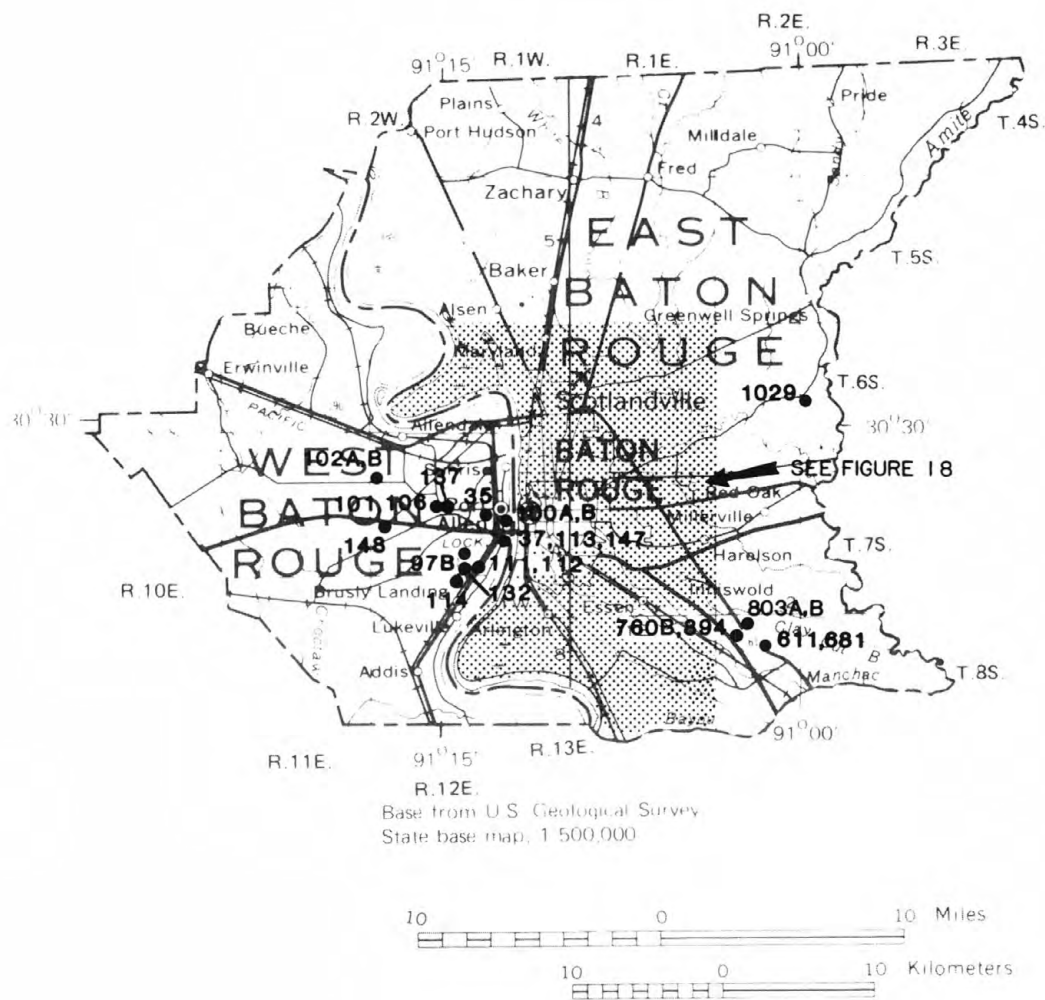


Figure 17.--Location of wells for which water-quality data are included, East Baton Rouge and West Baton Rouge Parishes, except for wells located in the shaded area (see fig.18).

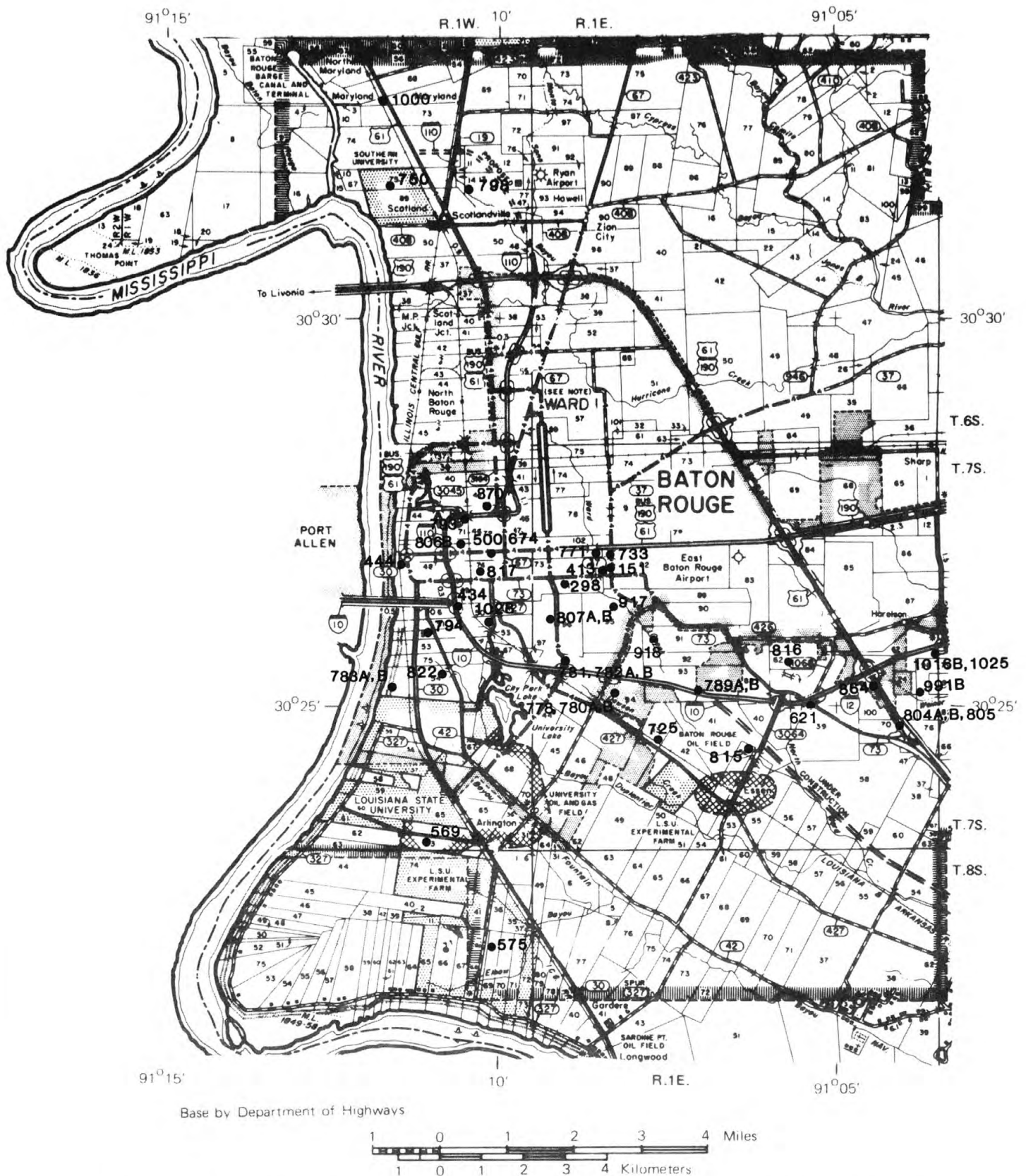


Figure 18.--Location of wells for which water-quality data are included in the shaded area shown in figure 17, East Baton Rouge Parish.

QUALITY OF GROUND WATER  
 PARTIAL CHEMICAL ANALYSES FOR MONITOR WELLS, OCTOBER 1980 TO SEPTEMBER 1981

| LOCAL IDENT- I- FIER |     |     |    | STATION         | NUMBER  | GEO- LOGIC UNIT 1/ | DEPTH OF WELL, TOTAL (FEET) | DATE OF SAMPLE | TIME | SPE- CIFIC CON- DUCT- ANCE (UMHOS) | PH (UNITS) | TEMPER- ATURE (DEG C) | HARD- NESS (MG/L AS CAC03) | CHLO- RIDE, DIS- SOLVED (MG/L AS CL) | BROMIDE DIS- SOLVED (MG/L AS BR) | IRON, DIS- SOLVED (UG/L AS FE) | MANGA- NESE, DIS- SOLVED (UG/L AS MN) |
|----------------------|-----|-----|----|-----------------|---------|--------------------|-----------------------------|----------------|------|------------------------------------|------------|-----------------------|----------------------------|--------------------------------------|----------------------------------|--------------------------------|---------------------------------------|
|                      |     |     |    |                 |         |                    |                             |                |      |                                    |            |                       |                            |                                      |                                  |                                |                                       |
| ASCENSION PARISH     |     |     |    |                 |         |                    |                             |                |      |                                    |            |                       |                            |                                      |                                  |                                |                                       |
| AN- 169              | 05  | 3F  | 29 | 301337090550901 | 1126ZNO | 525                | 81-03-31                    | 1230           | 867  | --                                 | --         | 47                    | 180                        | --                                   | --                               | --                             | --                                    |
| CALCASIEU PARISH     |     |     |    |                 |         |                    |                             |                |      |                                    |            |                       |                            |                                      |                                  |                                |                                       |
| CU- 79               | 05  | 9W  | 35 | 301356093160201 | 11205LC | 519                | 81-05-07                    | 1045           | 411  | 6.8                                | 24.0       | 120                   | 39                         | --                                   | 1200                             | --                             | --                                    |
| CU- 80               | 05  | 9W  | 35 | 301354093155201 | 11205LC | 512                | 81-05-07                    | 1015           | 425  | 6.8                                | 24.0       | 130                   | 51                         | --                                   | --                               | --                             | --                                    |
| CU- 82               | 05  | 9W  | 34 | 301359093162201 | 11205LC | 516                | 81-05-07                    | 1230           | 406  | 6.6                                | --         | 110                   | --                         | --                                   | --                               | --                             | --                                    |
|                      |     |     |    |                 | 11205LC | 516                | 81-07-16                    | 1015           | 400  | 7.6                                | --         | --                    | 34                         | --                                   | 180                              | 410                            |                                       |
| CU- 83               | 05  | 9W  | 35 | 301406093155201 | 11205LC | 501                | 81-05-07                    | 1350           | 369  | 6.7                                | --         | 110                   | 31                         | --                                   | 850                              | --                             | --                                    |
| CU- 90A              | 05  | 9W  | 27 | 301438093160902 | 11205LC | 584                | 80-10-28                    | 1030           | 350  | 7.1                                | --         | --                    | 37                         | --                                   | --                               | --                             | --                                    |
|                      |     |     |    |                 | 11205LC | 584                | 81-06-03                    | 0930           | 360  | 7.0                                | 24.5       | 90                    | 36                         | --                                   | 1600                             | 350                            |                                       |
| CU- 463B             | 10S | 10W | 13 | 301106093203202 | 11205LC | 516                | 80-10-15                    | 0930           | 393  | 7.3                                | 22.5       | --                    | 26                         | --                                   | --                               | --                             | --                                    |
|                      |     |     |    |                 | 11205LC | 516                | 81-05-29                    | 1045           | --   | 7.5                                | 23.0       | 120                   | 28                         | --                                   | 1400                             | 330                            |                                       |
| CU- 464              | 10S | 10W | 13 | 301129093202001 | 11205LC | 530                | 80-10-15                    | 0950           | 360  | 7.1                                | 23.0       | --                    | 23                         | --                                   | --                               | --                             | --                                    |
|                      |     |     |    |                 | 11205LC | 530                | 81-05-29                    | 1130           | 371  | 7.5                                | 23.5       | 120                   | 23                         | --                                   | --                               | 300                            |                                       |
| CU- 465              | 05  | 9W  | 34 | 301407093161701 | 11205LC | 520                | 81-05-07                    | 1330           | 509  | 6.8                                | --         | 110                   | 70                         | --                                   | 970                              | --                             | --                                    |
| CU- 560              | 10S | 9W  | 19 | 301035093193401 | 11205LC | 563                | 80-10-16                    | 0930           | 497  | 7.2                                | 23.0       | --                    | 53                         | --                                   | --                               | --                             | --                                    |
|                      |     |     |    |                 | 11205LC | 563                | 81-05-28                    | 1020           | 514  | 7.2                                | 23.5       | 140                   | 57                         | --                                   | --                               | 280                            |                                       |
| CU- 583              | 10S | 9W  | 3  | 301321093165202 | 11207LC | 670                | 81-05-08                    | 1015           | 544  | 7.0                                | 25.0       | 130                   | 76                         | --                                   | 1100                             | --                             | --                                    |
| CU- 588              | 10S | 10W | 25 | 300922093202901 | 11205LC | 586                | 80-10-17                    | 1100           | 413  | 7.3                                | 23.0       | --                    | 24                         | --                                   | --                               | --                             | --                                    |
|                      |     |     |    |                 | 11205LC | 586                | 81-05-29                    | 1325           | 429  | 7.4                                | 23.5       | 120                   | 26                         | --                                   | 180                              | 290                            |                                       |
| CU- 589              | 10S | 10W | 25 | 300917093202701 | 11205LC | 585                | 80-10-17                    | 1120           | 469  | 7.6                                | 23.0       | --                    | 35                         | --                                   | --                               | --                             | --                                    |
|                      |     |     |    |                 | 11205LC | 585                | 81-05-29                    | 1300           | 462  | 7.6                                | 23.5       | 120                   | 34                         | --                                   | --                               | 260                            |                                       |
| CU- 615              | 10S | 9W  | 4  | 301338093172801 | 11205LC | 533                | 81-05-11                    | 1330           | 598  | 7.1                                | --         | 140                   | 94                         | 2                                    | 540                              | --                             | --                                    |
|                      |     |     |    |                 | 11205LC | 533                | 81-07-16                    | 1105           | 601  | 6.9                                | --         | --                    | 94                         | --                                   | 1000                             | 470                            |                                       |
| CU- 619              | 10S | 9W  | 19 | 301035093191101 | 11205LC | 586                | 80-10-16                    | 0955           | 400  | 7.7                                | 23.0       | --                    | 24                         | --                                   | --                               | --                             | --                                    |
|                      |     |     |    |                 | 11205LC | 586                | 81-05-28                    | 1040           | 410  | 7.1                                | 23.5       | 130                   | 22                         | --                                   | 70                               | 240                            |                                       |
| CU- 627              | 10S | 9W  | 3  | 301319093165501 | 11205LC | 549                | 81-07-16                    | 1120           | 559  | 6.9                                | --         | --                    | 79                         | --                                   | 990                              | 450                            | --                                    |
| CU- 649              | 05  | 9W  | 34 | 301353093162001 | 11205LC | 522                | 81-05-07                    | 1200           | 386  | 6.8                                | 25.0       | 120                   | 26                         | --                                   | 1100                             | --                             | --                                    |
| CU- 664              | 10S | 10W | 13 | 301115093203601 | 11205LC | 501                | 80-10-15                    | 1055           | 362  | 7.2                                | 22.5       | --                    | 25                         | --                                   | --                               | --                             | --                                    |
|                      |     |     |    |                 | 11205LC | 501                | 81-05-29                    | 1110           | 384  | 7.2                                | 23.0       | 100                   | 21                         | --                                   | 490                              | 370                            |                                       |
| CU- 677              | 05  | 9W  | 27 | 301445093162201 | 11205LC | 568                | 80-10-28                    | 0945           | 422  | 7.1                                | 22.5       | --                    | 51                         | --                                   | --                               | --                             | --                                    |
|                      |     |     |    |                 | 11205LC | 568                | 81-06-03                    | 1000           | 439  | 7.0                                | 26.0       | 82                    | 56                         | --                                   | 1400                             | 360                            |                                       |

1/See footnote at end of table.

PARTIAL CHEMICAL ANALYSES FOR MONITOR WELLS, OCTOBER 1980 TO SEPTEMBER 1981

| LOCAL<br>IDENT-<br>IFIER    |     |     |    | STATION NUMBER  | GEO-<br>LOGIC<br>UNIT<br>1/ | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | DATE<br>OF<br>SAMPLE | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-----------------------------|-----|-----|----|-----------------|-----------------------------|-----------------------------------------|----------------------|------|---------------------------------------------------|---------------|-----------------------------|----------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------|------------------------------------------------------|
| CALCASIEU PARISH--Continued |     |     |    |                 |                             |                                         |                      |      |                                                   |               |                             |                                        |                                                     |                                              |                                            |                                                      |
| CU- 689                     | 10S | 9W  | 19 | 301059093190301 | 11205LC                     | 531                                     | 80-10-16             | 1030 | 1100                                              | 7.3           | 23.5                        | --                                     | 240                                                 | .3                                           | --                                         | --                                                   |
|                             |     |     |    |                 | 11205LC                     | 531                                     | 81-05-28             | 1130 | 1170                                              | 7.2           | 24.0                        | 270                                    | 260                                                 | --                                           | 740                                        | 560                                                  |
| CU- 690                     | 10S | 9W  | 18 | 301144093193901 | 11205LC                     | 601                                     | 80-10-16             | 1410 | 416                                               | 7.2           | 23.5                        | --                                     | 45                                                  | --                                           | --                                         | --                                                   |
|                             |     |     |    |                 | 11205LC                     | 601                                     | 81-05-28             | 1200 | 409                                               | 7.2           | 24.0                        | 110                                    | 42                                                  | --                                           | 950                                        | 400                                                  |
| CU- 692                     | 10S | 10W | 13 | 301112093201601 | 11205LC                     | 560                                     | 80-10-15             | 1015 | 388                                               | 7.2           | 22.5                        | --                                     | 24                                                  | --                                           | --                                         | --                                                   |
|                             |     |     |    |                 | 11205LC                     | 560                                     | 81-05-29             | 1155 | 396                                               | 7.3           | 23.0                        | 120                                    | 25                                                  | --                                           | 110                                        | 260                                                  |
| CU- 694                     | 10S | 9W  | 19 | 301044093195101 | 11205LC                     | 556                                     | 80-10-16             | 1130 | 1420                                              | 7.2           | 23.5                        | --                                     | --                                                  | .5                                           | --                                         | --                                                   |
|                             |     |     |    |                 | 11205LC                     | 556                                     | 81-05-28             | 1000 | 1490                                              | 7.6           | 23.5                        | 180                                    | 370                                                 | --                                           | --                                         | 420                                                  |
| CU- 699                     | 10S | 9W  | 19 | 301027093191501 | 11205LC                     | 530                                     | 80-10-16             | 1100 | 458                                               | 7.3           | 23.5                        | --                                     | 36                                                  | .1                                           | --                                         | --                                                   |
|                             |     |     |    |                 | 11205LC                     | 530                                     | 81-05-28             | 1055 | 464                                               | 7.4           | 24.0                        | 140                                    | 34                                                  | --                                           | --                                         | 260                                                  |
| CU- 725                     | 9S  | 9W  | 33 | 301404093170501 | 11207LC                     | 640                                     | 81-02-23             | 1300 | 404                                               | --            | --                          | 64                                     | 59                                                  | --                                           | --                                         | --                                                   |
| CU- 737                     | 10S | 9W  | 3  | 301315093165501 | 11207LC                     | 700                                     | 81-02-26             | 1345 | 665                                               | --            | --                          | 180                                    | 110                                                 | .2                                           | --                                         | --                                                   |
| CU- 754                     | 9S  | 9W  | 33 | 301345093170501 | 11205LC                     | 570                                     | 81-05-11             | 1245 | 948                                               | 7.1           | --                          | 130                                    | 190                                                 | .2                                           | 1500                                       | --                                                   |
| CU- 767                     | 10S | 8W  | 20 | 301036093124401 | 11207LC                     | 850                                     | 81-02-09             | 1400 | 2670                                              | --            | --                          | 510                                    | 770                                                 | 1.0                                          | --                                         | --                                                   |
| CU- 769                     | 10S | 9W  | 5  | 301336093183001 | 11207LC                     | 642                                     | 81-02-23             | 1000 | 1050                                              | --            | 24.0                        | 56                                     | 210                                                 | .3                                           | --                                         | --                                                   |
| CU- 778                     | 10S | 9W  | 19 | 301046093191202 | 11205LC                     | 525                                     | 80-10-16             | 1315 | 928                                               | 7.3           | 23.0                        | --                                     | 180                                                 | .2                                           | --                                         | --                                                   |
|                             |     |     |    |                 | 11205LC                     | 525                                     | 81-05-28             | 1115 | 916                                               | 7.4           | 23.5                        | 210                                    | 180                                                 | --                                           | --                                         | 430                                                  |
| CU- 784                     | 10S | 9W  | 9  | 301218093175803 | 11205LC                     | 532                                     | 81-02-10             | 1000 | 807                                               | --            | 23.5                        | 200                                    | 160                                                 | .2                                           | --                                         | --                                                   |
| CU- 786U                    | 11S | 8W  | 6  | 300820093131903 | 11207LC                     | 840                                     | 81-02-25             | 0945 | 851                                               | --            | 25.0                        | 140                                    | 160                                                 | .2                                           | --                                         | --                                                   |
| CU- 786L                    | 11S | 8W  | 6  | 300820093131904 | 11207LC                     | 880                                     | 81-02-25             | 0945 | 1370                                              | --            | 25.0                        | 130                                    | 280                                                 | .4                                           | --                                         | --                                                   |
| CU- 788                     | 10S | 11W | 36 | 300825093260801 | 11207LC                     | 805                                     | 81-02-03             | 1000 | 2330                                              | --            | --                          | 180                                    | 580                                                 | .6                                           | --                                         | --                                                   |
| CU- 789                     | 10S | 9W  | 19 | 301100093200001 | 11207LC                     | 640                                     | 81-02-03             | 1245 | 1080                                              | --            | --                          | 160                                    | 250                                                 | .3                                           | --                                         | --                                                   |
| CU- 827                     | 10S | 9W  | 18 | 301134093191101 | 11205LC                     | 560                                     | 81-05-15             | 1230 | 753                                               | 7.5           | --                          | 150                                    | 130                                                 | .1                                           | 180                                        | --                                                   |
| CU- 828                     | 10S | 9W  | 18 | 301149093190801 | 11205LC                     | 560                                     | 81-05-15             | 1250 | 943                                               | 7.1           | 25.0                        | 160                                    | 190                                                 | .2                                           | 1000                                       | --                                                   |
|                             |     |     |    |                 | 11205LC                     | 560                                     | 81-07-16             | 1300 | 943                                               | 7.3           | 25.0                        | --                                     | 190                                                 | --                                           | 960                                        | 490                                                  |
| CU- 830                     | 9S  | 9W  | 28 | 301508093171301 | 11205LC                     | 498                                     | 80-10-29             | 1400 | 341                                               | 7.0           | 23.5                        | --                                     | 31                                                  | --                                           | --                                         | --                                                   |
|                             |     |     |    |                 | 11205LC                     | 498                                     | 81-06-03             | 1155 | 347                                               | 7.0           | --                          | 100                                    | 29                                                  | --                                           | 960                                        | 370                                                  |
| CU- 831                     | 9S  | 9W  | 27 | 301510093170001 | 11205LC                     | 497                                     | 80-10-29             | 1435 | 331                                               | 6.9           | 24.0                        | --                                     | 28                                                  | --                                           | --                                         | --                                                   |
| CU- 834                     | 9S  | 9W  | 27 | 301444093164501 | 11205LC                     | 533                                     | 80-10-29             | 1330 | 371                                               | 7.2           | 24.0                        | --                                     | 35                                                  | --                                           | --                                         | --                                                   |
|                             |     |     |    |                 | 11205LC                     | 533                                     | 81-06-03             | 1120 | 370                                               | 7.3           | 25.0                        | 92                                     | 35                                                  | --                                           | 900                                        | 350                                                  |

1/See footnote at end of table.



## PARTIAL CHEMICAL ANALYSES FOR MONITOR WELLS, OCTOBER 1980 TO SEPTEMBER 1981

| LOCAL<br>IDENT-<br>I-<br>FIER |     |     |    | STATION         | NUMRER | GEO-<br>LOGIC<br>UNIT<br>1/ | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | DATE<br>OF<br>SAMPLE | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br><br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------------------------------|-----|-----|----|-----------------|--------|-----------------------------|-----------------------------------------|----------------------|------|---------------------------------------------------|-------------------|-----------------------------|----------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------|------------------------------------------------------|
| CALCASIEU PARISH--Continued   |     |     |    |                 |        |                             |                                         |                      |      |                                                   |                   |                             |                                        |                                                     |                                              |                                            |                                                      |
| CU- 840                       | 10S | 9W  | 3  | 301339093170102 |        | 11205LC                     | 500                                     | 81-05-11             | 1300 | 552                                               | 7.2               | --                          | 120                                    | 74                                                  | .2                                           | 1300                                       | --                                                   |
| CU- 842                       | 10S | 9W  | 18 | 301148093193201 |        | 11205LC                     | 575                                     | 81-02-04             | 1330 | 1520                                              | --                | --                          | 140                                    | 380                                                 | .4                                           | --                                         | --                                                   |
| CU- 843                       | 10S | 9W  | 18 | 301148093193202 |        | 11202LC                     | 205                                     | 81-02-03             | 1430 | 525                                               | --                | 21.0                        | 180                                    | 56                                                  | --                                           | --                                         | --                                                   |
| CU- 848                       | 10S | 10W | 24 | 301043093201601 |        | 11205LC                     | 542                                     | 81-02-09             | 1030 | 1270                                              | --                | 23.0                        | 300                                    | 300                                                 | .3                                           | --                                         | --                                                   |
| CU- 850                       | 10S | 9W  | 7  | 301200093191901 |        | 11205LC                     | 548                                     | 81-02-10             | 1200 | 1710                                              | --                | 23.0                        | 210                                    | 440                                                 | .4                                           | --                                         | --                                                   |
| CU- 851                       | 10S | 9W  | 7  | 301213093191701 |        | 11205LC                     | 555                                     | 81-02-11             | 1115 | 1760                                              | --                | --                          | 160                                    | 440                                                 | .4                                           | --                                         | --                                                   |
| CU- 852                       | 10S | 9W  | 7  | 301153093192101 |        | 11205LC                     | 560                                     | 81-02-10             | 1315 | 1240                                              | --                | --                          | 140                                    | 280                                                 | .4                                           | --                                         | --                                                   |
| CU- 857                       | 10S | 9W  | 18 | 301122093195401 |        | 11205LC                     | 550                                     | 80-10-15             | 1330 | 370                                               | 6.9               | 23.0                        | --                                     | 30                                                  | --                                           | --                                         | --                                                   |
|                               |     |     |    |                 |        |                             | 550                                     | 81-05-29             | 0915 | 380                                               | 7.0               | --                          | 110                                    | 29                                                  | --                                           | 1300                                       | 380                                                  |
| CU- 860                       | 10S | 9W  | 18 | 301052093194401 |        | 11205LC                     | 566                                     | 80-10-16             | 1440 | 521                                               | 7.0               | 23.0                        | --                                     | 71                                                  | --                                           | --                                         |                                                      |
|                               |     |     |    |                 |        |                             | 566                                     | 81-05-28             | 1220 | 496                                               | 7.1               | 23.5                        | 120                                    | 64                                                  | --                                           | 1100                                       | 420                                                  |
| CU- 861                       | 10S | 9W  | 5  | 301330093181701 |        | 11202LC                     | 225                                     | 81-05-15             | 1105 | 399                                               | 7.4               | 22.0                        | 120                                    | 17                                                  | --                                           | --                                         | --                                                   |
| CU- 863                       | 10S | 9W  | 18 | 301108093192301 |        | 11205LC                     | 540                                     | 80-10-16             | 1505 | 500                                               | 7.2               | 23.5                        | --                                     | 58                                                  | --                                           | --                                         | --                                                   |
|                               |     |     |    |                 |        |                             | 540                                     | 81-05-28             | 0945 | 615                                               | 7.4               | 23.5                        | 170                                    | 88                                                  | --                                           | --                                         | 400                                                  |
| CU- 867                       | 9S  | 9W  | 33 | 301351093173001 |        | 11205LC                     | 500                                     | 81-05-11             | 1400 | 401                                               | 7.1               | --                          | 110                                    | 42                                                  | --                                           | --                                         | --                                                   |
| CU- 868                       | 9S  | 9W  | 33 | 301340093174101 |        | 11205LC                     | 520                                     | 81-05-11             | 1415 | 467                                               | 7.2               | --                          | 110                                    | 52                                                  | --                                           | --                                         | --                                                   |
| CU- 869                       | 9S  | 9W  | 33 | 301349093171501 |        | 11205LC                     | 526                                     | 81-05-11             | 1430 | 527                                               | 7.3               | --                          | 120                                    | 75                                                  | .1                                           | 1000                                       | --                                                   |
| CU- 949                       | 10S | 9W  | 4  | 301334093175301 |        | 11205LC                     | 504                                     | 81-05-15             | 0900 | 892                                               | 7.3               | 24.0                        | 94                                     | 170                                                 | .2                                           | 1500                                       | --                                                   |
| CU- 951                       | 10S | 9W  | 4  | 301328093175701 |        | 11205LC                     | 500                                     | 81-05-15             | 0915 | 529                                               | 7.1               | 24.0                        | 100                                    | 70                                                  | .2                                           | 960                                        | --                                                   |
| CU- 955                       | 10S | 9W  | 3  | 301335093165201 |        | 11205LC                     | 459                                     | 81-05-08             | 1115 | 403                                               | 7.5               | --                          | 120                                    | 28                                                  | --                                           | 960                                        | --                                                   |
| CU- 956                       | 11S | 9W  | 1  | 300742093145201 |        | 11205LC                     | 648                                     | 81-05-06             | --   | 418                                               | --                | --                          | --                                     | 17                                                  | --                                           | --                                         | --                                                   |
| CU- 957                       | 10S | 9W  | 18 | 301120093191002 |        | 11205LC                     | 500                                     | 81-05-15             | 1230 | 706                                               | 7.4               | --                          | 180                                    | 120                                                 | .2                                           | 760                                        | --                                                   |
| CU- 970                       | 11S | 5W  | 18 | 300534092564401 |        | 11205LC                     | 780                                     | 81-02-24             | 1500 | 2760                                              | --                | 25.0                        | 40                                     | 760                                                 | .9                                           | --                                         | --                                                   |
| CU- 971                       | 11S | 5W  | 18 | 300534092564402 |        | 112CHCTU                    | 500                                     | 81-02-24             | 1500 | 1360                                              | --                | 24.0                        | 110                                    | 300                                                 | .4                                           | --                                         | --                                                   |
| CU- 976                       | 10S | 9W  | 8  | 301129093183001 |        | 11205LC                     | 550                                     | 81-02-11             | 1315 | 1380                                              | --                | 23.0                        | 230                                    | 340                                                 | .4                                           | --                                         | --                                                   |
| CU- 987                       | 9S  | 9W  | 33 | 301341093174801 |        | 11202LC                     | 200                                     | 81-05-15             | 0955 | 399                                               | 8.1               | 21.5                        | 120                                    | 17                                                  | --                                           | 100                                        | --                                                   |
| CU-1016                       | 9S  | 9W  | 29 | 301456093182401 |        | 11205LC                     | 425                                     | 81-03-06             | 1415 | 377                                               | 6.9               | 23.0                        | 110                                    | 36                                                  | --                                           | 2100                                       | 370                                                  |

1/See footnote at end of table.

PARTIAL CHEMICAL ANALYSES FOR MONITOR WELLS, OCTOBER 1980 TO SEPTEMBER 1981

| LOCAL<br>IDENT-<br>I-<br>FIER |     |    |    | STATION NUMBER  | GEO-<br>LOGIC<br>UNIT<br>1/ | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | DATE<br>OF<br>SAMPLE | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------------------------------|-----|----|----|-----------------|-----------------------------|-----------------------------------------|----------------------|------|---------------------------------------------------|---------------|-----------------------------|----------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------|------------------------------------------------------|
| CALCASIEU PARISH--Continued   |     |    |    |                 |                             |                                         |                      |      |                                                   |               |                             |                                        |                                                     |                                              |                                            |                                                      |
| CU-1023                       | 10S | 9W | 3  | 301331093164701 | 11207LC                     | 701                                     | 81-05-08             | 1055 | 793                                               | 7.1           | 26.0                        | 110                                    | 150                                                 | .2                                           | 960                                        | --                                                   |
| CU-1024                       | 10S | 6W | 17 | 301056093004401 | 112CHCTU                    | 350                                     | 81-06-16             | --   | 1040                                              | --            | --                          | --                                     | 140                                                 | --                                           | --                                         | --                                                   |
| CU-1040                       | 9S  | 9W | 33 | 301404093170507 | 11205LC                     | 352                                     | 81-02-23             | 1400 | 411                                               | --            | 22.0                        | 130                                    | 30                                                  | --                                           | --                                         | --                                                   |
| CU-1041                       | 11S | 9W | 9  | 300702093165801 | 11205LC                     | 560                                     | 81-02-12             | 1115 | 429                                               | --            | 23.5                        | 120                                    | 28                                                  | --                                           | --                                         | --                                                   |
| CU-1046                       | 9S  | 9W | 7  | 301711093190402 | 11207LC                     | 688                                     | 81-02-04             | 0930 | 378                                               | --            | --                          | 90                                     | 44                                                  | --                                           | --                                         | --                                                   |
| CU-1048                       | 9S  | 9W | 31 | 301410093193301 | 11207LC                     | 705                                     | 81-02-04             | 1230 | 422                                               | --            | 23.5                        | 60                                     | 48                                                  | --                                           | --                                         | --                                                   |
| CU-1056                       | 9S  | 9W | 35 | 301406093155202 | 11205LC                     | 505                                     | 81-05-07             | 1315 | 619                                               | 6.8           | --                          | 130                                    | 97                                                  | --                                           | 1400                                       | --                                                   |
| CU-1057                       | 9S  | 9W | 35 | 301405093153602 | 11205LC                     | 510                                     | 81-05-07             | 1000 | 404                                               | 6.9           | 24.5                        | 110                                    | 42                                                  | --                                           | 1600                                       | --                                                   |
| CU-1059                       | 10S | 9W | 4  | 301329093171402 | 11202LC                     | 200                                     | 81-05-08             | 0945 | 426                                               | 7.5           | --                          | 100                                    | 15                                                  | --                                           | 20                                         | --                                                   |
| CU-1060                       | 10S | 9W | 4  | 301339093173101 | 11202LC                     | 200                                     | 81-05-11             | 1345 | 436                                               | 7.3           | --                          | 120                                    | 18                                                  | --                                           | 730                                        | --                                                   |
| CU-1062                       | 11S | 9W | 9  | 300642093173301 | 11205LC                     | 651                                     | 80-10-21             | 1100 | 620                                               | 7.4           | --                          | --                                     | 85                                                  | --                                           | --                                         | --                                                   |
| EAST BATON ROUGE PARISH       |     |    |    |                 |                             |                                         |                      |      |                                                   |               |                             |                                        |                                                     |                                              |                                            |                                                      |
| EB- 151                       | 7S  | 1E | 82 | 302641091085801 | 12223BR                     | 2658                                    | 80-11-10             | 0805 | 353                                               | --            | --                          | 4                                      | 1.5                                                 | --                                           | --                                         | --                                                   |
| EB- 298                       | 7S  | 1E | 81 | 302638091090801 | 12112BR                     | 1387                                    | 81-05-07             | 0955 | 387                                               | --            | --                          | 3                                      | 1.8                                                 | --                                           | --                                         | --                                                   |
| EB- 413                       | 7S  | 1E | 81 | 302642091083201 | 12115BR                     | 1745                                    | 80-11-10             | 0800 | 320                                               | --            | --                          | 2                                      | 2.3                                                 | --                                           | --                                         | --                                                   |
| EB- 434                       | 7S  | 1W | 49 | 302619091104003 | 11206BR                     | 611                                     | 80-11-05             | 0935 | 483                                               | --            | --                          | 34                                     | 62                                                  | --                                           | --                                         | --                                                   |
| EB- 444                       | 7S  | 1W | 48 | 302655091112401 | 12220BR                     | 2172                                    | 80-11-10             | 0835 | 392                                               | --            | --                          | 2                                      | 1.6                                                 | --                                           | --                                         | --                                                   |
| EB- 500                       | 7S  | 1W | 46 | 302654091101101 | 11206BR                     | 710                                     | 80-10-22             | 1015 | 11000                                             | --            | --                          | 1900                                   | 3800                                                | --                                           | --                                         | --                                                   |
| EB- 569                       | 7S  | 1W | 65 | 302312091111701 | 12115BR                     | 2170                                    | 80-11-25             | 0855 | 1670                                              | --            | --                          | 9                                      | 350                                                 | --                                           | --                                         | --                                                   |
| EB- 575                       | 8S  | 1W | 68 | 302149091101401 | 12220BR                     | 2500                                    | 80-11-25             | 0955 | 1190                                              | --            | --                          | 2                                      | 220                                                 | --                                           | --                                         | --                                                   |
| EB- 611                       | 8S  | 2E | 50 | 302149091012401 | 11204BR                     | 600                                     | 80-12-01             | 1145 | 791                                               | --            | --                          | 12                                     | 140                                                 | --                                           | --                                         | --                                                   |
| EB- 621                       | 7S  | 1E | 39 | 302500091052501 | 12112BR                     | 1487                                    | 80-11-10             | 0935 | 410                                               | --            | --                          | 8                                      | 23                                                  | --                                           | --                                         | --                                                   |
|                               |     |    |    |                 | 12112BR                     | 1487                                    | 81-05-20             | 1500 | 426                                               | --            | --                          | 8                                      | 28                                                  | --                                           | --                                         | --                                                   |
| EB- 674                       | 7S  | 1W | 48 | 302656091101301 | 12220BR                     | 2250                                    | 80-11-25             | 0830 | 372                                               | --            | --                          | 2                                      | 2.0                                                 | --                                           | --                                         | --                                                   |
| EB- 681                       | 8S  | 2E | 50 | 302147091012301 | 112SLBR                     | 289                                     | 80-12-01             | 1145 | 739                                               | --            | --                          | 86                                     | 13                                                  | --                                           | --                                         | --                                                   |
| EB- 725                       | 7S  | 1E | 43 | 302431091074601 | 11204BR                     | 598                                     | 80-11-25             | 1055 | 415                                               | --            | --                          | 10                                     | 36                                                  | --                                           | --                                         | --                                                   |

1/See footnote at end of table.

## PARTIAL CHEMICAL ANALYSES FOR MONITOR WELLS, OCTOBER 1980 TO SEPTEMBER 1981

| LOCAL<br>IDENT-<br>I-<br>FIR       |    |    |    | STATION         | NUMBER  | GEO-<br>LOGIC<br>UNIT<br>1/ | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | DATE<br>OF<br>SAMPLE | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|------------------------------------|----|----|----|-----------------|---------|-----------------------------|-----------------------------------------|----------------------|------|---------------------------------------------------|---------------|-----------------------------|----------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------|------------------------------------------------------|
| EAST BATON ROUGE PARISH--Continued |    |    |    |                 |         |                             |                                         |                      |      |                                                   |               |                             |                                        |                                                     |                                              |                                            |                                                      |
| FR- 733                            | 7S | 1F | 81 | 302647091083301 | 12223RR |                             | 2637                                    | 80-11-10             | 0755 | 343                                               | --            | --                          | 4                                      | 1.8                                                 | --                                           | --                                         | --                                                   |
| FR- 750                            | 6S | 1W | 75 | 303141091114801 | 12228RR |                             | 2643                                    | 80-11-10             | 0910 | 691                                               | --            | --                          | 4                                      | 42                                                  | --                                           | --                                         | --                                                   |
| FR- 760R                           | 8S | 2F | 5  | 302250091021202 | 11204RR |                             | 640                                     | 80-11-28             | 1130 | 786                                               | --            | --                          | 33                                     | 120                                                 | --                                           | --                                         | --                                                   |
| FR- 771                            | 7S | 1F | 81 | 302646091083801 | 12115RR |                             | 1739                                    | 80-11-10             | 0755 | 315                                               | --            | --                          | 2                                      | 2.6                                                 | --                                           | --                                         | --                                                   |
| FR- 778                            | 7S | 1E | 94 | 302509091082701 | 12220RR |                             | 2586                                    | 80-10-29             | 1220 | 1000                                              | --            | --                          | 4                                      | 160                                                 | --                                           | --                                         | --                                                   |
| FR- 780A                           | 7S | 1F | 94 | 302509091082702 | 12112RR |                             | 1622                                    | 80-10-29             | 1340 | 2850                                              | --            | --                          | 110                                    | 820                                                 | --                                           | --                                         | --                                                   |
| FR- 780R                           | 7S | 1F | 94 | 302509091082703 | 12115RR |                             | 1913                                    | 80-10-29             | 1135 | 1690                                              | --            | --                          | 8                                      | 360                                                 | --                                           | --                                         | --                                                   |
| FR- 781                            | 7S | 1F | 94 | 302535091090401 | 12220RR |                             | 2286                                    | 80-11-14             | 1410 | 6030                                              | --            | --                          | 110                                    | 1900                                                | --                                           | --                                         | --                                                   |
| FR- 782A                           | 7S | 1F | 94 | 302535091090402 | 12110RR |                             | 1189                                    | 80-11-14             | 1030 | 1760                                              | --            | --                          | 18                                     | 450                                                 | --                                           | --                                         | --                                                   |
| FR- 782R                           | 7S | 1E | 94 | 302535091090403 | 12115RR |                             | 1681                                    | 80-11-14             | 1035 | 1770                                              | --            | --                          | 64                                     | 470                                                 | --                                           | --                                         | --                                                   |
|                                    |    |    |    |                 | 12115RR |                             | 1681                                    | 81-05-05             | 1150 | 2010                                              | --            | --                          | 75                                     | 530                                                 | --                                           | --                                         | --                                                   |
| FR- 783A                           | 7S | 1W | 54 | 302502091113601 | 12115RR |                             | 2179                                    | 80-10-29             | 1000 | 566                                               | --            | --                          | 4                                      | 63                                                  | --                                           | --                                         | --                                                   |
| FR- 783R                           | 7S | 1W | 54 | 302502091113602 | 12220RR |                             | 2675                                    | 80-10-29             | 0950 | 3380                                              | --            | --                          | 10                                     | 800                                                 | --                                           | --                                         | --                                                   |
| FR- 789A                           | 7S | 1E | 93 | 302511091070401 | 11204RR |                             | 711                                     | 80-11-07             | 1050 | 1170                                              | --            | --                          | 27                                     | 270                                                 | --                                           | --                                         | --                                                   |
| FR- 789R                           | 7S | 1F | 93 | 302511091070402 | 12115RR |                             | 1721                                    | 80-10-29             | 1450 | 3330                                              | --            | --                          | 120                                    | 990                                                 | --                                           | --                                         | --                                                   |
|                                    |    |    |    |                 | 12115RR |                             | 1721                                    | 81-05-07             | 1115 | 3500                                              | --            | --                          | 120                                    | 1000                                                | --                                           | --                                         | --                                                   |
| FR- 793                            | 7S | 1W | 71 | 302719091103201 | 11206RR |                             | 687                                     | 80-10-22             | 1115 | 325                                               | --            | --                          | 3                                      | 1.8                                                 | --                                           | --                                         | --                                                   |
|                                    |    |    |    |                 | 11206RR |                             | 687                                     | 81-05-05             | 0900 | 326                                               | --            | --                          | 3                                      | 2.2                                                 | --                                           | --                                         | --                                                   |
| FR- 794                            | 7S | 1W | 52 | 302559091110801 | 12224RR |                             | 2709                                    | 80-11-03             | 1035 | 487                                               | --            | --                          | 32                                     | 11                                                  | --                                           | --                                         | --                                                   |
|                                    |    |    |    |                 | 12224RR |                             | 2709                                    | 81-05-08             | 1455 | 505                                               | --            | --                          | 41                                     | 12                                                  | --                                           | --                                         | --                                                   |
| FR- 798                            | 6S | 1W | 39 | 303133091103101 | 12228RR |                             | 2647                                    | 80-11-10             | 0855 | 739                                               | --            | --                          | 4                                      | 72                                                  | --                                           | --                                         | --                                                   |
| FR- 803A                           | 8S | 2E | 5  | 302306091022601 | 12115RR |                             | 1975                                    | 80-11-21             | 1215 | 818                                               | --            | --                          | 2                                      | 74                                                  | --                                           | --                                         | --                                                   |
| FR- 803R                           | 8S | 2F | 5  | 302306091022602 | 12220RR |                             | 2565                                    | 80-11-20             | 1555 | 2040                                              | --            | --                          | 26                                     | 510                                                 | --                                           | --                                         | --                                                   |
| FR- 804A                           | 7S | 1F | 70 | 302428091035001 | 12117RR |                             | 1950                                    | 80-11-10             | 1240 | 383                                               | --            | --                          | 2                                      | 1.7                                                 | --                                           | --                                         | --                                                   |
| FR- 804R                           | 7S | 1F | 70 | 302428091035002 | 12224RR |                             | 2762                                    | 80-11-10             | 1245 | 421                                               | --            | --                          | 3                                      | 2.3                                                 | --                                           | --                                         | --                                                   |
| FR- 805                            | 7S | 1F | 70 | 302428091035003 | 12110RR |                             | 1072                                    | 80-11-10             | 1355 | 15300                                             | --            | --                          | 1900                                   | 5400                                                | --                                           | --                                         | --                                                   |
|                                    |    |    |    |                 | 12110RR |                             | 1072                                    | 81-05-08             | 0915 | 15900                                             | --            | --                          | 2000                                   | 5700                                                | --                                           | --                                         | --                                                   |
| FR- 806R                           | 7S | 1W | 72 | 302702091103902 | 12224RR |                             | 2579                                    | 80-11-05             | 1300 | 357                                               | --            | --                          | 5                                      | 1.0                                                 | --                                           | --                                         | --                                                   |

1/See footnote at end of table.

PARTIAL CHEMICAL ANALYSES FOR MONITOR WELLS, OCTOBER 1980 TO SEPTEMBER 1981

| LOCAL<br>IDENT-<br>I-<br>FIFR      |     |     |     | STATION         | NUMBR    | GEO-<br>LOGIC<br>UNIT<br>1/ | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | DATE<br>OF<br>SAMPLE | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|------------------------------------|-----|-----|-----|-----------------|----------|-----------------------------|-----------------------------------------|----------------------|------|---------------------------------------------------|---------------|-----------------------------|----------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------|------------------------------------------------------|
| EAST BATON ROUGE PARISH--Continued |     |     |     |                 |          |                             |                                         |                      |      |                                                   |               |                             |                                        |                                                     |                                              |                                            |                                                      |
| ER- 807A                           | 7S  | 1F  | 96  | 302611091091201 | 12115RR  | 1713                        | 80-11-12                                | 1045                 | 3450 | --                                                | --            | 64                          | 1000                                   | --                                                  | --                                           | --                                         | --                                                   |
|                                    |     |     |     |                 | 12115RR  | 1713                        | 81-05-06                                | 1145                 | 3880 | --                                                | --            | 82                          | 1200                                   | --                                                  | --                                           | --                                         | --                                                   |
| ER- 807R                           | 7S  | 1F  | 96  | 302611091091202 | 12220RR  | 2264                        | 80-11-12                                | 1120                 | 380  | --                                                | --            | 4                           | 6.1                                    | --                                                  | --                                           | --                                         | --                                                   |
|                                    |     |     |     |                 | 12220RR  | 2264                        | 81-05-06                                | 1105                 | 387  | --                                                | --            | 4                           | 8.0                                    | --                                                  | --                                           | --                                         | --                                                   |
| ER- 815                            | 7S  | 1F  | 52  | 302425091062301 | 11204RR  | 645                         | 80-12-02                                | 1000                 | 330  | --                                                | --            | 7                           | 12                                     | --                                                  | --                                           | --                                         | --                                                   |
| ER- 816                            | 7S  | 1F  | 62  | 302534091054501 | 11204RR  | 520                         | 80-12-01                                | 0930                 | 315  | --                                                | --            | 16                          | 5.6                                    | --                                                  | --                                           | --                                         | --                                                   |
| ER- 817                            | 7S  | 1W  | 74  | 302644091101801 | 12220RR  | 2284                        | 80-11-10                                | 0825                 | 359  | --                                                | --            | 2                           | 3.6                                    | --                                                  | --                                           | --                                         | --                                                   |
| ER- 822                            | 7S  | 1W  | 54  | 302510091105003 | 11204RR  | 573                         | 80-11-03                                | 1205                 | 2780 | --                                                | --            | 340                         | 820                                    | --                                                  | --                                           | --                                         | --                                                   |
| ER- 864                            | 7S  | 1F  | 100 | 302512091042301 | 11204RR  | 549                         | 80-10-09                                | 1500                 | 269  | 7.0                                               | --            | 8                           | 2.7                                    | --                                                  | 70                                           | 54                                         | --                                                   |
| ER- 870                            | 7S  | 1W  | 44  | 302729091100601 | 11206RR  | 692                         | 80-10-22                                | 1255                 | 288  | --                                                | --            | 16                          | 1.5                                    | --                                                  | --                                           | --                                         | --                                                   |
|                                    |     |     |     |                 | 11206RR  | 692                         | 81-05-05                                | 0955                 | 290  | --                                                | --            | 15                          | 2.4                                    | --                                                  | --                                           | --                                         | --                                                   |
| ER- 894                            | 8S  | 2F  | 5   | 302251091021201 | 1125LAR  | 519                         | 80-11-28                                | 1125                 | 362  | --                                                | --            | 13                          | 10                                     | --                                                  | --                                           | --                                         | --                                                   |
| ER- 917                            | 7S  | 1F  | 95  | 302614091083001 | 12115RR  | 1736                        | 80-11-07                                | 1340                 | 304  | --                                                | --            | 0                           | 1.7                                    | --                                                  | --                                           | --                                         | --                                                   |
|                                    |     |     |     |                 | 12115RR  | 1736                        | 81-05-06                                | 1505                 | 306  | --                                                | --            | 1                           | 2.2                                    | --                                                  | --                                           | --                                         | --                                                   |
| ER- 918                            | 7S  | 1E  | 91  | 302547091074401 | 12115RR  | 1834                        | 80-11-06                                | 0945                 | 318  | --                                                | --            | 3                           | 1.9                                    | --                                                  | --                                           | --                                         | --                                                   |
|                                    |     |     |     |                 | 12115RR  | 1834                        | 81-05-07                                | 1435                 | 318  | --                                                | --            | 3                           | 2.0                                    | --                                                  | --                                           | --                                         | --                                                   |
| ER-1000                            | 6S  | 1W  | 69  | 303251091115001 | 12228RR  | 2926                        | 80-11-12                                | 1340                 | 817  | --                                                | --            | 2                           | 76                                     | --                                                  | --                                           | --                                         | --                                                   |
| IBERVILLE PARISH                   |     |     |     |                 |          |                             |                                         |                      |      |                                                   |               |                             |                                        |                                                     |                                              |                                            |                                                      |
| 2/IR- 39R                          | 7S  | 10F | 38  | 302520091261501 | 12220RR  | 2504                        | 80-11-05                                | 1445                 | 1200 | --                                                | --            | 10                          | 230                                    | --                                                  | 20                                           | 0                                          | --                                                   |
| IR- 198                            | 7S  | 9F  | 29  | 302926091310401 | 12224RR  | 2246                        | 80-11-20                                | 1300                 | 445  | --                                                | --            | 1                           | 1.4                                    | --                                                  | --                                           | --                                         | --                                                   |
| IR- 231                            | 9S  | 13F | 3   | 301541091073101 | 11200MRO | 370                         | 80-11-20                                | 0940                 | 1060 | --                                                | --            | 92                          | 120                                    | --                                                  | --                                           | --                                         | --                                                   |
|                                    |     |     |     |                 | 11200MRO | 370                         | 81-05-13                                | 1430                 | 963  | --                                                | --            | 95                          | 100                                    | --                                                  | --                                           | --                                         | --                                                   |
| IR- 232                            | 9S  | 13E | 3   | 301539091072801 | 11200MRO | 370                         | 80-11-20                                | 1000                 | 1770 | --                                                | --            | 89                          | 340                                    | --                                                  | --                                           | --                                         | --                                                   |
|                                    |     |     |     |                 | 11200MRO | 370                         | 81-05-13                                | 1440                 | 1800 | --                                                | --            | 88                          | 350                                    | --                                                  | --                                           | --                                         | --                                                   |
| JEFFERSON DAVIS PARISH             |     |     |     |                 |          |                             |                                         |                      |      |                                                   |               |                             |                                        |                                                     |                                              |                                            |                                                      |
| JD- 118                            | 9S  | 4W  | 35  | 301348092451601 | 112CHCT  | 305                         | 81-06-16                                | --                   | 451  | --                                                | --            | --                          | 49                                     | --                                                  | --                                           | --                                         | --                                                   |
| JD- 195                            | 10S | 4W  | 18  | 301058092484701 | 112CHCTU | 157                         | 81-04-07                                | --                   | 439  | --                                                | --            | --                          | 48                                     | --                                                  | --                                           | --                                         | --                                                   |
| JD- 447                            | 8S  | 6W  | 24  | 302051092563601 | 112CHCT  | 262                         | 81-03-26                                | --                   | 332  | --                                                | --            | --                          | 46                                     | --                                                  | --                                           | --                                         | --                                                   |
|                                    |     |     |     |                 | 112CHCT  | 262                         | 81-04-09                                | --                   | 332  | --                                                | --            | --                          | 46                                     | --                                                  | --                                           | --                                         | --                                                   |

1/See footnote at end of table.

2/Dissolved sulfate (SO<sub>4</sub>), 7.4 mg/L.

## PARTIAL CHEMICAL ANALYSES FOR MONITOR WELLS, OCTOBER 1980 TO SEPTEMBER 1981

| LOCAL IDENTIFIER                  |     |     |     | STATION         | NUMER   | GFO-LOGIC UNIT<br>1/ | DEPTH OF WELL, TOTAL (FEET) | DATE OF SAMPLE       | TIME     | SPF-CIFIC CONDUCT-ANCE (UMHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | HARD-NESS (MG/L AS CAC03) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) | BROMIDE DIS-SOLVED (MG/L AS BR) | IRON, DIS-SOLVED (UG/L AS FE) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) |
|-----------------------------------|-----|-----|-----|-----------------|---------|----------------------|-----------------------------|----------------------|----------|--------------------------------|------------|----------------------|---------------------------|------------------------------------|---------------------------------|-------------------------------|-------------------------------------|
| JEFFERSON DAVIS PARISH--Continued |     |     |     |                 |         |                      |                             |                      |          |                                |            |                      |                           |                                    |                                 |                               |                                     |
| JD- 505                           | 10S | 6W  | 3   | 301258092584001 |         | 112CHCTU<br>112CHCTU | 321<br>321                  | 81-04-30<br>81-06-16 | --<br>-- | 1400<br>1400                   | --<br>--   | --<br>--             | --<br>--                  | 320<br>300                         | .5<br>--                        | --<br>--                      | --<br>--                            |
| JD- 544                           | 6S  | 3W  | 34  | 302853092415003 |         | 112CHCT              | 449                         | 81-08-05             | --       | 292                            | --         | --                   | 64                        | 33                                 | --                              | 6700                          | 500                                 |
| JD- 595                           | 9S  | 6W  | 36  | 301350092561301 |         | 112CHCT              | 280                         | 81-03-24             | --       | 640                            | --         | --                   | --                        | 77                                 | --                              | --                            | --                                  |
| LIVINGSTON PARISH                 |     |     |     |                 |         |                      |                             |                      |          |                                |            |                      |                           |                                    |                                 |                               |                                     |
| LI- 194                           | 5S  | 3F  | 11  | 303736090522301 |         | 112UPTC              | 200                         | 81-06-02             | 1800     | 61                             | 4.6        | --                   | 10                        | 6.3                                | --                              | 710                           | --                                  |
| LI- 195                           | 5S  | 3F  | 27  | 303515090531501 |         | 12102FP              | 1280                        | 81-06-02             | 1700     | 82                             | 5.0        | --                   | 20                        | 6.0                                | --                              | 60                            | --                                  |
| ST. JAMES PARISH                  |     |     |     |                 |         |                      |                             |                      |          |                                |            |                      |                           |                                    |                                 |                               |                                     |
| SJ- 18                            | 12S | 4F  | 40  | 300043090472701 |         | 112GRMC              | 285                         | 81-03-10             | 1100     | 994                            | --         | --                   | 180                       | 46                                 | --                              | --                            | --                                  |
| ST. JOHN THE BAPTIST PARISH       |     |     |     |                 |         |                      |                             |                      |          |                                |            |                      |                           |                                    |                                 |                               |                                     |
| SJB- 165                          | 10S | 8E  | 5   | 301247090245901 |         | 12203FP              | 3000                        | 81-07-29             | 1530     | 815                            | --         | --                   | 3                         | 38                                 | --                              | --                            | --                                  |
| SJB- 171                          | 12S | 19E | 101 | 300215090341601 |         | 112GRMC              | 318                         | 81-03-10             | 1430     | 1940                           | --         | 21.0                 | 260                       | 450                                | --                              | --                            | --                                  |
| ST. TAMMANY PARISH                |     |     |     |                 |         |                      |                             |                      |          |                                |            |                      |                           |                                    |                                 |                               |                                     |
| ST- 563                           | 9S  | 14E | 15  | 301536089470501 |         | 120SLDL              | 2411                        | 80-11-25             | 1130     | 415                            | --         | 37.0                 | 6                         | 4.4                                | --                              | --                            | --                                  |
| ST- 735                           | 9S  | 14E | 33  | 301303089471501 |         | 120SLDL              | 2655                        | 80-11-25             | 1000     | 478                            | --         | 34.5                 | 4                         | 5.5                                | --                              | --                            | --                                  |
| WEST BATON ROUGE PARISH           |     |     |     |                 |         |                      |                             |                      |          |                                |            |                      |                           |                                    |                                 |                               |                                     |
| WBR- 35                           | 7S  | 12E | 68  | 302657091124201 |         | 12112RR              | 1290                        | 80-11-20             | 1600     | 302                            | --         | --                   | 0                         | 1.8                                | --                              | --                            | --                                  |
| WBR- 37                           | 7S  | 12E | 69  | 302613091121501 |         | 12112RR              | 1356                        | 80-10-31             | 0830     | 760                            | --         | --                   | 10                        | 120                                | --                              | --                            | --                                  |
|                                   |     |     |     |                 | 12112RR | 1356                 | 81-05-14                    | 0900                 | 740      | --                             | --         | 10                   | 110                       | --                                 | --                              | --                            |                                     |
| WBR- 97B                          | 7S  | 12E | 70  | 302546091131402 |         | 12115RR              | 2200                        | 80-10-23             | 1525     | 511                            | --         | --                   | 6                         | 55                                 | --                              | --                            | --                                  |
|                                   |     |     |     |                 | 12115RR | 2200                 | 81-05-08                    | 1220                 | 578      | --                             | --         | 7                    | 74                        | --                                 | --                              | --                            |                                     |
| WBR- 100A                         | 7S  | 12E | 68  | 302652091121401 |         | 12117RR              | 1888                        | 80-10-23             | 1300     | 316                            | --         | --                   | 6                         | 1.8                                | --                              | --                            | --                                  |
| WBR- 100B                         | 7S  | 12E | 68  | 302652091121402 |         | 12224RR              | 2448                        | 80-10-23             | 1150     | 354                            | --         | --                   | 3                         | .9                                 | --                              | --                            | --                                  |
| WBR- 101                          | 7S  | 12E | 91  | 302726091145501 |         | 12112RR              | 1367                        | 80-10-24             | 1305     | 306                            | --         | --                   | 1                         | 2.4                                | --                              | --                            | --                                  |
| WBR- 102A                         | 7S  | 12E | 7   | 302806091172601 |         | 12112RR              | 1288                        | 80-10-24             | 1040     | 269                            | --         | --                   | 6                         | 4.4                                | --                              | --                            | --                                  |
| WBR- 102B                         | 7S  | 12E | 7   | 302806091172602 |         | 12220RR              | 2100                        | 80-10-24             | 1135     | 372                            | --         | --                   | 2                         | .9                                 | --                              | --                            | --                                  |

1/See footnote at end of table.

PARTIAL CHEMICAL ANALYSES FOR MONITOR WELLS, OCTOBER 1980 TO SEPTEMBER 1981

| LOCAL<br>IDENT-<br>I-<br>FIER      | STATION | NUMRER | GEO-<br>LOGIC<br>UNIT<br>1/ | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | DATE<br>OF<br>SAMPLE | TIME     | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |    |
|------------------------------------|---------|--------|-----------------------------|-----------------------------------------|----------------------|----------|---------------------------------------------------|---------------|-----------------------------|----------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------|------------------------------------------------------|----|
| WEST BATON ROUGE PARISH--Continued |         |        |                             |                                         |                      |          |                                                   |               |                             |                                        |                                                     |                                              |                                            |                                                      |    |
| WBR- 106                           | 7S 12E  | 93     | 302703091133703             | 12220RR                                 | 2017                 | 80-11-18 | 0955                                              | 414           | --                          | --                                     | 2                                                   | 1.5                                          | --                                         | --                                                   | -- |
| WBR- 111                           | 7S 12E  | 70     | 302550091124101             | 12220RR                                 | 2650                 | 80-10-31 | 0810                                              | 612           | --                          | --                                     | 13                                                  | 2.0                                          | --                                         | --                                                   | -- |
|                                    |         |        |                             | 12220RR                                 | 2650                 | 81-05-14 | 0730                                              | 627           | --                          | --                                     | 11                                                  | 3.0                                          | --                                         | --                                                   | -- |
| WBR- 112                           | 7S 12E  | 70     | 302550091124102             | 12115RR                                 | 2205                 | 80-10-31 | 0815                                              | 546           | --                          | --                                     | 4                                                   | 57                                           | --                                         | --                                                   | -- |
|                                    |         |        |                             | 12115RR                                 | 2205                 | 81-05-14 | 0745                                              | 564           | --                          | --                                     | 4                                                   | 61                                           | --                                         | --                                                   | -- |
| WBR- 113                           | 7S 12E  | 70     | 302547091123201             | 12115RR                                 | 2242                 | 80-10-31 | 0820                                              | 867           | --                          | --                                     | 12                                                  | 130                                          | --                                         | --                                                   | -- |
|                                    |         |        |                             | 12115RR                                 | 2242                 | 81-05-14 | 0800                                              | 883           | --                          | --                                     | 12                                                  | 130                                          | --                                         | --                                                   | -- |
| WBR- 114                           | 8S 12E  | 5      | 302421091134402             | 12115RR                                 | 2146                 | 80-10-14 | 1430                                              | 584           | --                          | --                                     | 4                                                   | 83                                           | --                                         | --                                                   | -- |
| WBR- 132                           | 7S 12E  | 74     | 302505091132001             | 12115RR                                 | 2082                 | 80-10-14 | 1330                                              | 315           | --                          | --                                     | 1                                                   | 1.8                                          | --                                         | --                                                   | -- |
| WBR- 137                           | 7S 12E  | 93     | 302657091142101             | 12112RR                                 | 1330                 | 80-11-21 | 0930                                              | 292           | --                          | --                                     | 2                                                   | 2.6                                          | --                                         | --                                                   | -- |
| WBR- 147                           | 7S 12E  | 70     | 302559091122001             | 12110RR                                 | 1292                 | 80-11-20 | 1335                                              | 2840          | --                          | --                                     | 38                                                  | 780                                          | --                                         | --                                                   | -- |
| WBR- 148                           | 7S 11E  | 23     | 302702091185101             | 12112RR                                 | 1304                 | 80-10-27 | 1150                                              | 339           | --                          | --                                     | 1                                                   | 1.9                                          | --                                         | --                                                   | -- |

1/Geologic unit (aquifer):

112ACFL-Atchafalaya aquifer, Pleistocene age.  
 112CHCT-Chicot aquifer, Pleistocene age.  
 112CHCTU-Chicot aquifer, upper sand unit, Pleistocene age.  
 112DDMRO-Deltaic deposits of Mississippi River valley, older, Pleistocene age.  
 112GRMC-Gramercy aquifer, Pleistocene age.  
 112GZNO-Gonzales-New Orleans aquifer, Pleistocene age.  
 112MRVA-Mississippi River alluvial aquifer, Pleistocene age.  
 112PLQM-Plaquemine aquifer, Pleistocene age.  
 112SLBR-Shallow sands of Baton Rouge area, Pleistocene age.  
 112UPTC-Upland terrace deposits, Pleistocene age.  
 11202LC-"200-foot" sand of Lake Charles area, Pleistocene age.  
 11204BR-"400-foot" sand of Baton Rouge-Gonzales area, Pleistocene age.  
 11205LC-"500-foot" sand of Lake Charles area, Pleistocene age.  
 11206BR-"600-foot" sand of Baton Rouge-Gonzales area, Pleistocene age.  
 11207LC-"700-foot" sand of Lake Charles area, Pleistocene age.  
 120SLDL-Slidell aquifer, Pliocene age.  
 121EVGL-Evangeline aquifer, Pliocene-Miocene age.  
 12102FP-Zone 2 Florida Parishes and Pointe Coupee Parish, Pliocene age.  
 12110BR-"1000-foot" sand of Baton Rouge area, Pliocene age.  
 12112BR-"1200-foot" sand of Baton Rouge area, Pliocene age.  
 12115BR-"1500-foot" sand of Baton Rouge area, Pliocene age.  
 12117BR-"1700-foot" sand of Baton Rouge area, Pliocene age.  
 12203FP-Zone 3 Florida Parishes and Pointe Coupee Parish, Miocene age.  
 12220BR-"2000-foot" sand of Baton Rouge area, Miocene age.  
 12223BR-"2000-2400 foot" sand of Baton Rouge area, Miocene age.  
 12224BR-"2400-foot" sand of Baton Rouge area, Miocene age.  
 12228BR-"2800-foot" sand of Baton Rouge area, Miocene age.



QUALITY OF GROUND WATER  
MISCELLANEOUS CHEMICAL ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

| LOCAL<br>IDENT-<br>I-<br>FIFR |     |     |     |  | STATION NUMBER  | GEO-<br>LOGIC<br>UNIT<br>1/   | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | DATE<br>OF<br>SAMPLE                | TIME             | SPF-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(UNITS)     | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) |
|-------------------------------|-----|-----|-----|--|-----------------|-------------------------------|-----------------------------------------|-------------------------------------|------------------|---------------------------------------------------|-------------------|-----------------------------|----------------------------------------------|
| CALCASIEU PARISH              |     |     |     |  |                 |                               |                                         |                                     |                  |                                                   |                   |                             |                                              |
| CU- 3                         | 9S  | AW  | 31  |  | 301425093130501 | 11207LC<br>11207LC            | 686<br>686                              | 80-10-08<br>81-03-03                | --<br>0830       | 620<br>716                                        | 6.9<br>6.9        | 22.0<br>22.5                | 0<br>--                                      |
| CU- 457                       | 9S  | AW  | 31  |  | 301424093125301 | 11207LC<br>11207LC            | 697<br>697                              | 2/ 80-10-08<br>81-07-10             | --<br>--         | 552<br>560                                        | 6.8<br>6.6        | --<br>25.0                  | 0<br>0                                       |
| CU- 501                       | 9S  | AW  | 32  |  | 301425093124201 | 11207LC<br>11207LC            | 687<br>687                              | 80-10-08<br>81-03-03                | --<br>0910       | 666<br>703                                        | 6.8<br>6.9        | 22.0<br>22.5                | 0<br>--                                      |
| CU- 579                       | 7S  | 10W | 18  |  | 302718093252801 | 121EV6L                       | 652                                     | 2/ 81-08-05                         | 1100             | 265                                               | 6.5               | 25.0                        | 0                                            |
| CU- 661                       | 10S | AW  | 8   |  | 301154093123801 | 11207LC                       | 729                                     | 81-03-03                            | 0930             | 946                                               | 7.3               | 23.5                        | --                                           |
| CU- 683                       | 10S | AW  | 8   |  | 301155093123801 | 11205LC<br>11205LC<br>11205LC | 497<br>497<br>497                       | 80-10-09<br>81-03-03<br>2/ 81-07-10 | --<br>0955<br>-- | 404<br>417<br>414                                 | 7.2<br>7.3<br>7.0 | 23.0<br>23.0<br>23.0        | 0<br>--<br>0                                 |
| CU- 684                       | 10S | AW  | 20  |  | 301036093124502 | 11205LC<br>11205LC            | 548<br>548                              | 80-10-09<br>81-03-03                | --<br>1045       | 401<br>452                                        | 7.2<br>7.5        | 23.5<br>23.5                | 5<br>--                                      |
| CU- 708                       | 10S | AW  | 20  |  | 301036093124301 | 11205LC<br>11205LC            | 549<br>549                              | 80-10-09<br>81-03-03                | --<br>1115       | 704<br>839                                        | 7.3<br>7.2        | 23.5<br>23.5                | 0<br>--                                      |
| CU- 797                       | 9S  | AW  | 31  |  | 301424093131001 | 11205LC                       | 503                                     | 81-03-03                            | 0850             | 391                                               | 7.0               | --                          | --                                           |
| CU- 805                       | 10S | AW  | 2   |  | 301313093094401 | 11205LC                       | 518                                     | 81-03-03                            | 1020             | 545                                               | 7.2               | 23.5                        | --                                           |
| CU- 806                       | 10S | AW  | 2   |  | 301312093094101 | 11205LC                       | 516                                     | 80-10-09                            | --               | 559                                               | 6.9               | 23.0                        | 0                                            |
| CU-1003                       | 9S  | 9W  | 23  |  | 301625093153001 | 11205LC                       | 492                                     | 80-10-10                            | 0900             | 302                                               | 6.8               | --                          | 5                                            |
| CU-1016                       | 9S  | 9W  | 29  |  | 301456093182401 | 11205LC                       | 425                                     | 80-10-10                            | 1030             | 373                                               | 6.9               | 23.5                        | 0                                            |
| CU-1061                       | 10S | AW  | 8   |  | 301156093123901 | 11205LC                       | 495                                     | 80-10-09                            | --               | 408                                               | 7.2               | 23.0                        | 0                                            |
| CU-1079                       | 10S | 7W  | 8   |  | 301143093063401 | 11202LC                       | 195                                     | 81-06-29                            | 1230             | 614                                               | 7.9               | --                          | 0                                            |
| EAST BATON ROUGE PARISH       |     |     |     |  |                 |                               |                                         |                                     |                  |                                                   |                   |                             |                                              |
| ER- 991B                      | 7S  | 1F  | 24  |  | 302508091035402 | 11204BR                       | 565                                     | 80-11-24                            | 1015             | 267                                               | 7.2               | 23.0                        | 5                                            |
| ER-1016A                      | 7S  | 1F  | 62  |  | 302537091033001 | 12115BR                       | 1465                                    | 80-11-24                            | --               | 301                                               | 8.8               | 29.0                        | 10                                           |
| ER-1025                       | 7S  | 1F  | 62  |  | 302537091032801 | 12224BR                       | 2678                                    | 80-11-24                            | 0940             | 424                                               | 8.6               | 35.5                        | 10                                           |
| ER-1028                       | 7S  | 1W  | 53  |  | 302605091100901 | 12220BR                       | 2238                                    | 81-05-20                            | 1215             | 619                                               | 8.2               | --                          | 5                                            |
| ER-1029                       | 6S  | 2F  | 44  |  | 303034091002201 | 12220BR                       | 2043                                    | 81-06-23                            | 1700             | 212                                               | 7.7               | 29.5                        | 0                                            |
| IBERVILLE PARISH              |     |     |     |  |                 |                               |                                         |                                     |                  |                                                   |                   |                             |                                              |
| IR- 264                       | 9S  | 13F | 8   |  | 301608091082301 | 112PLQM                       | 375                                     | 81-04-29                            | 1330             | 595                                               | 6.9               | 21.0                        | 0                                            |
| IR- 265                       | 9S  | 13F | 8   |  | 301608091082302 | 112MRVA                       | 210                                     | 81-05-13                            | 1315             | 964                                               | 6.6               | 20.5                        | 0                                            |
| JEFFERSON DAVIS PARISH        |     |     |     |  |                 |                               |                                         |                                     |                  |                                                   |                   |                             |                                              |
| JD- 77                        | 10S | 5W  | 9   |  | 301124092531801 | 112CHCTU                      | 350                                     | 81-05-26                            | --               | 465                                               | 7.0               | --                          | --                                           |
| JD- 118                       | 9S  | 4W  | 35  |  | 301348092451601 | 112CHCT                       | 305                                     | 81-05-26                            | --               | 453                                               | 6.9               | --                          | --                                           |
| JD- 447                       | 8S  | 6W  | 24  |  | 302051092563601 | 112CHCT                       | 262                                     | 81-06-04                            | --               | 337                                               | 6.6               | --                          | --                                           |
| JD- 529                       | 9S  | 3W  | 27  |  | 301402092391701 | 112CHCTU                      | 610                                     | 2/ 81-08-05                         | 1500             | 495                                               | 6.4               | 23.0                        | 0                                            |
| JD- 595                       | 9S  | 6W  | 36  |  | 301354092561301 | 112CHCT                       | 280                                     | 81-05-26                            | --               | 640                                               | 7.2               | --                          | --                                           |
| LAFAYETTE PARISH              |     |     |     |  |                 |                               |                                         |                                     |                  |                                                   |                   |                             |                                              |
| LF- 662                       | 9S  | 5F  | 100 |  | 301426092000601 | 112CHCTU                      | 152                                     | 81-09-22                            | --               | 126                                               | --                | --                          | --                                           |
| POINTE COUPEE PARISH          |     |     |     |  |                 |                               |                                         |                                     |                  |                                                   |                   |                             |                                              |
| PC- 244A                      | 6S  | 9F  | 62  |  | 303155091314901 | 12112BR                       | 1168                                    | 80-12-15                            | 1500             | 379                                               | 8.5               | 25.0                        | 0                                            |

1/See footnote at end of previous table.

2/See following table for minor elements.

| LOCAL IDENTIFIER                   |     |     |     | DATE OF SAMPLE                   | HARDNESS (MG/L AS CAC03) | HARDNESS, NONCARBONATE (MG/L CAC03) | CALCIUM DIS-SOLVED (MG/L AS CA) | MAGNESIUM, DIS-SOLVED (MG/L AS MG) | SODIUM, DIS-SOLVED (MG/L AS NA) | POTASSIUM, DIS-SOLVED (MG/L AS K) | ALKALINITY FIELD (MG/L AS CAC03) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLORIDE, DIS-SOLVED (MG/L AS CL) |
|------------------------------------|-----|-----|-----|----------------------------------|--------------------------|-------------------------------------|---------------------------------|------------------------------------|---------------------------------|-----------------------------------|----------------------------------|----------------------------------|-----------------------------------|
| CALCASIEU PARISH--Continued        |     |     |     |                                  |                          |                                     |                                 |                                    |                                 |                                   |                                  |                                  |                                   |
| CU- 3                              | 9S  | 8W  | 31  | 80-10-08<br>81-03-03             | 120<br>130               | 0<br>--                             | 32<br>34                        | 11<br>11                           | 86<br>97                        | 5.0<br>--                         | 141<br>--                        | 2.0<br>--                        | 120<br>140                        |
| CU- 457                            | 9S  | 8W  | 31  | 80-10-08<br>81-07-10             | 110<br>99                | 0<br>0                              | 26<br>26                        | 10<br>8.2                          | 67<br>77                        | 4.0<br>2.4                        | 133<br>136                       | 2.8<br>1.0                       | 92<br>100                         |
| CU- 501                            | 9S  | 8W  | 32  | 80-10-08<br>81-03-03             | 120<br>120               | 0<br>--                             | 31<br>30                        | 10<br>11                           | 89<br>98                        | 5.0<br>--                         | 141<br>--                        | 2.6<br>--                        | 130<br>140                        |
| CU- 579                            | 7S  | 10W | 18  | 81-08-05                         | 32                       | 0                                   | 8.9                             | 2.3                                | 47                              | 1.6                               | 114                              | 1.0                              | 14                                |
| CU- 661                            | 10S | 8W  | 8   | 81-03-03                         | 120                      | --                                  | 28                              | 12                                 | 150                             | --                                | --                               | --                               | 200                               |
| CU- 683                            | 10S | 8W  | 8   | 80-10-09<br>81-03-03<br>81-07-10 | 130<br>140<br>140        | 0<br>--<br>0                        | 40<br>36<br>43                  | 8.0<br>11<br>8.1                   | 37<br>38<br>36                  | 3.0<br>--<br>1.9                  | 176<br>--<br>176                 | 2.4<br>--<br>1.0                 | 26<br>30<br>28                    |
| CU- 684                            | 10S | 8W  | 20  | 80-10-09<br>81-03-03             | 120<br>130               | 0<br>--                             | 36<br>33                        | 7.1<br>12                          | 44<br>48                        | 3.0<br>--                         | 177<br>--                        | .2<br>--                         | 24<br>40                          |
| CU- 708                            | 10S | 8W  | 20  | 80-10-09<br>81-03-03             | 160<br>180               | 0<br>--                             | 45<br>45                        | 11<br>15                           | 79<br>100                       | 4.0<br>--                         | 181<br>--                        | .0<br>--                         | 110<br>160                        |
| CU- 797                            | 9S  | 8W  | 31  | 81-03-03                         | 110                      | --                                  | 31                              | 8.9                                | 36                              | --                                | --                               | --                               | 38                                |
| CU- 805                            | 10S | 8W  | 2   | 81-03-03                         | 120                      | --                                  | 35                              | 9.1                                | 61                              | --                                | --                               | --                               | 80                                |
| CU- 806                            | 10S | 8W  | 2   | 80-10-09                         | 120                      | 0                                   | 35                              | 8.9                                | 64                              | 4.0                               | 151                              | 2.4                              | 80                                |
| CU-1003                            | 9S  | 9W  | 23  | 80-10-10                         | 82                       | 0                                   | 23                              | 6.0                                | 30                              | 3.0                               | 110                              | 4.6                              | 24                                |
| CU-1016                            | 9S  | 9W  | 29  | 80-10-10                         | 110                      | 0                                   | 31                              | 7.9                                | 34                              | 4.0                               | 130                              | 3.4                              | 35                                |
| CU-1061                            | 10S | 8W  | 8   | 80-10-09                         | 130                      | 0                                   | 39                              | 7.7                                | 38                              | 3.0                               | 168                              | 8.6                              | 26                                |
| CU-1079                            | 10S | 7W  | 8   | 81-06-29                         | 80                       | 0                                   | 19                              | 7.9                                | 110                             | 1.6                               | 271                              | .4                               | 40                                |
| EAST BATON ROUGE PARISH--Continued |     |     |     |                                  |                          |                                     |                                 |                                    |                                 |                                   |                                  |                                  |                                   |
| ER- 991R                           | 7S  | 1E  | 24  | 80-11-24                         | 8                        | 0                                   | 2.7                             | .3                                 | 60                              | 2.0                               | 125                              | 7.2                              | 3.2                               |
| ER-1016R                           | 7S  | 1E  | 62  | 80-11-24                         | 4                        | 0                                   | 1.6                             | .0                                 | 71                              | .4                                | 144                              | 11                               | 2.1                               |
| ER-1025                            | 7S  | 1E  | 62  | 80-11-24                         | 5                        | 0                                   | 2.0                             | .0                                 | 100                             | 1.0                               | 203                              | 11                               | 5.4                               |
| ER-1028                            | 7S  | 1W  | 53  | 81-05-20                         | 3                        | 0                                   | 1.0                             | .1                                 | 140                             | 1.0                               | 177                              | 10                               | 74                                |
| ER-1029                            | 6S  | 2E  | 44  | 81-06-23                         | 5                        | 0                                   | 1.6                             | .2                                 | 48                              | .9                                | 98                               | 9.2                              | 2.6                               |
| IBERVILLE PARISH--Continued        |     |     |     |                                  |                          |                                     |                                 |                                    |                                 |                                   |                                  |                                  |                                   |
| IR- 264                            | 9S  | 13F | 8   | 81-04-29                         | 220                      | 0                                   | 56                              | 20                                 | 49                              | 1.0                               | 302                              | .0                               | 12                                |
| IR- 265                            | 9S  | 13F | 8   | 81-05-13                         | 500                      | 0                                   | 140                             | 38                                 | 21                              | 5.0                               | 532                              | .4                               | 5.2                               |
| JEFFERSON DAVIS PARISH--Continued  |     |     |     |                                  |                          |                                     |                                 |                                    |                                 |                                   |                                  |                                  |                                   |
| JN- 77                             | 10S | 5W  | 9   | 81-05-26                         | 140                      | --                                  | 33                              | 13                                 | 45                              | --                                | 143                              | --                               | 50                                |
| JN- 118                            | 9S  | 4W  | 35  | 81-05-26                         | 110                      | --                                  | 26                              | 11                                 | 52                              | --                                | 141                              | --                               | 52                                |
| JN- 447                            | 8S  | 6W  | 24  | 81-06-04                         | 72                       | --                                  | 17                              | 7.2                                | 39                              | --                                | 70                               | --                               | 46                                |
| JN- 529                            | 9S  | 3W  | 27  | 81-08-05                         | 150                      | 0                                   | 41                              | 12                                 | 43                              | 1.6                               | 186                              | 1.0                              | 48                                |
| JN- 595                            | 9S  | 6W  | 36  | 81-05-26                         | 170                      | --                                  | 40                              | 17                                 | 66                              | --                                | 172                              | --                               | 79                                |
| LAFAYETTE PARISH--Continued        |     |     |     |                                  |                          |                                     |                                 |                                    |                                 |                                   |                                  |                                  |                                   |
| LF- 662                            | 9S  | 5F  | 100 | 81-09-22                         | 49                       | --                                  | 14                              | 3.4                                | 12                              | --                                | --                               | --                               | 3.1                               |
| POINTE COUPEE PARISH--Continued    |     |     |     |                                  |                          |                                     |                                 |                                    |                                 |                                   |                                  |                                  |                                   |
| PC- 244A                           | 6S  | 9F  | 62  | 80-12-15                         | 1                        | 0                                   | .2                              | .1                                 | 92                              | .5                                | 179                              | 12                               | 4.7                               |

| LOCAL<br>IDENT-<br>IFIER           | DATE<br>OF<br>SAMPLE | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | NITRO-<br>GEN,<br>NITRATE<br>TOTAL<br>(MG/L<br>AS NO3) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |                   |
|------------------------------------|----------------------|----------------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|------------------------------------------------------|-------------------|
| CALCASIEU PARISH--Continued        |                      |                                                    |                                              |                                                   |                                                                    |                                                                |                                                        |                                            |                                                      |                   |
| CU- 3                              | 9S 8W 31             | 80-10-08<br>81-03-03                               | .2<br>--                                     | .2<br>.2                                          | 51<br>--                                                           | 396<br>--                                                      | 395<br>--                                              | .16<br>--                                  | 2100<br>1400                                         | 540<br>570        |
| CU- 457                            | 9S 8W 31             | 80-10-08<br>81-07-10                               | .2<br>.1                                     | --<br>.2                                          | 49<br>55                                                           | 341<br>331                                                     | 342<br>352                                             | .19<br>--                                  | 1800<br>1900                                         | 480<br>430        |
| CU- 501                            | 9S 8W 32             | 80-10-08<br>81-03-03                               | .2<br>--                                     | .1<br>.2                                          | 49<br>--                                                           | 405<br>--                                                      | 404<br>--                                              | .00<br>--                                  | 2000<br>1600                                         | 580<br>550        |
| CU- 579                            | 7S 10W 18            | 81-08-05                                           | .2                                           | .4                                                | 43                                                                 | 178                                                            | 186                                                    | --                                         | 330                                                  | 47                |
| CU- 661                            | 10S 8W 8             | 81-03-03                                           | --                                           | .3                                                | --                                                                 | --                                                             | --                                                     | --                                         | 540                                                  | 510               |
| CU- 683                            | 10S 8W 8             | 80-10-09<br>81-03-03<br>81-07-10                   | .2<br>--<br>.1                               | --<br>.1<br>.1                                    | 47<br>--<br>51                                                     | 263<br>--<br>273                                               | 270<br>--<br>275                                       | .13<br>--<br>--                            | 350<br>--<br>390                                     | 360<br>340<br>300 |
| CU- 684                            | 10S 8W 20            | 80-10-09<br>81-03-03                               | .2<br>--                                     | --<br>.1                                          | 46<br>--                                                           | 274<br>--                                                      | 269<br>--                                              | .30<br>--                                  | 240<br>--                                            | 280<br>300        |
| CU- 708                            | 10S 8W 20            | 80-10-09<br>81-03-03                               | .2<br>--                                     | .1<br>.2                                          | 46<br>--                                                           | 403<br>--                                                      | 405<br>--                                              | .18<br>--                                  | 360<br>--                                            | 400<br>430        |
| CU- 797                            | 9S 8W 31             | 81-03-03                                           | --                                           | .2                                                | --                                                                 | --                                                             | --                                                     | --                                         | 1100                                                 | 500               |
| CU- 805                            | 10S 8W 2             | 81-03-03                                           | --                                           | --                                                | --                                                                 | --                                                             | --                                                     | --                                         | 120                                                  | 480               |
| CU- 806                            | 10S 8W 2             | 80-10-09                                           | .2                                           | .1                                                | 48                                                                 | 327                                                            | 334                                                    | .11                                        | 330                                                  | 360               |
| CU-1003                            | 9S 9W 23             | 80-10-10                                           | .3                                           | --                                                | 51                                                                 | 215                                                            | 211                                                    | .16                                        | 2400                                                 | 340               |
| CU-1016                            | 9S 9W 29             | 80-10-10                                           | 1.0                                          | --                                                | 50                                                                 | 248                                                            | 247                                                    | .20                                        | 2400                                                 | 390               |
| CU-1061                            | 10S 8W 8             | 80-10-09                                           | .3                                           | .1                                                | 47                                                                 | 268                                                            | 271                                                    | .34                                        | 350                                                  | 320               |
| CU-1079                            | 10S 7W 8             | 81-06-29                                           | .2                                           | --                                                | 18                                                                 | 368                                                            | 361                                                    | .60                                        | --                                                   | 120               |
| EAST BATON ROUGE PARISH--Continued |                      |                                                    |                                              |                                                   |                                                                    |                                                                |                                                        |                                            |                                                      |                   |
| ER- 9918                           | 7S 1E 24             | 80-11-24                                           | .1                                           | --                                                | 41                                                                 | 202                                                            | 192                                                    | .44                                        | 50                                                   | 56                |
| ER-1016R                           | 7S 1E 62             | 80-11-24                                           | .3                                           | --                                                | 29                                                                 | 209                                                            | 202                                                    | .55                                        | 0                                                    | 20                |
| ER-1025                            | 7S 1E 62             | 80-11-24                                           | .3                                           | --                                                | 24                                                                 | 289                                                            | 270                                                    | .89                                        | 30                                                   | 23                |
| ER-1028                            | 7S 1W 53             | 81-05-20                                           | .5                                           | --                                                | 35                                                                 | 384                                                            | 368                                                    | .46                                        | 40                                                   | 15                |
| ER-1029                            | 6S 2E 44             | 81-06-23                                           | .3                                           | --                                                | 54                                                                 | 178                                                            | 176                                                    | .30                                        | 420                                                  | 93                |
| IBERVILLE PARISH--Continued        |                      |                                                    |                                              |                                                   |                                                                    |                                                                |                                                        |                                            |                                                      |                   |
| IR- 264                            | 9S 13E 8             | 81-04-29                                           | .2                                           | --                                                | 32                                                                 | --                                                             | 353                                                    | .21                                        | 1700                                                 | 240               |
| IR- 265                            | 9S 13E 8             | 81-05-13                                           | .3                                           | --                                                | 34                                                                 | 561                                                            | 576                                                    | .44                                        | 11000                                                | 880               |
| JEFFERSON DAVIS PARISH--Continued  |                      |                                                    |                                              |                                                   |                                                                    |                                                                |                                                        |                                            |                                                      |                   |
| JD- 77                             | 10S 5W 9             | 81-05-26                                           | --                                           | --                                                | --                                                                 | --                                                             | --                                                     | --                                         | --                                                   | 330               |
| JD- 118                            | 9S 4W 35             | 81-05-26                                           | --                                           | --                                                | --                                                                 | --                                                             | --                                                     | --                                         | --                                                   | 300               |
| JD- 447                            | 8S 6W 24             | 81-06-04                                           | --                                           | --                                                | --                                                                 | --                                                             | --                                                     | --                                         | 4500                                                 | 380               |
| JD- 529                            | 9S 3W 27             | 81-08-05                                           | .1                                           | .2                                                | 51                                                                 | 299                                                            | 310                                                    | --                                         | 890                                                  | 240               |
| JD- 595                            | 9S 6W 36             | 81-05-26                                           | --                                           | --                                                | --                                                                 | --                                                             | --                                                     | --                                         | --                                                   | 320               |
| LAFAYETTE PARISH--Continued        |                      |                                                    |                                              |                                                   |                                                                    |                                                                |                                                        |                                            |                                                      |                   |
| LF- 662                            | 9S 5E 100            | 81-09-22                                           | --                                           | --                                                | --                                                                 | --                                                             | --                                                     | --                                         | --                                                   | --                |
| POINTE COUPEE PARISH--Continued    |                      |                                                    |                                              |                                                   |                                                                    |                                                                |                                                        |                                            |                                                      |                   |
| PC- 244A                           | 6S 9E 62             | 80-12-15                                           | .3                                           | --                                                | 26                                                                 | 245                                                            | 244                                                    | .34                                        | 20                                                   | 0                 |

| LOCAL<br>IDENT-<br>I-<br>FIFR | STATION NUMBER |    |    | GEO-<br>LOGIC<br>UNIT<br>1/ | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | DATE<br>OF<br>SAMPLE | TIME     | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>CORALT<br>UNITS) |    |
|-------------------------------|----------------|----|----|-----------------------------|-----------------------------------------|----------------------|----------|---------------------------------------------------|---------------|-----------------------------|----------------------------------------------|----|
| ST. MARTIN PARISH             |                |    |    |                             |                                         |                      |          |                                                   |               |                             |                                              |    |
| SMN- 46                       | 7S             | 5F | 44 | 302341091555601             | 112ACFL                                 | 239 2/               | 81-07-10 | --                                                | 677           | 6.7                         | 22.0                                         | 5  |
| SMN- 103                      | 9S             | 6F | 88 | 301308091521001             | 112ACFL                                 | 145                  | 81-03-12 | 1430                                              | 624           | --                          | 21.0                                         | -- |
| SMN- 108                      | 9S             | 7F | 36 | 301304091424001             | 112CHCTU                                | 505                  | 81-03-12 | 1200                                              | 1810          | --                          | --                                           | -- |
| SMN- 109                      | 9S             | 7F | 36 | 301304091424002             | 112CHCTU                                | 375                  | 81-03-12 | 1230                                              | 1110          | --                          | 21.5                                         | -- |
| WEST FELICIANA PARISH         |                |    |    |                             |                                         |                      |          |                                                   |               |                             |                                              |    |
| WF- 269                       | 2S             | 2W | 44 | 304956093191601             | 12203FP                                 | 1625                 | 80-12-16 | 1030                                              | 268           | 8.1                         | 27.0                                         | 0  |

| LOCAL<br>IDENT-<br>I-<br>FIFR    | DATE<br>OF<br>SAMPLE |    |    |          | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>FIELD<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) |
|----------------------------------|----------------------|----|----|----------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|
| ST. MARTIN PARISH--Continued     |                      |    |    |          |                                        |                                                        |                                              |                                                      |                                              |                                                     |                                                 |                                               |                                                     |
| SMN- 46                          | 7S                   | 5F | 44 | 81-07-10 | 240                                    | 0                                                      | 62                                           | 20                                                   | 55                                           | 2.6                                                 | 328                                             | 1.0                                           | 24                                                  |
| SMN- 103                         | 9S                   | 6F | 88 | 81-03-12 | 300                                    | --                                                     | 79                                           | 25                                                   | --                                           | --                                                  | --                                              | --                                            | 4.2                                                 |
| SMN- 108                         | 9S                   | 7F | 36 | 81-03-12 | 260                                    | --                                                     | 64                                           | 23                                                   | --                                           | --                                                  | --                                              | --                                            | 310                                                 |
| SMN- 109                         | 9S                   | 7F | 36 | 81-03-12 | 200                                    | --                                                     | 53                                           | 17                                                   | --                                           | --                                                  | --                                              | --                                            | 96                                                  |
| WEST FELICIANA PARISH--Continued |                      |    |    |          |                                        |                                                        |                                              |                                                      |                                              |                                                     |                                                 |                                               |                                                     |
| WF- 269                          | 2S                   | 2W | 44 | 80-12-16 | 5                                      | 0                                                      | 1.9                                          | .1                                                   | 62                                           | 1.0                                                 | 123                                             | 11                                            | 1.6                                                 |

| LOCAL<br>IDENT-<br>I-<br>FIFR    | DATE<br>OF<br>SAMPLE |    |    | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | NITRO-<br>GEN,<br>NITRATE<br>TOTAL<br>(MG/L<br>AS NO3) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |     |
|----------------------------------|----------------------|----|----|----------------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|------------------------------------------------------|-----|
| ST. MARTIN PARISH--Continued     |                      |    |    |                                                    |                                              |                                                   |                                                                    |                                                                |                                                        |                                            |                                                      |     |
| SMN- 46                          | 7S                   | 5F | 44 | 81-07-10                                           | .1                                           | .1                                                | 41                                                                 | 396                                                            | 403                                                    | --                                         | 4100                                                 | 140 |
| SMN- 103                         | 9S                   | 6F | 88 | 81-03-12                                           | --                                           | .0                                                | --                                                                 | --                                                             | --                                                     | --                                         | --                                                   | --  |
| SMN- 108                         | 9S                   | 7E | 36 | 81-03-12                                           | --                                           | .3                                                | --                                                                 | --                                                             | --                                                     | --                                         | --                                                   | --  |
| SMN- 109                         | 9S                   | 7E | 36 | 81-03-12                                           | --                                           | .1                                                | --                                                                 | --                                                             | --                                                     | --                                         | --                                                   | --  |
| WEST FELICIANA PARISH--Continued |                      |    |    |                                                    |                                              |                                                   |                                                                    |                                                                |                                                        |                                            |                                                      |     |
| WF- 269                          | 2S                   | 2W | 44 | 80-12-16                                           | .6                                           | --                                                | 30                                                                 | 186                                                            | 193                                                    | .04                                        | 140                                                  | 36  |

1/See footnote at end of previous table.

2/See following table for minor elements.

QUALITY OF GROUND WATER  
MINOR ELEMENTS, OCTOBER 1980 TO SEPTEMBER 1981

| LOCAL<br>IDENT-<br>I-<br>FIFR | STATION   | NUMBR           | DATE<br>OF<br>SAMPLE | DENSITY<br>(GM/ML<br>AT<br>20 C) | IODIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS I) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | BORON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS B) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) |
|-------------------------------|-----------|-----------------|----------------------|----------------------------------|---------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------------|--------------------------------------------|----------------------------------------------|
| CALCASIEU PARISH              |           |                 |                      |                                  |                                             |                                              |                                              |                                                      |                                            |                                              |
| CU- 457                       | 9S 8W 31  | 301424093125301 | 81-07-10             | 1.008                            | .06                                         | 0                                            | 310                                          | <1                                                   | 30                                         | <1                                           |
| CU- 579                       | 7S 10W 18 | 302718093252801 | 81-08-05             | 1.016                            | .00                                         | 1                                            | 160                                          | <1                                                   | 70                                         | <1                                           |
| CU- 683                       | 10S 8W 8  | 301155093123801 | 81-07-10             | 1.004                            | .05                                         | 0                                            | 250                                          | <1                                                   | 30                                         | <1                                           |
| JEFFERSON DAVIS PARISH        |           |                 |                      |                                  |                                             |                                              |                                              |                                                      |                                            |                                              |
| JD- 529                       | 9S 3W 27  | 301402092391701 | 81-08-05             | 1.001                            | .00                                         | 1                                            | 280                                          | <1                                                   | 30                                         | <1                                           |
| ST. MARTIN PARISH             |           |                 |                      |                                  |                                             |                                              |                                              |                                                      |                                            |                                              |
| SMN- 46                       | 7S 5F 44  | 302341091555601 | 81-07-10             | 1.005                            | .03                                         | 16                                           | 530                                          | <1                                                   | 70                                         | <1                                           |

| LOCAL<br>IDENT-<br>I-<br>FIFR     | DATE<br>OF<br>SAMPLE | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | CORAL-<br>T, DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) |
|-----------------------------------|----------------------|-----------------------------------------------------|------------------------------------------------|----------------------------------------------|--------------------------------------------|----------------------------------------------|----------------------------------------------|-------------------------------------------------------|-----------------------------------------------------|
| CALCASIEU PARISH--Continued       |                      |                                                     |                                                |                                              |                                            |                                              |                                              |                                                       |                                                     |
| CU- 457                           | 9S 8W 31 81-07-10    | 10                                                  | <3                                             | <10                                          | <10                                        | 25                                           | .1                                           | <10                                                   | 1                                                   |
| CU- 579                           | 7S 10W 18 81-08-05   | 0                                                   | <3                                             | <10                                          | <10                                        | 13                                           | .0                                           | <10                                                   | 0                                                   |
| CU- 683                           | 10S 8W 8 81-07-10    | 10                                                  | <3                                             | <10                                          | 14                                         | 24                                           | .0                                           | <10                                                   | 0                                                   |
| JEFFERSON DAVIS PARISH--Continued |                      |                                                     |                                                |                                              |                                            |                                              |                                              |                                                       |                                                     |
| JD- 529                           | 9S 3W 27 81-08-05    | 0                                                   | <3                                             | <10                                          | <10                                        | 21                                           | .0                                           | <10                                                   | 0                                                   |
| ST. MARTIN PARISH--Continued      |                      |                                                     |                                                |                                              |                                            |                                              |                                              |                                                       |                                                     |
| SMN- 46                           | 7S 5F 44 81-07-10    | 10                                                  | <3                                             | <10                                          | 16                                         | 23                                           | .0                                           | <10                                                   | 0                                                   |

| LOCAL<br>IDENT-<br>I-<br>FIFR     | DATE<br>OF<br>SAMPLE | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-----------------------------------|----------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------|-----------------------------------------------|
| CALCASIEU PARISH--Continued       |                      |                                                      |                                                    |                                            |                                               |
| CU- 457                           | 9S 8W 31 81-07-10    | 250                                                  | <6.0                                               | 10                                         | .4                                            |
| CU- 579                           | 7S 10W 18 81-08-05   | 110                                                  | <6.0                                               | 28                                         | .5                                            |
| CU- 683                           | 10S 8W 8 81-07-10    | 270                                                  | <6.0                                               | 28                                         | 2.4                                           |
| JEFFERSON DAVIS PARISH--Continued |                      |                                                      |                                                    |                                            |                                               |
| JD- 529                           | 9S 3W 27 81-08-05    | 160                                                  | <6.0                                               | 3                                          | 3.1                                           |
| ST. MARTIN PARISH--Continued      |                      |                                                      |                                                    |                                            |                                               |
| SMN- 46                           | 7S 5E 44 81-07-10    | 340                                                  | <6.0                                               | <3                                         | 16                                            |

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



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## 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                  | By                     | To obtain SI units                               |
|--------------------------------------------|------------------------|--------------------------------------------------|
| <i>Length</i>                              |                        |                                                  |
| inches (in)                                | $2.54 \times 10^1$     | millimeters (mm)                                 |
|                                            | $2.54 \times 10^{-2}$  | meters (m)                                       |
| feet (ft)                                  | $3.048 \times 10^{-1}$ | meters (m)                                       |
| miles (mi)                                 | $1.609 \times 10^0$    | kilometers (km)                                  |
| <i>Area</i>                                |                        |                                                  |
| acres                                      | $4.047 \times 10^3$    | square meters (m <sup>2</sup> )                  |
|                                            | $4.047 \times 10^{-1}$ | square hectometers (hm <sup>2</sup> )            |
|                                            | $4.047 \times 10^{-3}$ | square kilometers (km <sup>2</sup> )             |
| square miles (mi <sup>2</sup> )            | $2.590 \times 10^0$    | square kilometers (km <sup>2</sup> )             |
| <i>Volume</i>                              |                        |                                                  |
| gallons (gal)                              | $3.785 \times 10^0$    | liters (L)                                       |
|                                            | $3.785 \times 10^0$    | cubic decimeters (dm <sup>3</sup> )              |
|                                            | $3.785 \times 10^{-3}$ | cubic meters (m <sup>3</sup> )                   |
| million gallons                            | $3.785 \times 10^3$    | cubic meters (m <sup>3</sup> )                   |
|                                            | $3.785 \times 10^{-3}$ | cubic hectometers (hm <sup>3</sup> )             |
| cubic feet (ft <sup>3</sup> )              | $2.832 \times 10^1$    | cubic decimeters (dm <sup>3</sup> )              |
|                                            | $2.832 \times 10^{-2}$ | cubic meters (m <sup>3</sup> )                   |
| cfs-days                                   | $2.447 \times 10^3$    | cubic meters (m <sup>3</sup> )                   |
|                                            | $2.447 \times 10^{-3}$ | cubic hectometers (hm <sup>3</sup> )             |
| acre-feet (acre-ft)                        | $1.233 \times 10^3$    | cubic meters (m <sup>3</sup> )                   |
|                                            | $1.233 \times 10^{-3}$ | cubic hectometers (hm <sup>3</sup> )             |
|                                            | $1.233 \times 10^{-6}$ | cubic kilometers (km <sup>3</sup> )              |
| <i>Flow</i>                                |                        |                                                  |
| cubic feet per second (ft <sup>3</sup> /s) | $2.832 \times 10^1$    | liters per second (L/s)                          |
|                                            | $2.832 \times 10^1$    | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | $2.832 \times 10^{-2}$ | cubic meters per second (m <sup>3</sup> /s)      |
| gallons per minute (gal/min)               | $6.309 \times 10^{-2}$ | liters per second (L/s)                          |
|                                            | $6.309 \times 10^{-2}$ | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | $6.309 \times 10^{-5}$ | cubic meters per second (m <sup>3</sup> /s)      |
| million gallons per day                    | $4.381 \times 10^1$    | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | $4.381 \times 10^{-2}$ | cubic meters per second (m <sup>3</sup> /s)      |
| <i>Mass</i>                                |                        |                                                  |
| tons (short)                               | $9.072 \times 10^{-1}$ | megagrams (Mg) or metric tons                    |



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