Final

# BAYOU CHAUVIN WATERSHED TMDL
# FOR BIOCHEMICAL OXYGEN-DEMANDING SUBSTANCES AND NUTRIENTS

SUBSEGMENTS 120507

SURVEYED SEPTEMBER 9 – 16, 2003

**TMDL REPORT**

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# EXECUTIVE SUMMARY

This report presents the results of a watershed based, calibrated modeling analysis of Bayou Chauvin. The modeling was conducted to establish a TMDL for biochemical oxygen-demanding pollutants for the Bayou Chauvin watershed. The model extends from site BC01 at RKM 14.7 to its confluence with Lake Boudreaux. Bayou Chauvin is located in south Louisiana and this subsegment includes St. Louis Canal, and numerous unnamed pipeline canals as tributaries. Bayou Chauvin is in the Terrebonne Basin and this study includes Water Quality Subsegment 120507. The area is sparsely populated and land use is dominated by water, marsh, and wetlands. There are no permitted dischargers located in this subsegment except pump stations discharging stormwater runoff.

Input data for the calibration model was developed from data collected during the September 2003 intensive survey, data collected by LDEQ monitoring stations in the watershed, and USGS drainage area and low flow publications. The nonpoint source loads included nonpoint loading not associated with flow. A satisfactory calibration was achieved for the main stem. For the projection models, data was taken from ambient temperature records. The Louisiana Total Maximum Daily Load Technical Procedures, 09/22/2003, have been followed in this study.

The various spreadsheets that were used in conjunction with the modeling program may be found in the appendices. Projections were adjusted to meet the dissolved oxygen criteria by reducing total nonpoint source loads.

Modeling was limited to low flow scenarios for both the calibration and the projections since the constituent of concern was dissolved oxygen and the available data was limited to low flow conditions. The model used was LAQUAL, a modified version of QUAL-TX, which has been adapted to address specific needs of Louisiana waters.

Bayou Chauvin, Subsegment 120507, was on the 1999, 2002, and 2004 303(d) list. Subsegment 120507 is found to be "not supporting" any of its designated uses of Primary Contact Recreation, Secondary Contact Recreation, and Fish and Wildlife Propagation. Bayou Chauvin was subsequently scheduled for TMDL development with other listed waters in the Terrebonne Basin. In the draft 2006 303(d) list, the water is fully supporting Primary and Secondary Contact Recreation and is not supporting Fish and Wildlife Propagation. The suspected causes of impairment are low dissolved oxygen and nutrients. The suspected sources are municipal point source discharges, small flow discharges, sanitary sewer overflows, and total retention domestic sewage lagoons. Bayou Chauvin conveys intermittent flow from the Houma stormwater pumps located at a dam across the bayou about 13.6 kilometers from Lake Boudreaux. It is believed that stormwater conveyed by the bayou is primarily responsible for violations of dissolved oxygen criteria. The DO becomes lower towards the bottom at the confluence with Lake Boudreaux due to settling combined with tidal influence. The high chlorides and conductivity values are characteristic of tidal waterbodies. The high chlorophyll a is indicative of the algae blooms present in open waters. Houma is considering moving the stormwater pumps to Bayou Terrebonne which would likely enhance the water quality of Bayou Chauvin. As stated above, no permitted dischargers are located in this subsegment. There is significant oil and gas activity, but these facilities are no longer allowed to discharge into waters of the state. Additionally, the Houma South Wastewater Treatment Plant, though located in this subsegment, discharges to the

Houma Navigation Canal and does not impact Bayou Chauvin.

This TMDL establishes load limitations for oxygen-demanding substances and goals for reduction of those pollutants. LDEQ's position, as supported by the declaratory ruling issued by Secretary Givens in response to the lawsuit regarding water quality criteria for nutrients (Sierra Club v. Givens, 710 So.2d 249 (La. App. 1st Cir. 1997), writ denied, 705 So.2d 1106 (La. 1998), is that when oxygen-demanding substances are controlled and limited in order to ensure that the dissolved oxygen criterion is supported, nutrients are also controlled and limited. The implementation of this TMDL through wastewater discharge permits and implementation of best management practices to control and reduce runoff of soil and oxygen-demanding pollutants from nonpoint sources in the watershed will also control and reduce the nutrient loading from those sources.

A calibrated water quality model for the watershed was developed and projections were modeled to quantify the non-point source load reductions which would be necessary in order for Bayou Chauvin, subsegment 120507 to comply with its established water quality standards and criteria. This report presents the results of that analysis.

The results of the projection modeling for subsegment 120507 show that the water quality standard of 4.0 mg/l for dissolved oxygen can be maintained during the summer critical season with a 43% reduction of total nonpoint pollution. The minimum DO is 4.39 mg/l. Background loading could not be calculated because there were no reference stream studies available for this area.

**Table 1. Total Maximum Daily Load (Sum of UCBOD[1], UNBOD, and SOD)**

| ALLOCATION | SUMMER | | WINTER | |
|---|---|---|---|---|
| | % Reduction Required | (MAR-NOV) (lbs/day) | % Reduction Required | (DEC-FEB) (lbs/day) |
| Point Source WLA | 0 | 0 | 0 | 0 |
| Point Source Reserve MOS (20%) | 0 | 0 | 0 | 0 |
| Manmade Nonpoint Source LA | 43 | 21,106 | 43 | 18,282 |
| Manmade Nonpoint Source Reserve MOS(20%) | 0 | 5,277 | 0 | 4,571 |
| TMDL | | 26,383 | | 22,853 |

***Note1: UCBOD as stated in this allocation is Ultimate CBOD.
UCBOD to $CBOD_5$ ratio = 2.3 for all treatment levels
Permit allocations are generally based on $CBOD_5$***

The results of the projection modeling for subsegment 120507 show that the water quality standard of 4.0 mg/l for dissolved oxygen can be maintained during the winter critical season with the same 43% reduction of total nonpoint pollution. The minimum DO is 6.17 mg/l in subsegment 120507. The TMDL is presented in Table 1. A summary of the point sources is presented in Table 2.

The dissolved oxygen level in Lake Boudreaux at it's confluence with Bayou Chauvin is extremely low. This is believed to be primarily due to the stormwater drainage from the Houma stormwater pumps.

LDEQ will work with other agencies such as local Soil Conservation Districts to implement agricultural best management practices in the watershed through the 319 programs. LDEQ will also continue to monitor the waters to determine whether standards are being attained.

In accordance with Section 106 of the Federal Clean Water Act and under the authority of the Louisiana Environmental Quality Act, the LDEQ has established a comprehensive program for monitoring the quality of the state's surface waters. The LDEQ Surveillance Section collects surface water samples at various locations, utilizing appropriate sampling methods and procedures for ensuring the quality of the data collected. The objectives of the surface water monitoring program are to determine the quality of the state's surface waters, to develop a long-term data base for water quality trend analysis, and to monitor the effectiveness of pollution controls. The data obtained through the surface water monitoring program is used to develop the state's biennial 305(b) report (*Water Quality Inventory*) and the 303 (d) list of impaired waters. This information is also utilized in establishing priorities for the LDEQ nonpoint source program.

The LDEQ is continuing to implement a watershed approach to the surface water quality monitoring. In 2004 a four year sampling cycle replaced the previous five year cycle. Approximately one quarter of the states watersheds will be sampled in each year so that all of the states watersheds will be sampled within the four year cycle. This will allow the LDEQ to determine whether there has been any improvement in water quality following implementation of the TMDLs. As the monitoring results are evaluated at the end of each year, waterbodies may be
added to or removed from the 303(d) list.

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## Introduction

Bayou Chauvin, subsegment 120507, of the Terrebonne Basin is listed on the 1999, 2002, and 2004 303(d) list. The subsegment is listed as not supporting any of its designated uses which are Primary Contact Recreation, Secondary Contact Recreation, and Fish and Wildlife propagation. In the draft 2006 303(d) list, the water is fully supporting Primary and Secondary Contact Recreation and is not supporting Fish and Wildlife Propagation. The suspected causes of impairment are low dissolved oxygen and nutrients. The suspected sources are municipal point source discharges, small flow discharges, sanitary sewer overflows, and total retention domestic sewage lagoons. Bayou Chauvin conveys intermittent flow from the Houma stormwater pumps located at a dam across the bayou about 13.6 kilometers from Lake Boudreaux. It is believed that stormwater conveyed by the bayou is primarily responsible for violations of dissolved oxygen criteria. As stated above, no permitted dischargers are located in this subsegment. There is significant oil and gas activity, but these facilities are no longer allowed to discharge into waters of the state. Additionally, the Houma South Wastewater Treatment Plant, though located in this subsegment, discharges to the Houma Navigation Canal and does not impact Bayou Chauvin. Because of the impairment, this subsegment requires the development of a total maximum daily load (TMDL) for oxygen demand substances and nutrients. A calibrated water quality model for the Bayou Chauvin, subsegment 120507 watershed was developed and projections for current dissolved oxygen standards were run to quantify the wasteload required to meet established dissolved oxygen criteria. This report presents the model development and results.

## 2. Study Area Description

### 2.1 General Information

Terrebonne Basin

"The Terrebonne Basin covers an area extending approximately 120 miles from the Mississippi River on the north to the Gulf of Mexico on the south. It varies in width from 18 miles to 70 miles. This basin is bounded on the west by the Atchafalaya River Basin and on the east by the Mississippi River and Bayou LaFourche. The topography of the entire basin is lowland, and all the land is subject to flooding except the natural "and manmade" levees along major waterways. The coastal portion of the basin is prone to tidal flooding and consists of marshes ranging from fresh to saline." (LA DEQ, 1996)

This TMDL addresses Bayou Chauvin from BC01 at RKM 14.7 to Lake Boudreaux. This subsegment is tidally influenced. Water flows in either direction depending upon tides and wind conditions. The bayou conveys intermittent flow from the Houma stormwater pumps located at a dam across the bayou about 13.6 kilometers from Lake Boudreaux. This area is typical of the basin and is primarily comprised of water, wetlands and marsh as documented in Table 3 (LADEQ, 1999). A detailed land cover map of Subsegment 120507 is also included in Appendix H2. Average annual precipitation in the segment, based on the nearest Louisiana Climatic Station, is 64 inches based on a 30-year period of record (LSU, 1999). There is a Louisiana average annual precipitation map located in Appendix H3.

**Table 2. Land Uses in Segment 120507**

| Land Type | Acres 120507 | Percent Land use 120507 |
|---|---|---|
| Water | 7483.57 | 26.79 |
| Wetland Forest Deciduous | 4900.46 | 17.54 |
| Brackish Marsh | 4520.84 | 16.18 |
| Agriculture/Cropland/Grassland | 3021.23 | 10.81 |
| Fresh Marsh | 2321.35 | 8.31 |
| Vegetated Urban | 1318.35 | 4.72 |
| Wetland S/S Deciduous | 933.39 | 3.34 |
| Wetland S/S Evergreen | 236.18 | 0.85 |
| Upland S/S Mixed | 177.92 | 0.64 |
| Non-Vegetated Urban | 140.11 | 0.50 |
| Upland Forest Mixed | 89.85 | 0.32 |
| Upland Forest Deciduous | 6.00 | 0.02 |
| Upland Barren | 0.67 | 0.00 |

**Figure 1. Model Layout**

# Bayou Chauvin Model Layout
# Subsegment 120507

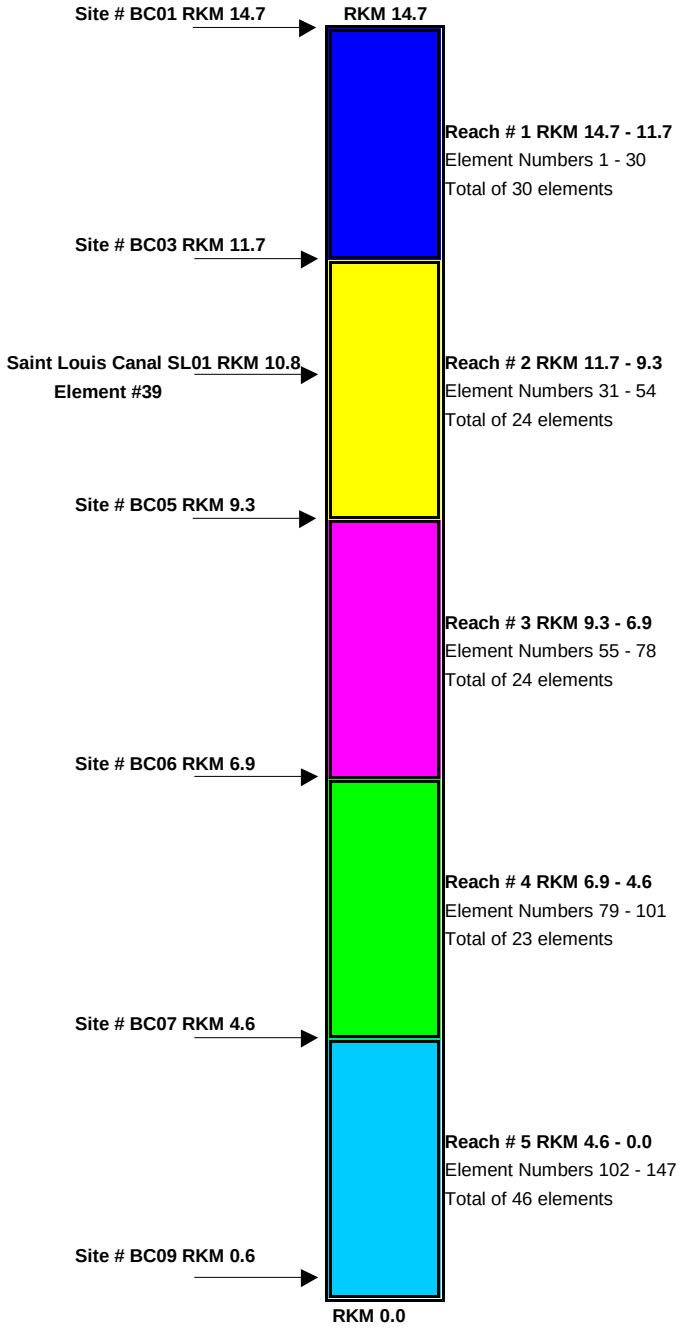
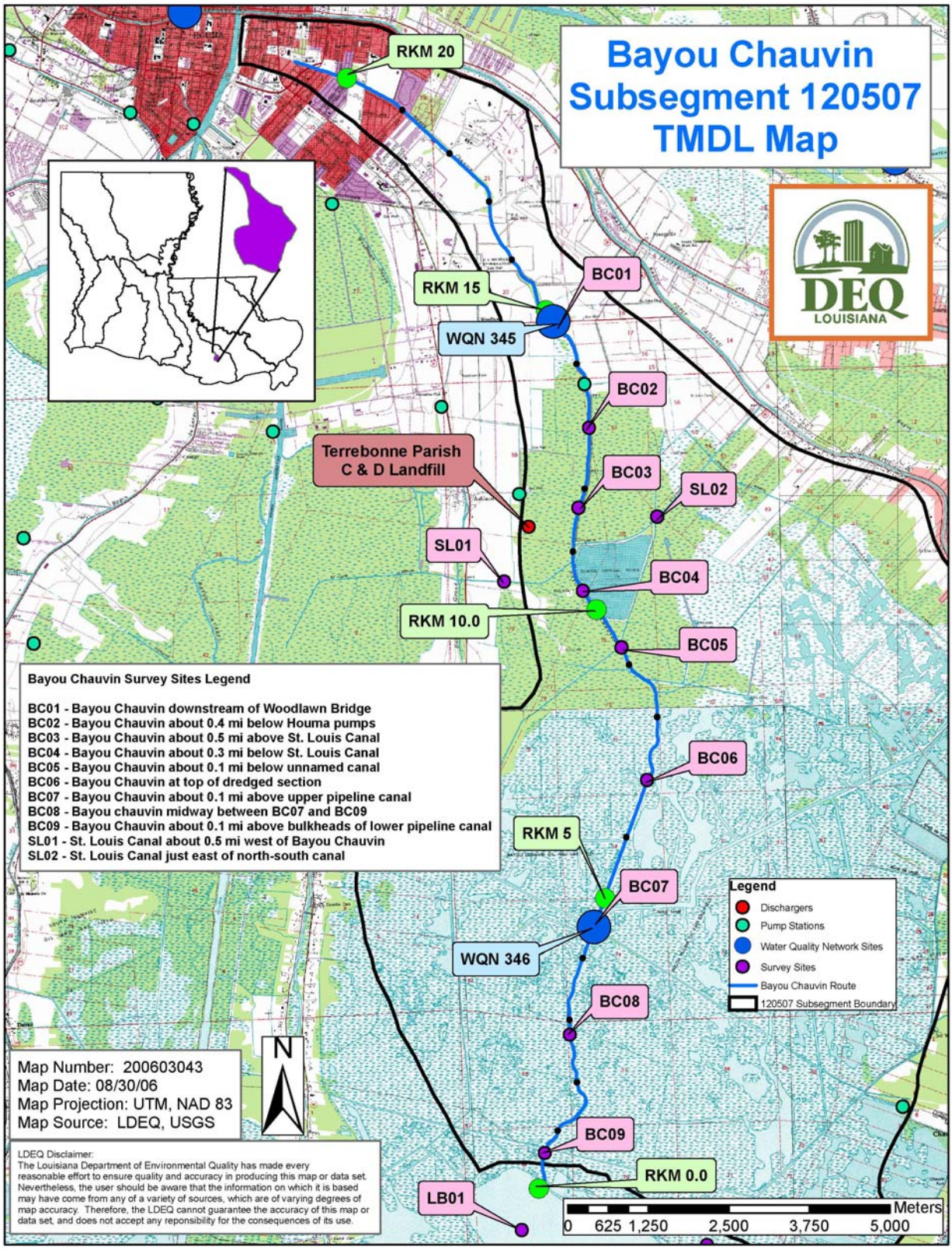


**Figure 2. Map of Study Area**



## 2.2 Water Quality Standards

The Water Quality criteria and designated uses for Bayou Chauvin Watershed are shown in Table 3. As noted in the table, Bayou Chauvin, Subsegment 120507 has a year round dissolved oxygen standard of 4.0 mg/L.

**Table 3. Water Quality Numerical Criteria and Designated Uses**

| Parameter | Value |
|---|---|
| Designated Uses | A B C |
| DO, mg/L | 4.0 |
| Cl, mg/L | N/A |
| $SO_4$, mg/L | N/A |
| pH | 6.5 – 9.0 |
| BAC | 1* |
| Temperature, deg Celsius | 32 |
| TDS, mg/L | N/A |

USES: A – primary contact recreation; B - secondary contact recreation; C – propagation of fish and wildlife; D – drinking water supply; E – oyster propagation; F – agriculture; G – outstanding natural resource water; L – limited aquatic life and wildlife use.

*Note 1 – 200 colonies/100mL maximum log mean and no more than 25% of samples exceeding 400 colonies/100mL for the period May through October; 1,000 colonies/100mL maximum log mean and no more than 25% of samples exceeding 2,000 colonies/100mL for the period November through April.

## 2.3 Wastewater Discharges

No permitted facilities were found to be discharging directly into this subsegment. The primary source of oxygen demanding wastewater is believed to Terrebonne Parish Pump Station D-12, which pumps stormwater from Houma to Bayou Chauvin. There are three minor stormwater pump stations located within subsegment 120507 that may have a minor impact on the water quality of Bayou Chauvin. The location of these pumps is shown in the maps in Appendix H4.

Pump Station D-12 is the main Houma stormwater pumping station. The rest of the pumps shown are small units discharging stormwater from residential areas surrounding subsegment 120507. Pump Station D-06 discharges to a large canal leading to Bayou Chauvin. Pump Stations D-60 and D-36 discharge to marshes adjacent to Bayou Chauvin.

## 2.4 Water Quality Conditions/Assessment

Bayou Chauvin, subsegment 120507, of the Terrebonne Basin is listed on the 2004 303(d) list. This subsegment is listed as not supporting Primary Contact Recreation, Secondary Contact Recreation, and Fish and Wildlife Propagation. The suspected causes of impairment are low dissolved oxygen, and nutrients. The suspected sources are municipal point source discharges, small flow discharges, sanitary sewer overflows, and total retention domestic sewage lagoons. It is believed that stormwater

conveyed by the bayou is primarily responsible for violations of dissolved oxygen criteria. Because of the impairment, this subsegment requires the development of a total maximum daily load (TMDL) for oxygen demanding substances and nutrients.

### 2.5 Prior Studies

LDEQ has two monthly water quality sampling stations on Bayou Chauvin. LDEQ Water Quality Site 345, Bayou Chauvin near Houma, LA has a period of record from February 1991 to April 1998. LDEQ Water Quality Site 346, Bayou Chauvin south of Houma, LA has a period of record from February 2000 to November 2000; January 2004 to November 2004; and January 1991 to May 1998. Data collected during the Eularian survey conducted in September 2003, included discharge data, cross-section data, field in-situ data, continuous monitor data, and lab water quality data. This data was used to establish the input for the model calibration and is presented in Appendix F.

## 3. Documentation Calibration Model

### 3.1 Program Description

"Simulation models are used extensively in water quality planning and pollution control. Models are applied to answer a variety of questions, support watershed planning and analysis and develop total maximum daily loads (TMDLs). . . . Receiving water models simulate the movement and transformation of pollutants through lakes, streams, rivers, estuaries, or near shore ocean areas. . . . Receiving water models are used to examine the interactions between loadings and response, evaluate loading capacities (LCs), and test various loading scenarios. . . . A fundamental concept for the analysis of receiving waterbody response to point and nonpoint source inputs is the principle of mass balance (or continuity). Receiving water models typically develop a mass balance for one or more constituents, taking into account three factors: transport through the system, reactions within the system, and inputs into the system." (EPA841-b-97-006, pp. 1-30)

The model used for this TMDL was LA-QUAL, a steady-state one-dimensional water quality model. LA-QUAL history dates back to the QUAL-I model developed by the Texas Water Development Board with Frank D. Masch & Associates in 1970 and 1971. William A. White wrote the original code.

In June, 1972, the United States Environmental Protection Agency awarded Water Resources Engineers, Inc. (now Camp Dresser & McKee) a contract to modify QUAL-I for application to the Chattahoochee-Flint River, the Upper Mississippi River, the Iowa-Cedar River, and the Santee River. The modified version of QUAL-I was known as QUAL-II.

Over the next three years, several versions of the model evolved in response to specific client needs. In March, 1976, the Southeast Michigan Council of Governments (SEMCOG) contracted with Water Resources Engineers, Inc. to make further modifications and to combine the best features of the existing versions of QUAL-II into a single model. That became known as the QUAL-II/ SEMCOG version.

Between 1978 and 1984, Bruce L. Wiland with the Texas Department of Water Resources modified QUAL-II for application to the Houston Ship Channel estuarine system. Numerous modifications were made to enable modeling this very large and complex system including the addition of tidal dispersion, lower boundary conditions, nitrification inhibition, sensitivity analysis capability, branching tributaries, and various input/output changes. This model became known as QUAL-TX and was subsequently applied to streams throughout the State of Texas.

In 1999, the Louisiana Department of Environmental Quality and Wiland Consulting, Inc. developed LA-QUAL based on QUAL-TX Version 3.4. The program was converted from a DOS-based program to a Windows-based program with a graphical interface and enhanced graphic output. Other program modifications specific to the needs of Louisiana and the Louisiana DEQ were also made. LA-QUAL is a user-oriented model and is intended to provide the basis for evaluating total maximum daily loads in the State of Louisiana.

The development of a TMDL for dissolved oxygen generally occurs in 3 stages. Stage 1 encompasses the data collection activities. These activities may include gathering such information as stream cross-sections, stream flow, stream water chemistry, stream temperature and dissolved oxygen at various locations on the stream, location of the stream centerline and the boundaries of the watershed which drains into the stream, and other physical and chemical factors which are associated with the stream. Additional data gathering activities include gathering all available information on each facility which discharges pollutants in to the stream, gathering all available stream water quality chemistry and flow data from other agencies and groups, gathering population statistics for the watershed to assist in developing projections of future loadings to the water body, land use and crop rotation data where available, and any other information which may have some bearing on the quality of the waters within the watershed. During Stage 1, any data available from reference or least impacted streams which can be used to gauge the relative health of the watershed is also collected.

Stage 2 involves organizing all of this data into one or more useable forms from which the input data required by the model can be obtained or derived. Water quality samples, field measurements, and historical data must be analyzed and statistically evaluated in order to determine a set of conditions which have actually been measured in the watershed. The findings are then input to the model. Best professional judgment is used to determine initial estimates for parameters which were not or could not be measured in the field. These estimated variables are adjusted in sequential runs of the model until the model reproduces the field conditions which were measured. In other words, the model produces a value of dissolved oxygen, temperature, or other parameter which matches the measured value within an acceptable margin of error at the locations along the stream where the measurements were actually made. When this happens, the model is said to be calibrated to the actual stream conditions. At this point, the model should confirm that there is an impairment and give some indications of the causes of the impairment. If a second set of measurements is available for slightly different conditions, the calibrated model is run with these conditions to see of the calibration holds for both sets of data. When this happens, the model is said to be verified.

Stage 3 covers the projection modeling which results in the TMDL. The critical conditions of flow and temperature are determined for the waterbody and the maximum pollutant discharge conditions from the point sources are determined. These conditions are then substituted into the model along with any related condition changes which are required to perform worst case scenario predictions. At this point,

the loadings from the point and nonpoint sources (increased by an acceptable margin of safety) are run at various levels and distributions until the model output shows that dissolved oxygen criteria are achieved. It is critical that a balanced distribution of the point and nonpoint source loads be made in order to predict any success in future achievement of water quality standards. At the end of Stage 3, a TMDL is produced which shows the point source permit limits and the amount of reduction in man-made nonpoint source pollution which must be achieved to attain water quality standards. The man-made portion of the NPS pollution is estimated from the difference between the calibration loads and the loads observed on reference or least impacted streams.

## 3.2 Input Data Documentation

Data collected during an intensive survey conducted from September 9 - 16, 2003, was used to establish the input for the model calibration. The data is presented in Appendix F. The flows in each reach and headwater were estimated based on the discharge measurement at BC09 and stream geometry.

Field and laboratory water quality data were entered in a spreadsheet for ease of analysis. The total CBOD curve presented in Appendix F5 is based on the measured daily CBOD values. The CBOD component was modeled in the LAQUAL model. NBOD simulated organic nitrogen, ammonia nitrogen, and nitrate/nitrite nitrogen. The Louisiana BOD program was applied to the BOD data in a separate spreadsheet and values were computed for each sample taken of ultimate CBOD, CBOD decay rate, CBOD lag time, as well as the NBOD, NBOD decay rate, and NBOD lag time. The survey data was the primary source of the model input data for initial conditions, decay rates, mainstem water temperature, dissolved oxygen loading, headwater temperature, and DO data.

### 3.2.1 Model Schematics and Maps

A vector diagram of the modeled area is presented in Figure 1 and Appendix C1. The vector diagram shows the locations of survey stations, the reach/element design, and the locations of the tributaries included in the model. An ARCVIEW map of the stream and subsegment showing river kilometers, survey stations, subsegment boundary and other points of interest are also included in Figure 2 and Appendix H1.

### 3.2.2 Model Options, Data Type 2

Five constituents were modeled during the calibration process. These were dissolved oxygen, carbonaceous biochemical oxygen demand, nitrogenous biochemical oxygen demand, chloride, and conductivity.

### 3.2.3 Program Constants, Data Type 3

A minimum $K_L$ value of 0.7 m/day was used. This value is a conversion from 2.3 ft/day which is a Louisiana standard minimum. The $K_2$ maximum was set to 25 1/day at $20^o$ C which is the EPA Policy in the absence of a measured value.

The inihibition control value was set to option 3 which is all rates but sediment oxygen demand. The water column dissolved oxygen demand is assumed to come primarily from facultative bacteria under anoxic conditions and SOD is not influenced by modeled dissolved oxygen levels in the upper water column.

The hydraulic calculation method was set to option 2 or "widths and depths." This was done because the low slopes in these waterbodies cause a substantial amount of water to be present in some reaches during critical flow. Using a modified Leopold relationship allows the model to predict a more accurate depth and width during low flow.

The settling rate units were set to option 2 which is 1/day. By making the settling rate a velocity, the rate becomes dependent upon the depth.

The tide height was set to 0.09 meters based upon the continuous monitor at BC09.

The maximum SOD rate was set to 20 $gm/m^2$-day as the maximum SOD allowable regardless of the amound of oxygen demanding materials settled.

Dispersion equation 3 was used to account for composite tidal and advective flows.

### 3.2.4 Temperature Correction of Kinetics, Data Type 4

The temperature values computed are used to correct the rate coefficients in the source/sink terms for the other water quality variables. These coefficients are input at 20 °C and are then corrected to temperature using the following equation:

$$X_T = X_{20} * \text{Theta}^{(T-20)}$$

Where:

$X_T$ = the value of the coefficient at the local temperature T in degrees Celsius
$X_{20}$ = the value of the coefficient at the standard temperature at 20 degrees Celsius
Theta = an empirical constant for each reaction coefficient

In the absence of specified values for data type 4, the model uses default values. A complete listing of these values can be found in the LA-QUAL for Windows User's Manual (LDEQ, 2004). For this model all values used were LAQUAL default values.

### 3.2.4 Reach Identification Data, Data Type 8

A diagram of the modeled area is presented in Appendix C1. The vector diagram shows the reach/element design and the location of St. Louis Canal. The modeled area is characterized by 6 sample sites. The model starts at site BC01 and extends approximately 14.6 km to Lake Boudreaux. This calibrated model includes 5 reaches, 147 elements, one headwater, and 1 tributary. A digitized map of the stream showing river kilometers, and the September 2003 survey sampling sites are included in Figure 2 and Appendix H1.

### 3.2.5 Advective Hydraulic Coefficients, Data Type 9

Louisiana streams typically do not empty out when the flow in the stream goes to zero. Therefore, hydraulic calculation method two was used for this stream to more accurately depict the geometry. The modified Leopold equations were utilized in this model for calibration. The measured widths and depths were based upon survey measurements. These measurements were used as the constants in data type 9. The coefficients and exponents were then acheived through calibration.

### 3.2.6 Dispersive Hydraulic Coefficients, Data Type 10

The tidal/wind dispersion was estimated based on the dye study. The dye study was conducted using the moving site method. There were three dye runs conducted during this study. Based on the data retrieved, the final dye run was determined to be most representative of the stream. This was because the final dye run had the longest run time, just over 24 hours. The longer time frame gave the dye a longer time to become more uniformly dispersed in the bayou. The Kd value was determined to be 0.266 and was conducted in Reach 2.

To take into consideration both advective and tidal transport, equation 3, ($D_L = aH^bQ^cV_M^d$ ) in Laqual was used. Using b=5/6, c=0, and d=1 will take into account both modes of transport in the manner of the Tracor and QUAL2E equations. The value for coefficient “a” was calibrated to in Reach 2 by setting all other parameters to the previously mentioned values. All documentation can be found in Appendix F6.

### 3.2.7 Initial Conditions, Data Type 11

The initial conditions are used to reduce the number of iterations required by the model. The values required for this model were temperature and DO by reach. The input values came from the survey station located closest to the reach. Chlorophyll a values were also used since the mild effects of algae on the dissolved oxygen concentrations were also simulated with this model. Since the initial conditions are only a starting point for the model, all values were set to averaged measured values. The input data and sources are shown in Appendix B2.

### 3.2.8 Reaeration Rates, Data Type 12

The applicability of the various reaeration equations was examined. The Texas Equation was the most applicable to Bayou Chauvin. The input data and sources are shown in Appendix B2.

### 3.2.9 Sediment Oxygen Demand, Data Type 12

The SOD values were achieved through calibration. The SOD value for each reach is shown in Appendix B2. The high SOD value in the first reach is indicative of the impact from the Houma stormwater pumps. The rest of the SOD values fall in a range that would be considered normal for this type of bayou. The conversion ratio of settled CBOD and settled NBOD to SOD was considered to be zero for all reaches due to the resuspension of bottom sediments.

### 3.2.10 Carbonaceous BOD Decay and Settling Rates, Data Type 12

The decay rates used were based on the bottle rates from the survey. The decay rates ranged from 0.054 to 0.094 per day. The CBOD curves presented in Appendix F5 were based on the measured daily CBOD values. The decay and settling rates used for each reach are shown in Appendix F5.

### 3.2.11 Nitrogenous BOD Decay and Settling Rates, Data Type 15

These rates are labeled NBOD Decay and Settling in the model. The decay rates used were based on the bottle rates from the survey. NBOD decay rates ranged from 0.059 to 0.191. The decay and settling rates used for each reach are shown in Appendix F5.

### 3.2.12 Nonpoint Sources, Data Type 19

Nonpoint source loads which are not associated with a flow are input into this part of the model. These can be most easily understood as resuspended load from the bottom sediments and are modeled as SOD, CBOD, and NBOD loads. These values are achieved through calibration.

### 3.2.13 Headwaters, Data Types 20, 21, and 22

The headwater flow was assumed to be an estimated flow based upon stream geometry and the measurement taken at BC09. The data and sources are presented in Appendix B2.

### 3.2.14 Wasteloads, Data Types 23, 24, and 25

No permitted facilities were found to be discharging directly into this subsegment. Additionally, St. Louis Canal was assumed to have a minimal flow during the survey.

### 3.2.15 Boundary Conditions, Data Type 27

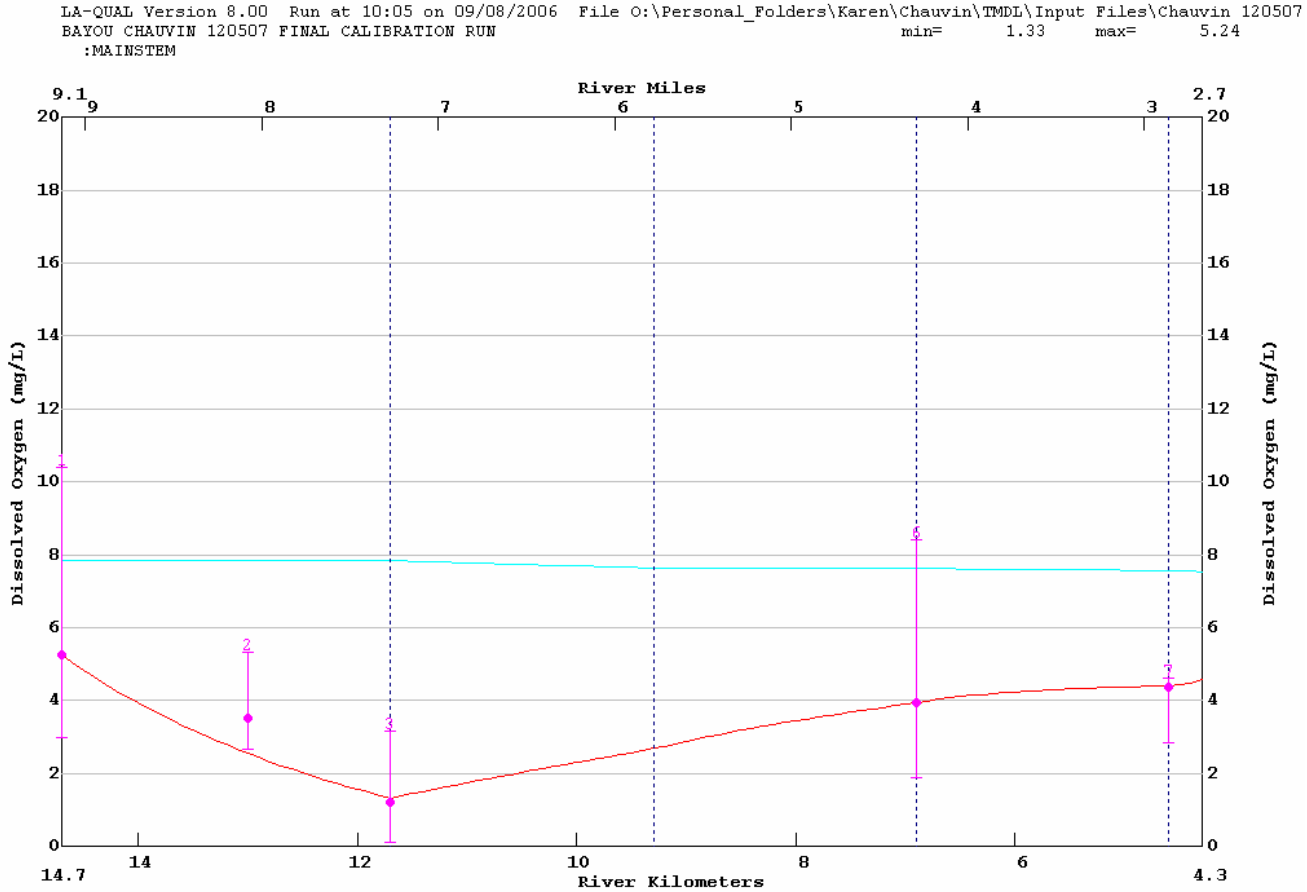
The lower boundary conditions were assumed to be equivalent to the measurements taken at survey station BC09.

## 3.3 Model Discussion and Results

The calibration model input and output is presented in Appendix B. The overlay plotting option was used to determine if calibration had been achieved. A plot of the dissolved oxygen concentration versus river kilometer is presented in Figure 3. The calibration points for dissolved oxygen and temperature were calculated based on the average continuous monitor readings wherever possible. The calibration points for CBOD and NBOD were the measured values from the water quality samples. The calibration points for conductivity were the insitu readings. The calibration points for the chlorides and chlorophyll A were the measured values from the water quality samples. There were no reference streams available, therefore, an overall reduction was calculated. The background conditions could not be determined.

An adequate calibration was achieved for DO, CBOD, and NBOD on the main stem. The calibration model shows that during September 2003 survey period, the DO standard of 4 mg/l was not being met in subsegment 120507 in reaches 1-3. The calibration model minimum DO on the main stem was 1.33 mg/l.

**Figure 3. Calibration Model Dissolved Oxygen versus River Kilometer**




- numbered points indicate survey stations
- vertical lines indicate beginning of reach
- the horizontal line indicates the DO Criterion
- upper plotted line indicates DO saturation
- lower plotted line indicates calibration model output

## 4. Water Quality Projections

The traditional summer critical projection loading scenario was performed at the current annual DO standard. This scenario was based on reduced total nonpoint loads at summer season critical conditions (ie. 90$^{th}$ percentile seasonal temperatures and 7Q10 flows) in accordance with the LTP. A winter projection was run based on the percent reduction of total nonpoint loads used for summer critical projections.

## 4.1 Critical Conditions, Seasonality and Margin of Safety

The Clean Water Act requires the consideration of seasonal variation of conditions affecting the constituent of concern, and the inclusion of a margin of safety (MOS) in the development of a TMDL. For the Bayou Chauvin, subsegment 120507 TMDL, an analysis of LDEQ ambient data has been employed to determine critical seasonal conditions and an appropriate margin of safety.

Critical conditions for dissolved oxygen were determined for Bayou Chauvin using water quality data from Bayou Chauvin water quality site number 345 for reaches 1 – 3 and water quality site 346 for reaches 4 - 5 on the LDEQ Ambient Monitoring Network. The 90$^{th}$ percentile temperature for each season and the corresponding 90% of saturation DO was determined. Ambient temperature data, critical temperature and DO saturation determinations are shown in Appendix G1.

Graphical and regression analysis techniques have been used by LDEQ historically to evaluate the temperature and dissolved oxygen data from the Ambient Monitoring Network and run-off determinations from the Louisiana Office of Climatology water budget. Since nonpoint loading is conveyed by run-off, this was a reasonable correlation to use. Temperature is strongly inversely proportional to dissolved oxygen and moderately inversely proportional to run-off. Dissolved oxygen and run-off are also moderately directly proportional. The analysis concluded that the critical conditions for stream dissolved oxygen concentrations were those of negligible nonpoint run-off and low stream flow combined with high stream temperature.

When the rainfall run-off (and non-point loading) and stream flow are high, turbulence is higher due to the higher flow and the temperature is lowered by the run-off. In addition, run-off coefficients are higher in cooler weather due to reduced evaporation and evapotranspiration, so that the high flow periods of the year tend to be the cooler periods. Reaeration rates and DO saturation are, of course, much higher when water temperatures are cooler, but BOD decay rates are much lower. For these reasons, periods of high loading are periods of higher reaeration and dissolved oxygen but not necessarily periods of high BOD decay.

This phenomenon is interpreted in TMDL modeling by assuming that nonpoint loading associated with flows into the stream are responsible for the benthic blanket which accumulates on the stream bottom and that the accumulated benthic blanket of the stream, expressed as SOD and/or resuspended BOD in the calibration model, has reached steady state or normal conditions over the long term and that short term additions to the blanket are off set by short term losses. This accumulated loading has its greatest impact on the stream during periods of higher temperature and lower flow. The manmade portion of the NPS loading is the difference between the calibration load and the reference stream load where the calibration load is higher. The only mechanism for changing this normal benthic blanket condition is to implement best management practices and reduce the amount of nonpoint source loading entering the stream and feeding the benthic blanket.

Critical season conditions were simulated in the Bayou Chauvin, subsegment 120507 dissolved oxygen TMDL projection modeling by using the flow guidelines from the tidal algorithm procedure, and the 90$^{th}$ percentile temperature. The critical flow at BC09 was calculated using the tidal algorithm and then applied the same flow fractions used in the calibration shown in Appendix E3.

In reality, the highest temperatures occur in July-August, the lowest stream flows occur in October-November, and the maximum point and non point source discharge occurs following a significant rainfall, i.e., high-flow conditions. The summer projection model is established as if all these conditions happened at the same time. The winter projection model accounts for the seasonal differences in flows and BMP efficiencies. Other conservative assumptions regarding rates and loadings are also made during the modeling process. In addition to the conservative measures, an explicit MOS of 20% was used for all loads to account for future growth, safety, model uncertainty and data inadequacies.

## 4.2 Input Data Documentation

The LTP states that the flow for summer conditions should be 0.1 cfs or the 7Q10, whichever is greater. However, it also states that more appropriate critical conditions may be selected. A 7Q10 value cannot be determined for Bayou Chauvin because of tidal influences. The critical tidal flow was calculated at site BC09.

The total surface area of 8,145,920 square feet was multiplied by the tidal range of 0.6 feet. The tidal range was calculated from the continuous monitoring vented depth readings. This product was divided by the tidal period of 12 hours to determine the average tidal flow. The average tidal flow was calculated to be 113.14 cfs or 3.4604 cms. Therefore, the critical tidal flow was calculated to be one-third of the average tidal flow, which is 37.71 cfs or 1.0678 cms. The headwater flow and incremental inflows were then determined based on estimated flows from stream geometry. This is documented in Appendix F2.

Critical conditions include dissolved oxygen, temperature and flow. Pollutant loading is adjusted in the projection models to meet the dissolved oxygen criteria.

The calibration values were retained for the remaining parameters and used as input values in the summer and winter projections. The model adjusts the input values for SOD, CBODU decay, and NBODU decay based upon the input temperature. The model projects the width and depth values based upon the streamflow.

### 4.2.1 Model Options, Data Type 2

Three constituents were modeled during the projection process. These were dissolved oxygen, carbonaceous biochemical oxygen demand, and nitrogenous biochemical oxygen demand.

### 4.2.2 Temperature Correction of Kinetics, Data Type 4

The temperature correction factors specified in the LTP are entered in the model.

### 4.2.3 Reach Identification Data, Data Type 8

The reach-element design from the calibration was used in the projection modeling.

### 4.2.4 Advective Hydraulic Coefficients, Data Type 9

The hydraulic coefficients, exponents, and constants determined for the calibration were used in the projection model.

### 4.2.5 Initial Conditions, Data Type 11

The initial conditions were set to the 90$^{th}$ percentile critical season temperature in accordance with the LTP. The dissolved oxygen values for the initial conditions were set at the stream criteria.

### 4.2.6 Reaeration Rates, Carbonaceous BOD Decay and Settling Rates, Nitrogenous BOD Decay and Settling Rates, Data Type 12 and 15

The reaeration rate equations, CBOD decay and settling rates, NBOD decay and settling rates, and the fractions converting settled CBOD and settled NBOD to SOD were not changed from the calibration.

### 4.2.8 Sediment Oxygen Demand, Nonpoint Sources, Headwaters, Wasteloads, Data Type 12, 19, 20, 21, 22, 24, 25, and 26

The NPS values were calculated for each projection scenario using a load equivalent spreadsheet. An analysis was made of the calibration NPS and SOD loads in terms of total loading in units of gm-$O_2$/m$^2$/day. The same spreadsheet also calculated load reductions for the headwaters and wasteloads. The values and sources of the input data and the load analyses are presented in Appendix D for each of the projection runs.

LDEQ has collected and measured the CBOD and NBOD oxygen demand loading components for a number of years. These loads have been found in all streams including the non-impacted reference streams. It is LDEQ's opinion that much of this loading is attributable to run-off loads which are flushed into the stream during run-off events, and subsequently settle to the bottom in our slow moving streams. These benthic loads decay and breakdown during the year, becoming easily resuspended into the water column during the low flow/high temperature season. This season has historically been identified as the critical dissolved oxygen season.

LDEQ simulates part of the non-point source oxygen demand loading as resuspended benthic load and SOD. The calibrated non-point loads, UCBOD, UNBOD and SOD, are summed to produce the total calibrated benthic load. The total calibrated benthic load is then reduced by the total background benthic load (determined from LDEQ's reference stream research) to determine the total manmade benthic loading. The manmade portion is then reduced incrementally on a percentage basis to determine the necessary percentage reduction of manmade loading required to meet the water body's dissolved oxygen criteria. These reductions are applied uniformly to all reaches sharing similar hydrology and land uses.

Following the same protocol as the point source discharges, the total reduced manmade benthic load is adjusted for the margin of safety by dividing the value by one minus the margin of safety. This adjusted load is added back to the total background benthic value to obtain the total projection model benthic load. This total projection benthic load is then broken out into its components of SOD,

resuspended CBOD and resuspended NBOD by multiplying the total projection benthic load by the ratio of each calibrated component to the total calibrated benthic load.

LDEQ has found variations in the breakdown of the individual CBOD and NBOD components. While the total BOD is reliable, the carbonaceous and nitrogenous component allocation is subject to the type of test method. In the past, LDEQ used a method which suppressed the nitrogenous component to obtain the carbonaceous component value, which was then subtracted from the total measured BOD to determine the nitrogenous value. The suppressant in this method was only reliable for twenty days thus leading to the assumption that the majority of the carbonaceous loading was depleted within that period of time. The test results supported this assumption. Recently the suppressant started failing around day seven and the manufacturer of the suppressant will only guarantee it's potency for a five day period. LDEQ felt a five day test would not adequately depict the water quality of streams and began a search for a new test method. The research found a new proposed method for testing long term BODs in Standard Methods.

This proposed method is a sixty day test which measures the incremental total BOD of the sample while at the same time measuring the increase in nitrite/nitrate in the sample. This increase in nitrite/nitrate allows LDEQ to calculate the incremental nitrogenous portion by multiplying the increase by 4.57 to determine the NBOD daily readings. These NBOD daily readings are then subtracted from the daily reading for total BOD to determine the CBOD daily values. A curve fit algorithm is then applied to the daily component readings to obtain the estimated ultimate values of each component as well as the decay rate and lag times of the first order equations.

LDEQ implemented the new test method during the 2000 survey season. The results obtained using the new method showed that a portion of the CBOD first order equation does begin to level off prior to the twentieth day, however a secondary CBOD component begins to use dissolved oxygen sometime between day ten and day twenty-five. This secondary CBOD component was not being assessed as CBOD using the previous method but was being included in the NBOD load. Thus the CBOD and NBOD component loading used in the reference stream studies is not consistent with the results using the new proposed 60 day method and the individual values should not be used to determine background values for samples processed using the new test methods. However, the sum of CBOD and NBOD should be about the same for both new and old test methods. For this reason LDEQ decided to use the sum of reference stream benthic loads as background values. Again, background values can not be quantified for Bayou Chauvin.

The resuspended total nonpoint CBOD and NBOD loading was reduced by 43% for all reaches in the summer critical projection scenario to meet the summer water quality criterion for dissolved oxygen. Since LDEQ assumes these benthic loads are long-term loads brought to the stream by various sources throughout the year, the same percentage reductions were made in the winter projection model as were in the summer critical projection model. These reductions met the summer dissolved oxygen criteria and well surpassed requirements in the non-critical winter projection.

The reductions were determined using the calibrated values for nonpoint CBOD and NBOD. These values were summed by reach, as justified above and adjusted for the margin of safety. Each reach's total benthic nonpoint load was then reduced to meet the dissolved oxygen criteria in each reach. Using the ratios determined in calibration, this reduced total nonpoint load was then broken into its

components of CBOD, NBOD, and SOD. The percentage reduction within the mainstem was calculated based on the comparison of the reduced total nonpoint benthic load to the calibration total nonpoint benthic load. These calculations are shown in Appendix E. The value and sources of CBOD and NBOD for each projection run are presented in Appendix F5.

#### 4.2.12 Boundary Conditions, Data Type 27

The lower boundary conditions were set at the 90$^{th}$ percentile critical season temperature, the dissolved oxygen criteria, and the measured stream UCBOD and UNBOD loads for all projections and scenarios.

### 4.3 Model Discussion and Results

The projection model input and output data sets are presented in Appendix D.

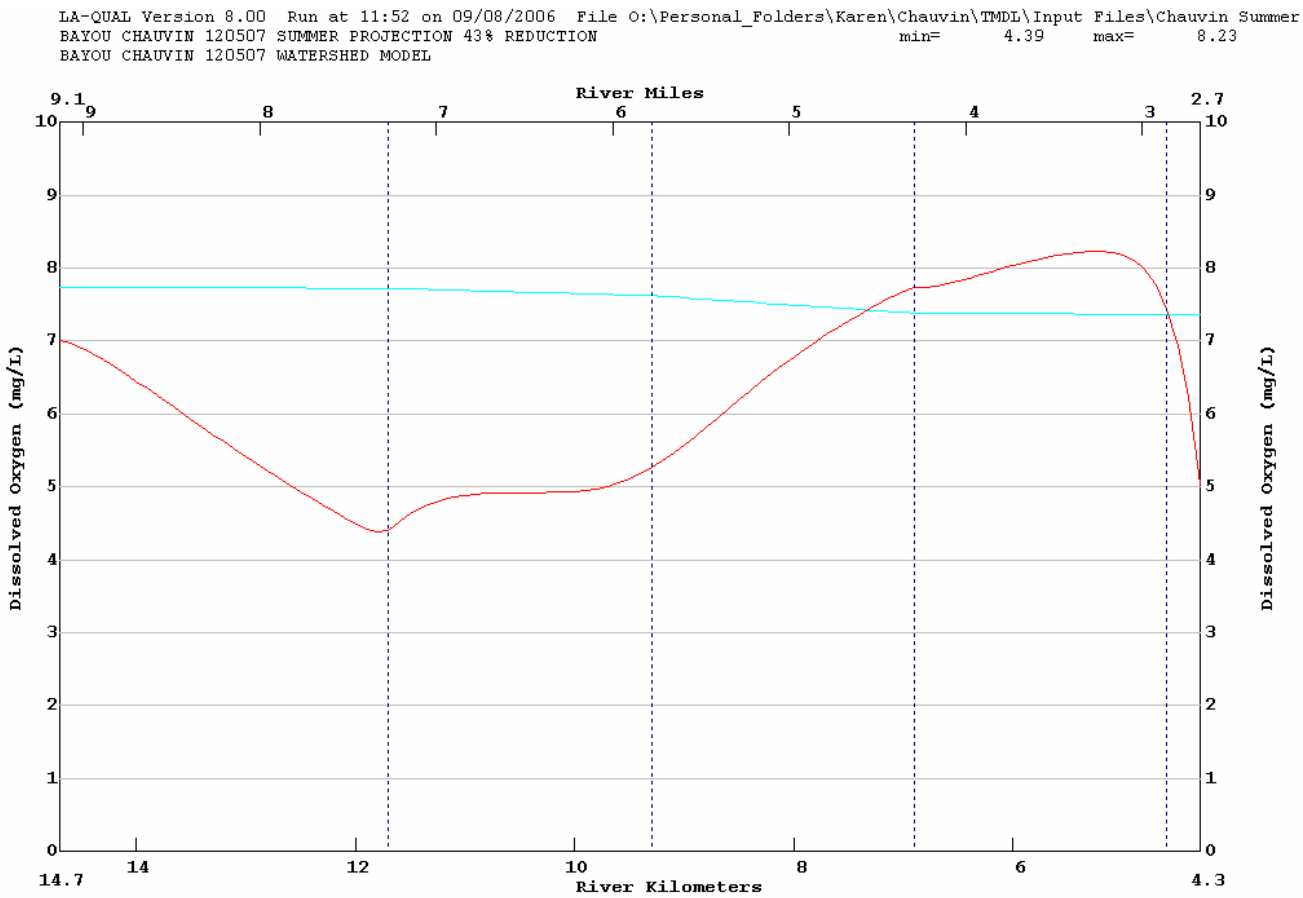
#### 4.3.1 No-Load Projection

A no-load projection was not run because background loading could not be calculated. There were no reference stream studies available for this area.

#### 4.3.2 Summer Projection

Summer critical season projections were run for the current standard of 4.0 mg/L May – November. In order to meet the standard, a 43% reduction of total nonpoint sources is necessary. With these percentage reductions in the benthic oxygen loads, Bayou Chauvin meets the dissolved oxygen criterion. The minimum DO on the main stem is 4.39 mg/L. A graph of the dissolved oxygen concentration versus river kilometer for the summer projection is presented in Figure 4.

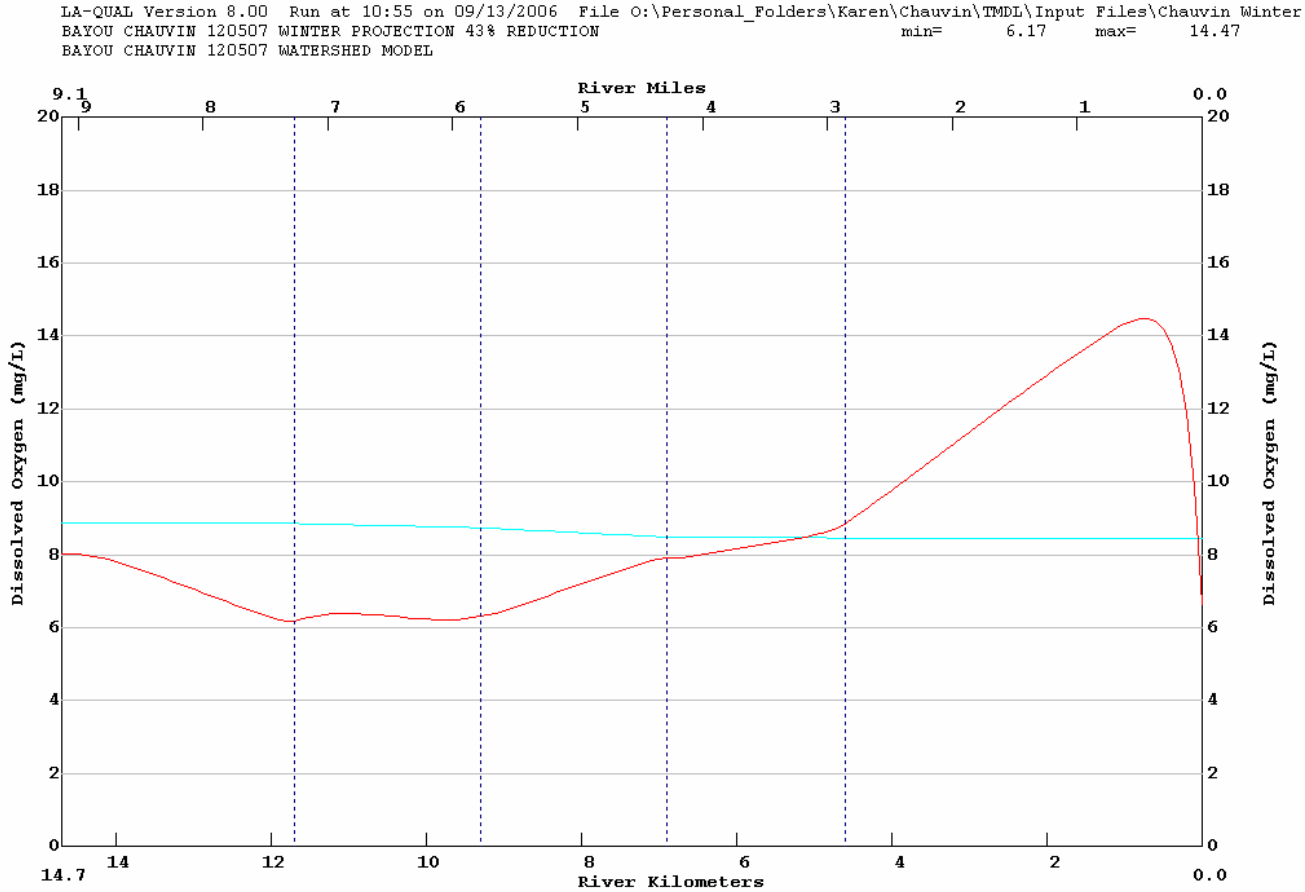
**Figure 4. Summer Projection at 43% Removal of Man-Made NPS Loads**




### 4.3.3 Winter Projection

The results of the model show that the water quality criterion for dissolved oxygen of Bayou Chauvin of 4.0 mg/l can be maintained during the winter critical season. The minimum dissolved oxygen is 6.17 mg/l. To achieve the criterion, the model assumed a 43% reduction from all manmade nonpoint sources. A graph of the dissolved oxygen concentration versus river kilometer for the winter projection is presented in Figure 5.

**Figure 5. Winter Projection at 43% Removal of Man-Made NPS Loads**




## 4.4 Calculated TMDL, WLAs and Las

### 4.4.1 Outline of TMDL Calculations

An outline of the TMDL calculations is provided to assist in understanding the calculations in the Appendices. Slight variances may occur based on individual cases.

4.4.1.1 The natural backgrounds benthic loading was estimated from reference stream resuspension (nonpoint CBOD and NBOD), and SOD load data.

4.4.1.2 The calibration man-made benthic loading was determined as follows:

- Calibration resuspension and SOD loads were summed for each reach as gm $O_2/m^2$-day to get the calibration benthic loading.
- The natural background benthic loading was subtracted from the calibration benthic loading to obtain the man-made calibration benthic loading.

4.4.1.3 Projection benthic loads are determined by trail and error during the modeling process using a uniform percent reduction for resuspension and SOD. Point sources are reduced as necessary to subsequently more stringent levels of treatment consistent with the size of the treatment facility as much as possible. Point source design flows are increased to obtain an explicit MOS of 20%. Headwater and tributary concentrations of CBOD, NBOD, and DO range from reference stream levels to calibration levels based on the character of the headwater. Where headwaters and tributaries exhibit man-made pollutant loads in excess of reference stream values, the loadings are reduced by the same uniform percent reduction as the benthic loads.

- The projection benthic loading at 20 °C is calculated as the sum of the projection resuspension and SOD components expressed as gm $O_2/m^2$-day.

- The natural background benthic load is subtracted from the projection benthic load to obtain the man-made projection benthic load for each reach.

- The percent reduction of man-made loads for each reach is determined from the difference between the projected man-made non-point load and the man-made non-point load found during calibration.

- The projection loads are also computed in units of lb/d and kg/d for each kind.

4.4.1.4 The total stream loading capacity at critical water temperature is calculated as the sum of:

- Headwater and tributary CBOD and NBOD loading in lb/d and kg/d.

- The natural and man-made projection benthic loading for all reaches of the stream is converted to the loading at critical temperature and summed in lb/d and kg/d.

- Point source CBOD and NBOD loading in lb/d and kg/d.

- The margin of safety in lb/d and kg/d.

### 4.4.2 Bayou Chauvin, Subsegment 120507 TMDL

The TMDL for the biochemical oxygen demanding constituents (CBOD, NBOD, and SOD), have been calculated for the summer and winter critical seasons. The Summer TMDL for the Bayou Chauvin, Subsegment 120507 watershed was set equal to the total stream loading capacity. They are presented in Appendix A by reach. A summary of the loads is presented in Table 4.

**Table 4. Total Maximum Daily Load (Sum of UCBOD[1], UNBOD, and SOD)**

| ALLOCATION | SUMMER | | WINTER | |
|---|---|---|---|---|
| | % Reduction Required | (MAR-NOV) (lbs/day) | % Reduction Required | (DEC-FEB) (lbs/day) |
| Point Source WLA | 0 | 0 | 0 | 0 |
| Point Source Reserve MOS (20%) | 0 | 0 | 0 | 0 |
| Manmade Nonpoint Source LA | 43 | 21,106 | 43 | 18,282 |
| Manmade Nonpoint Source Reserve MOS(20%) | 0 | 5,277 | 0 | 4,571 |
| TMDL | | 26,383 | | 22,853 |

***Note1: UCBOD as stated in this allocation is Ultimate CBOD.
UCBOD to $CBOD_5$ ratio = 2.3 for all treatment levels
Permit allocations are generally based on $CBOD_5$***

## 5. Sensitivity Analysis

All modeling studies necessarily involve uncertainty and some degree of approximation. It is therefore of value to consider the sensitivity of the model output to changes in model coefficients, and in the hypothesized relationships among the parameters of the model. The LAQUAL model allows multiple parameters to be varied with a single run. The model adjusts each parameter up or down by the percentage given in the input set. The rest of the parameters listed in the sensitivity section are held at their original projection value. Thus the sensitivity of each parameter is reviewed separately. A sensitivity analysis was performed on the calibration. The sensitivity of the model's minimum DO projections to these parameters is presented in Appendix I2. Parameters were varied by +/- 30%, except temperature, which was adjusted +/- 2 degrees Centigrade.

Values reported in Appendix I2 are percentage variation of minimum DO in the main stem Bayou Chauvin. As shown in Table 5, stream flow, stream velocity, initial temperature, benthal demand, headwater flow, and headwater DO are the parameters to which DO is most sensitive. The model is moderately sensitive to initial chlorophyll a and stream reaeration. The model is slightly sensitive to insensitive to the remaining parameters.

**Table 5. Summary of Calibration Model Sensitivity Analysis**

SENSITIVITY ANALYSIS SUMMARY

| Parameter | %Param Chg | Min D.O. | %D.O. Chg | %Param Chg | Min D.O. | %D.O. Chg |
|---|---|---|---|---|---|---|
| Stream Baseflow | 30. | 2.07 | 52.4 | -30. | 0.16 | -88.1 |
| Initial Chorophyll a | 30. | 1.52 | 12.2 | -30. | 1.19 | -12.2 |
| Stream Velocity | 30. | 2.06 | 51.9 | -30. | 0.17 | -87.4 |
| Initial Temperature | 2. | 0.84 | -38.3 | -2. | 1.83 | 34.9 |
| CBOD Aerobic Decay Rate | 30. | 1.31 | -3.8 | -30. | 1.41 | 3.8 |
| CBOD Settling Rate | 30. | 1.36 | 0.2 | -30. | 1.35 | -0.2 |
| NBOD Decay Rate | 30. | 1.34 | -1.2 | -30. | 1.37 | 1.2 |
| NBOD Settling Rate | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |
| Benthal Demand | 30. | 0.79 | -42.0 | -30. | 2.59 | 90.9 |
| Stream Dispersion | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |
| Stream Reaeration | 30. | 1.64 | 20.8 | -30. | 1.06 | -22.2 |
| Headwater Flow | 30. | 1.95 | 44.1 | -30. | 0.53 | -60.9 |
| Headwater DO | 30. | 2.14 | 57.5 | -30. | 0.61 | -54.8 |
| Headwater CBOD | 30. | 1.32 | -2.6 | -30. | 1.39 | 2.6 |
| Headwater NBOD | 30. | 1.34 | -0.9 | -30. | 1.37 | 1.0 |
| Stream Depth | 30. | 1.42 | 5.1 | -30. | 1.31 | -3.7 |
| Wasteload Flow | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |
| Wasteload Temperature | 2. | 1.36 | 0.0 | -2. | 1.36 | 0.0 |
| Wasteload DO | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |
| Wasteload CBOD | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |
| Wasteload NBOD | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |
| Lower Boundary Temperature | 2. | 1.36 | 0.0 | -2. | 1.36 | 0.0 |
| Lower Boundary DO | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |
| Lower Boundary CBOD | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |
| Lower Boundary NBOD | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |

## 6. Conclusions

This TMDL establishes load limitations for oxygen-demanding substances and goals for reduction of those pollutants. LDEQ's position, as supported by the declaratory ruling issued by Secretary Givens in response to the lawsuit regarding water quality criteria for nutrients (Sierra Club v. Givens, 710 So.2d 249 (La. App. 1st Cir. 1997), writ denied, 705 So.2d 1106 (La. 1998), is that when oxygen-demanding substances are controlled and limited in order to ensure that the dissolved oxygen criterion is supported, nutrients are also controlled and limited. The implementation of this TMDL through best management practices to control and reduce runoff of soil and oxygen-demanding pollutants from nonpoint sources in the watershed will also control and reduce the nutrient loading from those sources.

A calibrated water quality model for the watershed was developed and projections were modeled to quantify the non-point source load reductions which would be necessary in order for Bayou Chauvin, subsegment 120507 to comply with its established water quality standards and criteria. This report presents the results of that analysis.

The modeling, which has been conducted for this TMDL, is conservative and based on limited information. The TMDL requires a watershed-wide 43% decrease in total nonpoint source loads in order to meet the DO criterion of 4.0 mg/L in the summer critical season.

Bayou Chauvin conveys intermittent flow from the Houma stormwater pumps located at a dam across the bayou about 13.6 kilometers from Lake Boudreaux. It is believed that stormwater conveyed by the bayou is primarily responsible for violations of dissolved oxygen criteria. The DO becomes lower towards the bottom at the confluence with Lake Boudreaux due to settling combined with tidal influence. The high chlorides and conductivity values are characteristic of tidal waterbodies. The high chlorophyll a is indicative of the algae blooms present in open waters. Houma is considering moving the stormwater pumps to Bayou Terrebonne which would likely enhance the water quality of Bayou Chauvin. As stated above, no permitted dischargers are located in this subsegment. There is significant oil and gas activity, but these facilities are no longer allowed to discharge into waters of the state. Additionally, the Houma South Wastewater Treatment Plant, though located in this subsegment, discharges to the Houma Navigation Canal and does not impact Bayou Chauvin.

LDEQ has developed this TMDL to be consistent with the state antidegradation policy (LAC 33:IX.1109.A).

LDEQ will work with other agencies such as local Soil Conservation Districts to implement agricultural best management practices in the watershed through the 319 programs. LDEQ will also continue to monitor the waters to determine whether standards are being attained.

In accordance with Section 106 of the federal Clean Water Act and under the authority of the Louisiana Environmental Quality Act, the LDEQ has established a comprehensive program for monitoring the quality of the state's surface waters. The LDEQ Surveillance Section collects surface water samples at various locations, utilizing appropriate sampling methods and procedures for ensuring the quality of the data collected. The objectives of the surface water monitoring program are to determine the quality of the state's surface waters, to develop a long-term database for water quality trend analysis, and to monitor the effectiveness of pollution controls. The data obtained through the surface water monitoring program is used to develop the state's biennial 305(b) report (*Water Quality Inventory*) and the 303(d) list of impaired waters. This information is also utilized in establishing priorities for the LDEQ nonpoint source program.

The LDEQ is continuing to implement a watershed approach to surface water quality monitoring. In 2004 a four year sampling cycle replaces the previous five year cycle. Approximately one quarter of the states watersheds will be sampled each year so that all of the state's watersheds will be sampled within the four year cycle. This will allow LDEQ to determine whether there has been any improvement in water quality following implementation of the TMDLs. As the monitoring results are evaluated at the end of each year, waterbodies may be added to or removed from the 303(d) list.

## 7. References

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## 8. Appendices

# Appendix A – Detailed TMDL Analysis

# Appendix A1 – Summer TMDL Summary

Bayou Chauvin Watershed TMDL

Subsegment 120507

Originated: September 29, 2006

Revised: May 11, 2007

**Summer TMDL Summary:**

**BAYOU CHAUVIN (SUBSEGMENT 120507)**

**Calculation of the TMDL - Kilograms per day**

| Load description | WLA (kg $O_2$/day) | CBOD1 LA (kg $O_2$/day) | CBOD2 LA (kg $O_2$/day) | Organic-N LA (kg/day) | Ammonia-N LA (kg/day) | NBOD LA (kg $O_2$/day) | SOD LA (kg $O_2$/day) | LA (kg $O_2$/day) | MOS Load (kg $O_2$/day) |
|---|---|---|---|---|---|---|---|---|---|
| Point Source loads | 0 | | | | | | | | 0 |
| Headwater / Tributatary loads | | 70 | 0 | 0 | 0 | 21 | | 91 | 23 |
| Benthic loads | | 4,788 | 0 | 0 | 0 | 507 | 3,361 | 8,656 | 2,164 |
| Incremental Loads | | 670 | 0 | 0 | 0 | 155 | | 825 | 206 |
| **SUB-TOTAL** | **0** | **5,528** | **0** | **0** | **0** | **683** | **3,361** | **9,572** | **2,393** |
| | | | | | | | | | |
| ***TMDL = WLA + LA + MOS*** | | | | | | | | ***11,965 kg/day*** | |

**Notes:**

(1) - Load(lbs/day) = Load(kg/day) x 2.205

**Calculation of the TMDL - Pounds per day**

| Load description | WLA (lbs $O_2$/day) | CBOD1 LA (lbs $O_2$/day) | CBOD2 LA (lbs $O_2$/day) | Organic-N LA (lbs/day) | Ammonia-N LA (lbs/day) | NBOD LA (lbs $O_2$/day) | SOD LA (lbs $O_2$/day) | LA (lbs $O_2$/day) | MOS Load (lbs $O_2$/day) |
|---|---|---|---|---|---|---|---|---|---|
| Point Source loads | 0 | | | | | | | | 0 |
| Headwater / Tributatary loads | | 154 | 0 | 0 | 0 | 46 | | 201 | 51 |
| Benthic loads | | 10,558 | 0 | 0 | 0 | 1,118 | 7,411 | 19,086 | 4,772 |
| Incremental Loads | | 1,477 | 0 | 0 | 0 | 342 | | 1,819 | 454 |
| **SUB-TOTAL** | **0** | **12,189** | **0** | **0** | **0** | **1,506** | **7,411** | **21,106** | **5,277** |
| | | | | | | | | | |
| ***TMDL = WLA + LA + MOS*** | | | | | | | | ***26,383 lbs/day*** | |

**Notes:**

(1) - Load(lbs/day) = Load(kg/day) x 2.205

**Calculation of the TMDL - Kilograms per day**

| Load description | WLA (kg $O_2$/day) | CBOD1 LA (kg $O_2$/day) | CBOD2 LA (kg $O_2$/day) | Organic-N LA (kg/day) | Ammonia-N LA (kg/day) | NBOD LA (kg $O_2$/day) | SOD LA (kg $O_2$/day) | LA (kg $O_2$/day) | MOS Load (kg $O_2$/day) |
|---|---|---|---|---|---|---|---|---|---|
| Point Source loads | 0 | | | | | | | | 0 |
| Natural Nonpoint Loads | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Manmade Nonpoint Loads | | 5,528 | 0 | 0 | 0 | 683 | 3,361 | 9,572 | 2,393 |
| | | | | | | | | | |
| **SUB-TOTAL** | **0** | **5,528** | **0** | **0** | **0** | **683** | **3,361** | **9,572** | **2,393** |
| | | | | | | | | | |
| ***TMDL = WLA + LA + MOS*** | | | | | | | | ***11,965 kg/day*** | |

**Calculation of the TMDL - Pounds per day**

| Load description | WLA (lbs $O_2$/day) | CBOD1 LA (lbs $O_2$/day) | CBOD2 LA (lbs $O_2$/day) | Organic-N LA (lbs/day) | Ammonia-N LA (lbs/day) | NBOD LA (lbs $O_2$/day) | SOD LA (lbs $O_2$/day) | LA (lbs $O_2$/day) | MOS Load (lbs $O_2$/day) |
|---|---|---|---|---|---|---|---|---|---|
| Point Source loads | 0 | | | | | | | | 0 |
| Natural Nonpoint Loads | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Manmade Nonpoint Loads | | 12,189 | 0 | 0 | 0 | 1,506 | 7,411 | 21,106 | 5,277 |
| | | | | | | | | | |
| **SUB-TOTAL** | **0** | **12,189** | **0** | **0** | **0** | **1,506** | **7,411** | **21,106** | **5,277** |
| | | | | | | | | | |
| ***TMDL = WLA + LA + MOS*** | | | | | | | | ***26,383 lbs/day*** | |

# Appendix A2 – Winter TMDL Summary

## Winter TMDL Summary:

**BAYOU CHAUVIN (SUBSEGMENT 120507)**

**Calculation of the TMDL - Kilograms per day**

| Load description | WLA (kg $O_2$/day) | CBOD1 LA (kg $O_2$/day) | CBOD2 LA (kg $O_2$/day) | Organic-N LA (kg/day) | Ammonia-N LA (kg/day) | NBOD LA (kg $O_2$/day) | SOD LA (kg $O_2$/day) | LA (kg $O_2$/day) | MOS Load (kg $O_2$/day) |
|---|---|---|---|---|---|---|---|---|---|
| Point Source loads | 0 | | | | | | | | 0 |
| Headwater / Tributatary loads | | 70 | 0 | 0 | 0 | 21 | | 91 | 23 |
| Benthic loads | | 4,788 | 0 | 0 | 0 | 507 | 2,080 | 7,375 | 1,844 |
| Incremental Loads | | 670 | 0 | 0 | 0 | 155 | | 825 | 206 |
| **SUB-TOTAL** | **0** | **5,528** | **0** | **0** | **0** | **683** | **2,080** | **8,291** | **2,073** |
| | | | | | | | | | |
| ***TMDL = WLA + LA + MOS*** | | | | | | | | ***10,364 kg/day*** | |

**Notes:**
(1) - Load(lbs/day) = Load(kg/day) x 2.205

**Calculation of the TMDL - Pounds per day**

| Load description | WLA (lbs $O_2$/day) | CBOD1 LA (lbs $O_2$/day) | CBOD2 LA (lbs $O_2$/day) | Organic-N LA (lbs/day) | Ammonia-N LA (lbs/day) | NBOD LA (lbs $O_2$/day) | SOD LA (lbs $O_2$/day) | LA (lbs $O_2$/day) | MOS Load (lbs $O_2$/day) |
|---|---|---|---|---|---|---|---|---|---|
| Point Source loads | 0 | | | | | | | | 0 |
| Headwater / Tributatary loads | | 154 | 0 | 0 | 0 | 46 | | 201 | 51 |
| Benthic loads | | 10,558 | 0 | 0 | 0 | 1,118 | 4,586 | 16,262 | 4,066 |
| Incremental Loads | | 1,477 | 0 | 0 | 0 | 342 | | 1,819 | 454 |
| **SUB-TOTAL** | **0** | **12,189** | **0** | **0** | **0** | **1,506** | **4,586** | **18,282** | **4,571** |
| | | | | | | | | | |
| ***TMDL = WLA + LA + MOS*** | | | | | | | | ***22,853 lbs/day*** | |

**Notes:**
(1) - Load(lbs/day) = Load(kg/day) x 2.205

**Calculation of the TMDL - Kilograms per day**

| Load description | WLA (kg $O_2$/day) | CBOD1 LA (kg $O_2$/day) | CBOD2 LA (kg $O_2$/day) | Organic-N LA (kg/day) | Ammonia-N LA (kg/day) | NBOD LA (kg $O_2$/day) | SOD LA (kg $O_2$/day) | LA (kg $O_2$/day) | MOS Load (kg $O_2$/day) |
|---|---|---|---|---|---|---|---|---|---|
| Point Source loads | 0 | | | | | | | | 0 |
| Natural Nonpoint Loads | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Manmade Nonpoint Loads | | 5,528 | 0 | 0 | 0 | 683 | 2,080 | 8,291 | 2,073 |
| | | | | | | | | | |
| **SUB-TOTAL** | **0** | **5,528** | **0** | **0** | **0** | **683** | **2,080** | **8,291** | **2,073** |
| | | | | | | | | | |
| ***TMDL = WLA + LA + MOS*** | | | | | | | | ***10,364 kg/day*** | |

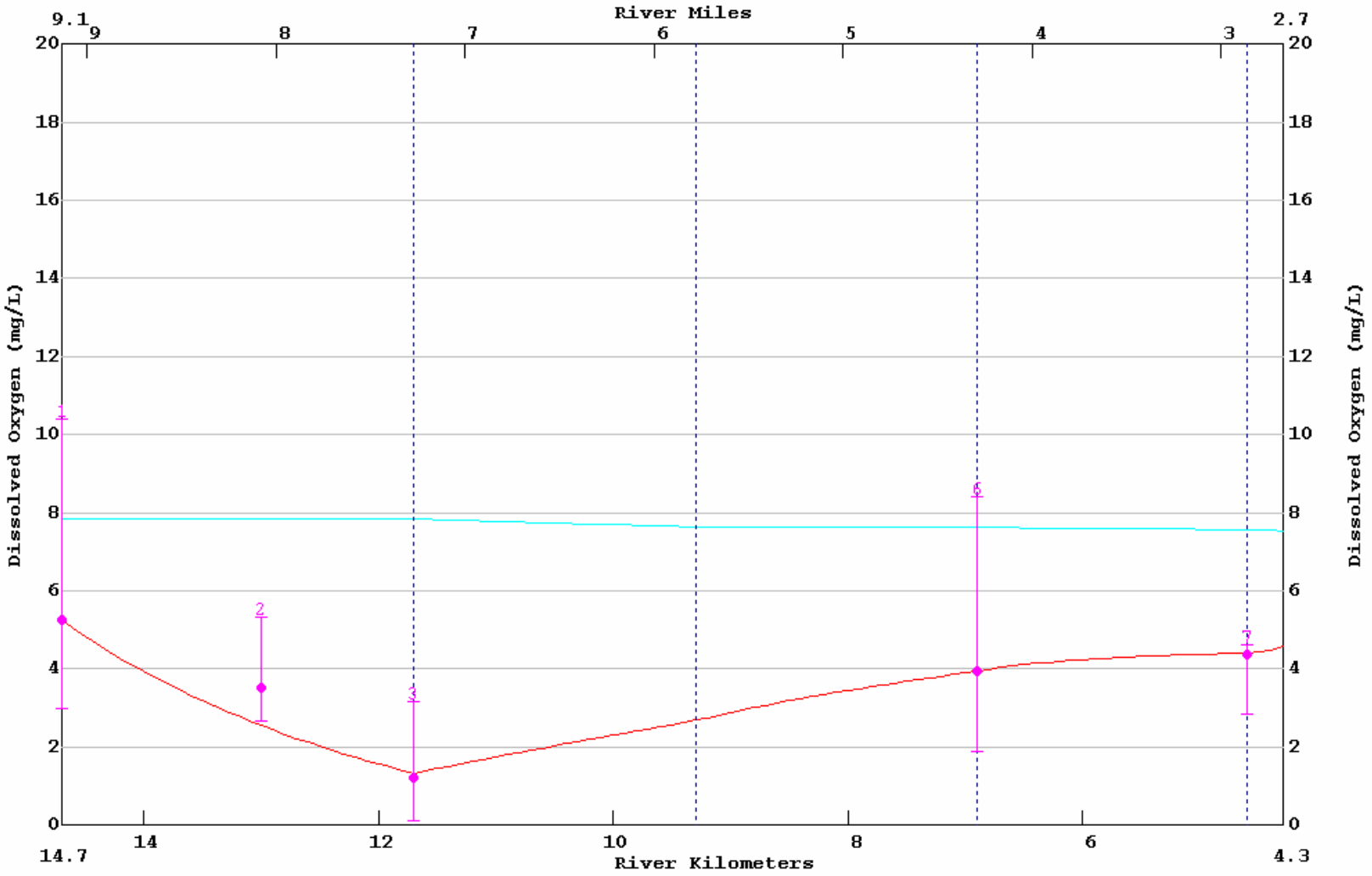
**Calculation of the TMDL - Pounds per day**

| Load description | WLA (lbs $O_2$/day) | CBOD1 LA (lbs $O_2$/day) | CBOD2 LA (lbs $O_2$/day) | Organic-N LA (lbs/day) | Ammonia-N LA (lbs/day) | NBOD LA (lbs $O_2$/day) | SOD LA (lbs $O_2$/day) | LA (lbs $O_2$/day) | MOS Load (lbs $O_2$/day) |
|---|---|---|---|---|---|---|---|---|---|
| Point Source loads | 0 | | | | | | | | 0 |
| Natural Nonpoint Loads | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Manmade Nonpoint Loads | | 12,189 | 0 | 0 | 0 | 1,506 | 4,586 | 18,282 | 4,571 |
| | | | | | | | | | |
| **SUB-TOTAL** | **0** | **12,189** | **0** | **0** | **0** | **1,506** | **4,586** | **18,282** | **4,571** |
| | | | | | | | | | |
| ***TMDL = WLA + LA + MOS*** | | | | | | | | ***22,853 lbs/day*** | |

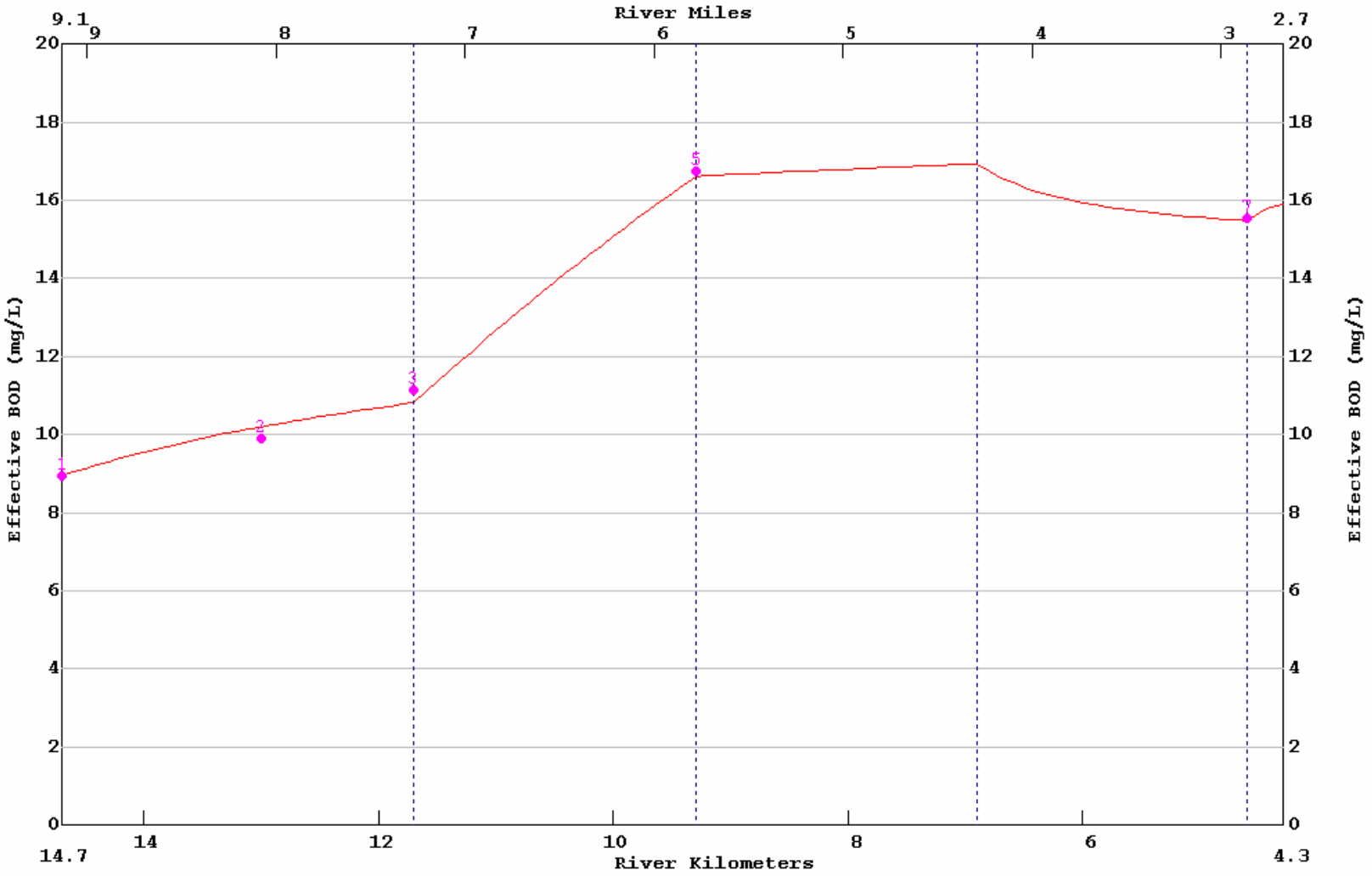
# Appendix B – Calibration Model Input and Output Data Sets

# Appendix B1 – Calibration Output Graphs and Input, Overlay, and Output Files

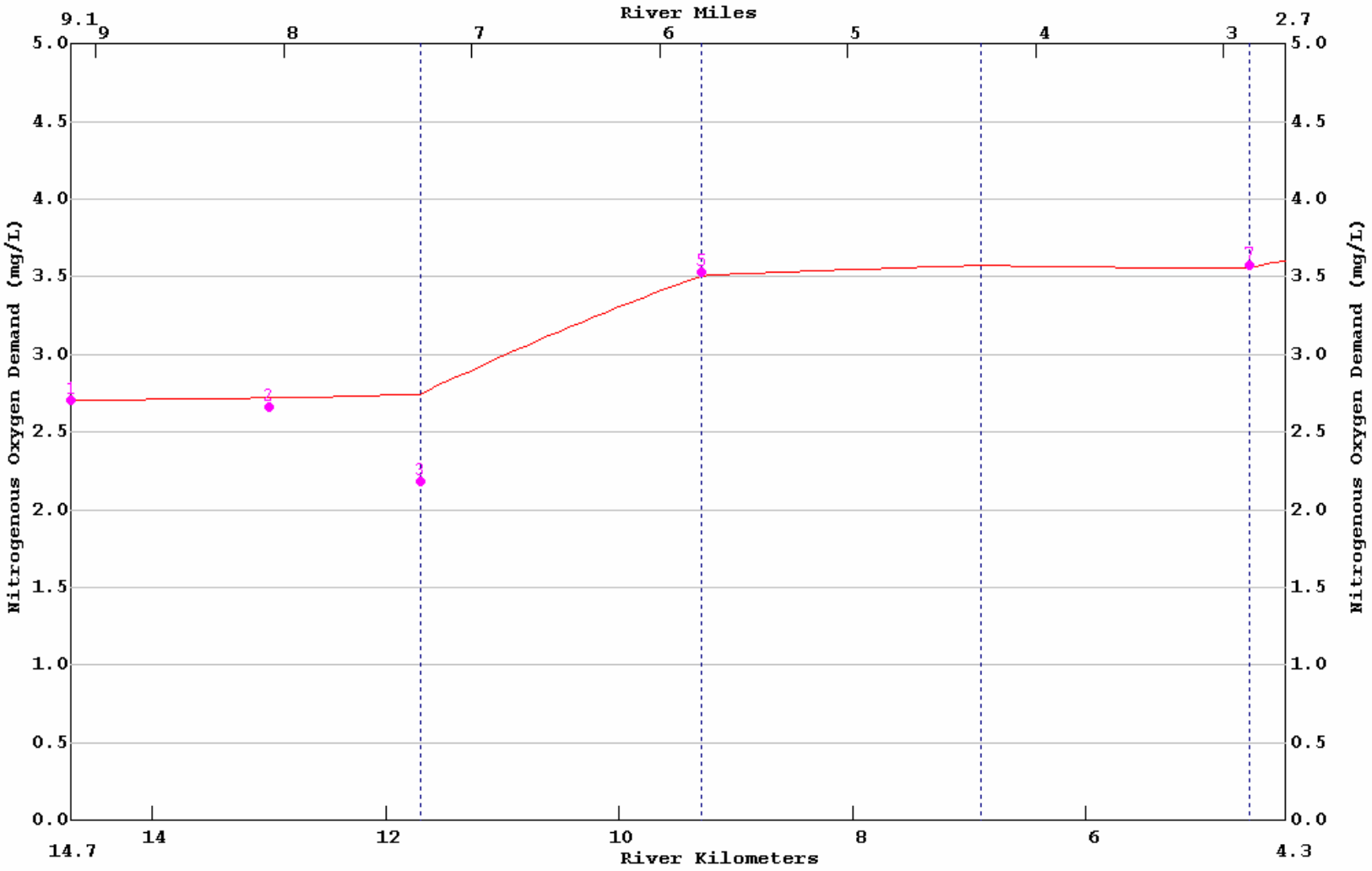
LA-QUAL Version 8.00 Run at 09:59 on 09/11/2006 File O:\Personal_Folders\Karen\Chauvin\TMDL\Input Files\Chauvin 120507
BAYOU CHAUVIN 120507 FINAL CALIBRATION RUN min= 1.33 max= 5.24
:MAINSTEM



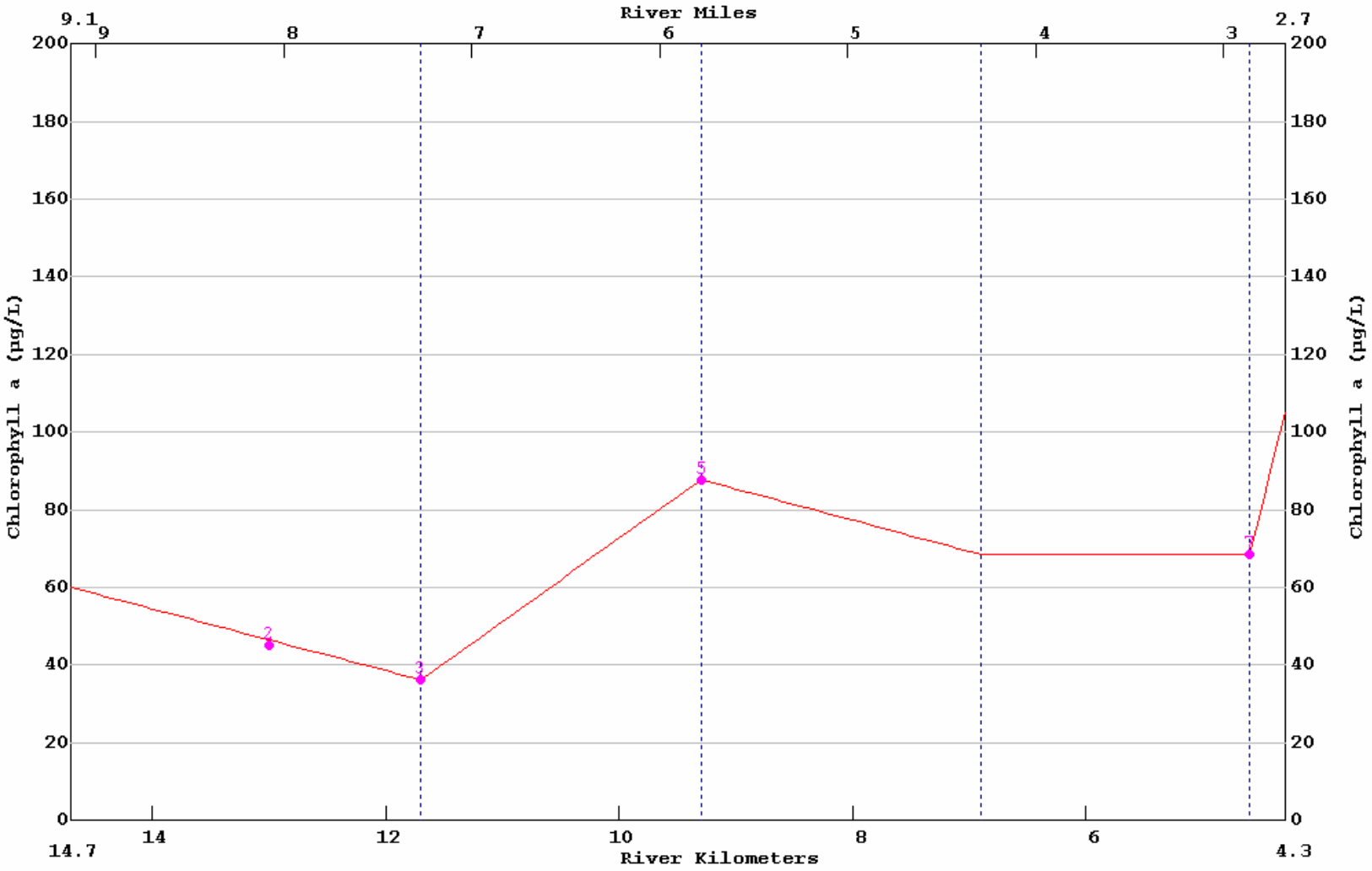
LA-QUAL Version 8.00 Run at 09:59 on 09/11/2006 File O:\Personal_Folders\Karen\Chauvin\TMDL\Input Files\Chauvin 120507
BAYOU CHAUVIN 120507 FINAL CALIBRATION RUN min= 8.95 max= 16.93
:MAINSTEM



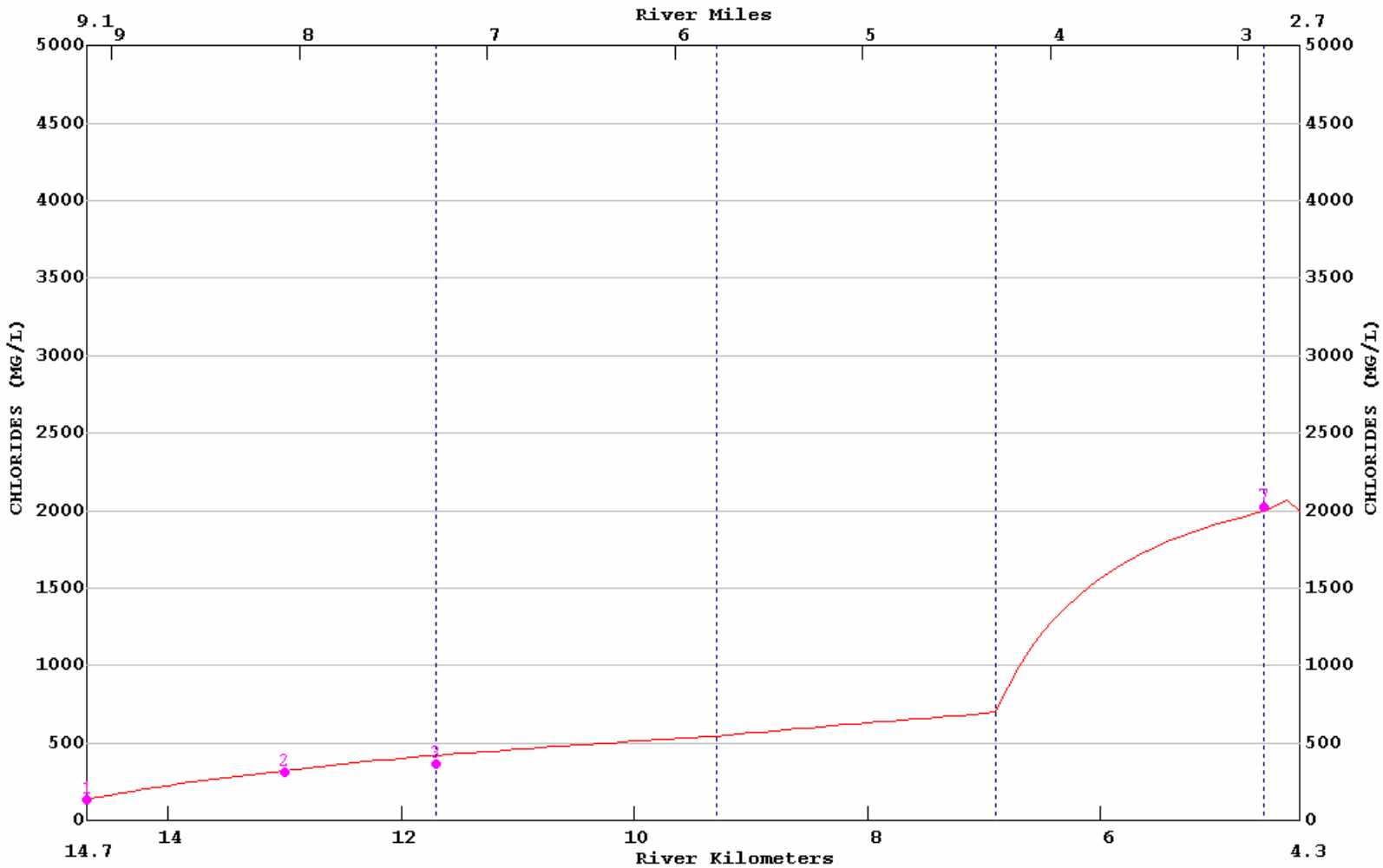
LA-QUAL Version 8.00 Run at 09:59 on 09/11/2006 File O:\Personal_Folders\Karen\Chauvin\TMDL\Input Files\Chauvin 120507
BAYOU CHAUVIN 120507 FINAL CALIBRATION RUN min= 2.70 max= 3.60
:MAINSTEM



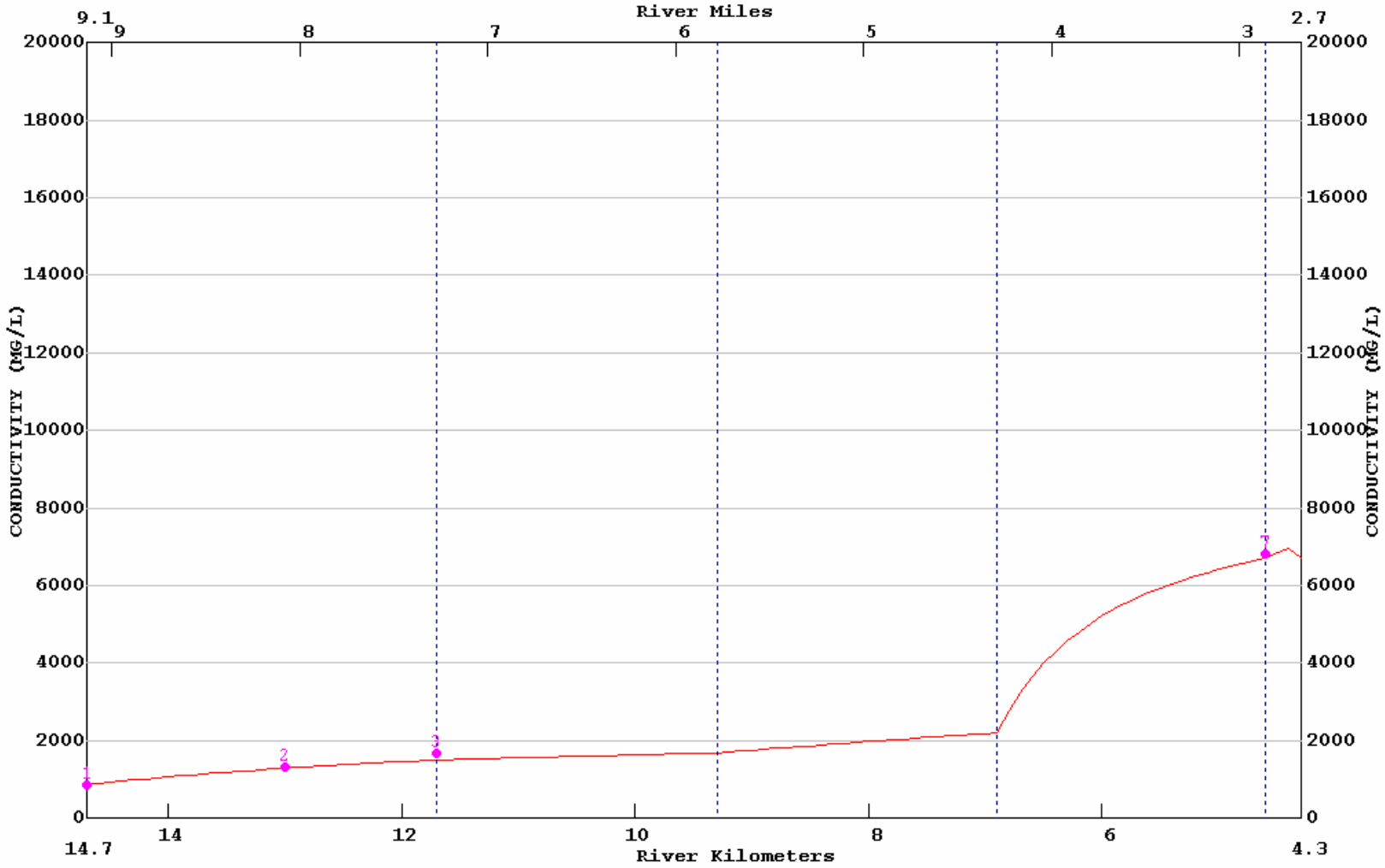
LA-QUAL Version 8.00 Run at 09:59 on 09/11/2006 File O:\Personal_Folders\Karen\Chauvin\TMDL\Input Files\Chauvin 120507
BAYOU CHAUVIN 120507 FINAL CALIBRATION RUN min= 36.20 max= 105.00
:MAINSTEM



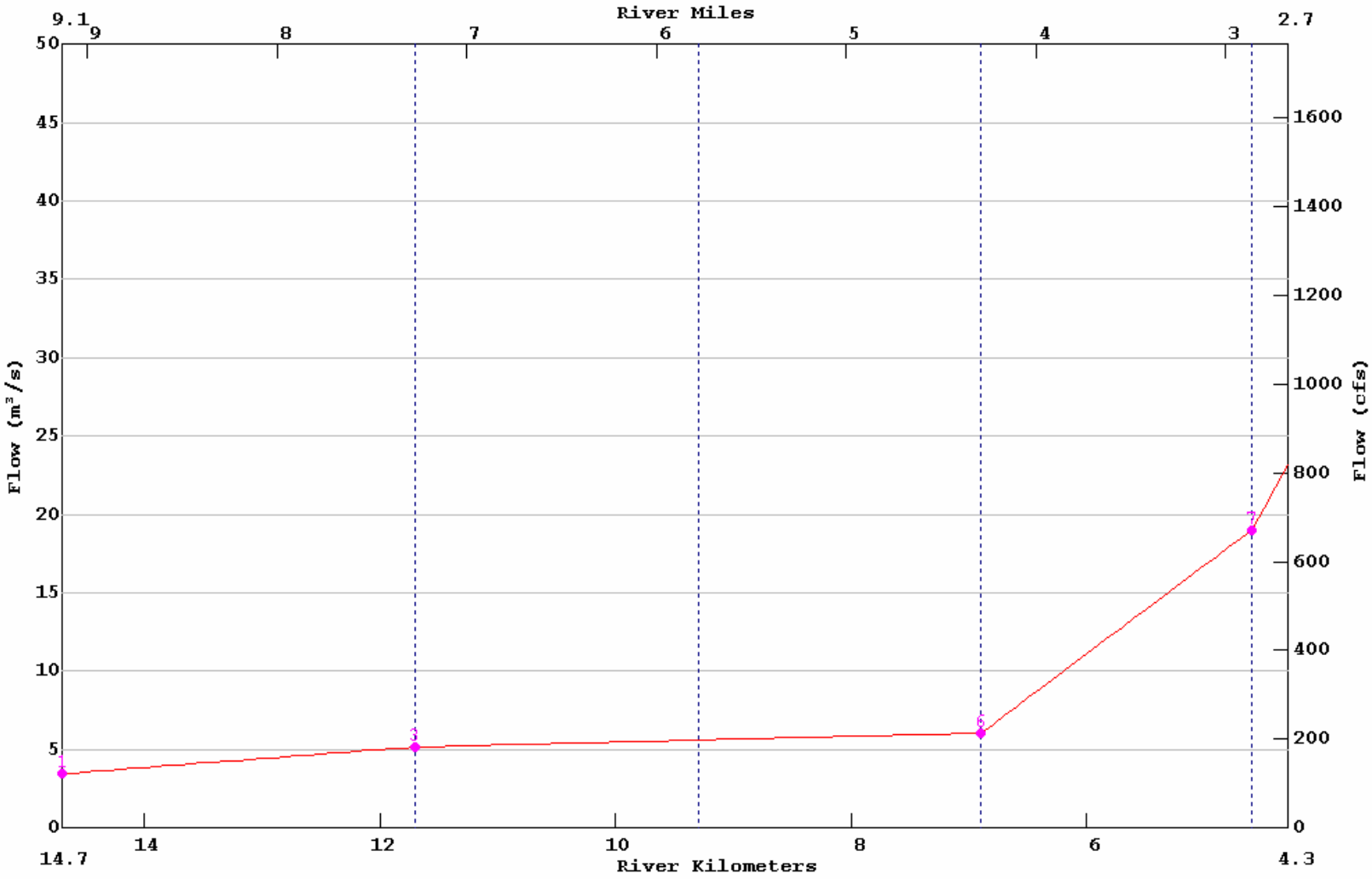
LA-QUAL Version 8.00 Run at 09:59 on 09/11/2006 File O:\Personal_Folders\Karen\Chauvin\TMDL\Input Files\Chauvin 120507
BAYOU CHAUVIN 120507 FINAL CALIBRATION RUN min= 137.00 max= 2068.26
:MAINSTEM



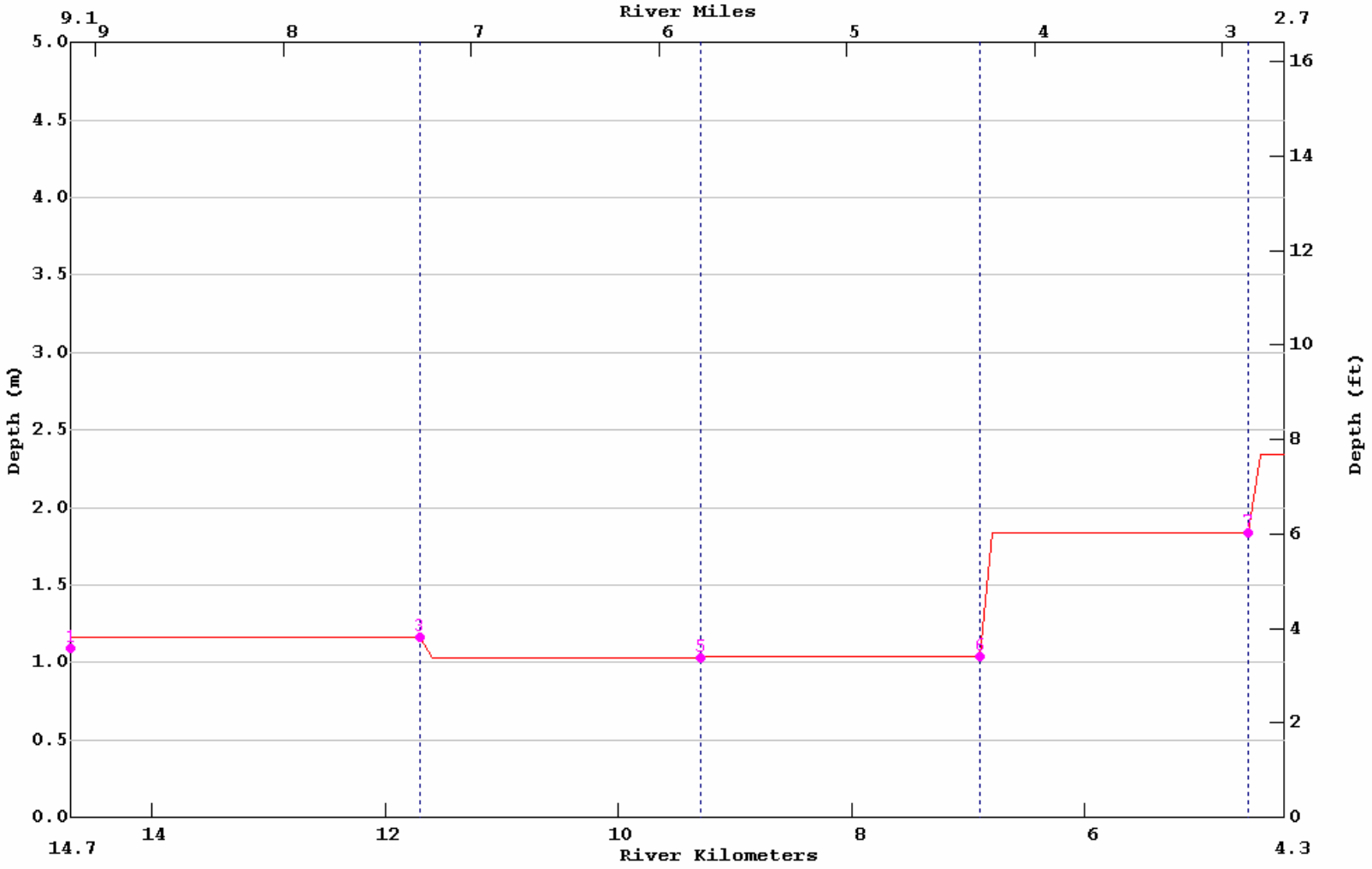
LA-QUAL Version 8.00 Run at 09:59 on 09/11/2006 File O:\Personal_Folders\Karen\Chauvin\TMDL\Input Files\Chauvin 120507
BAYOU CHAUVIN 120507 FINAL CALIBRATION RUN min= 865.30 max= 6957.47
:MAINSTEM



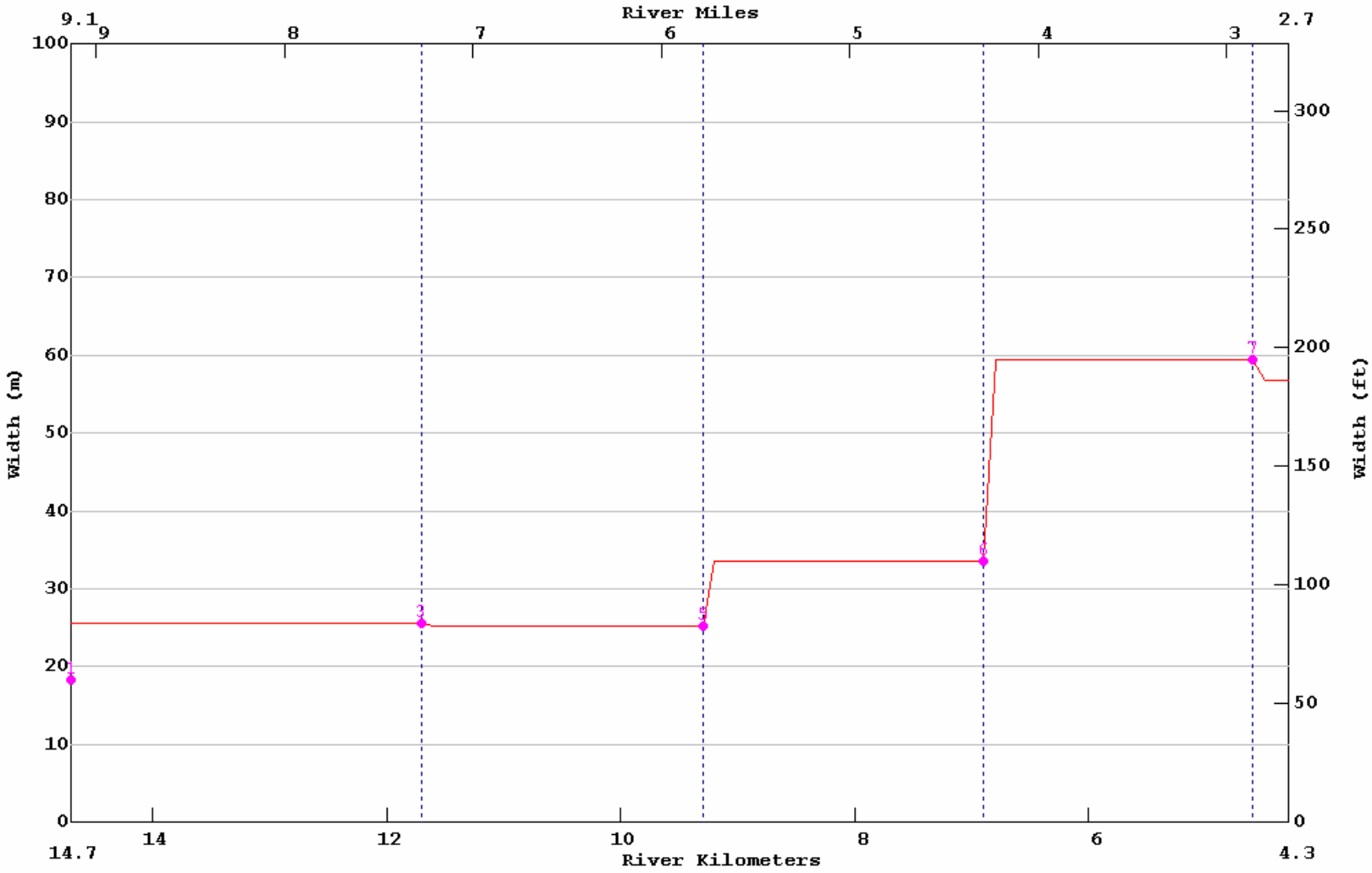
LA-QUAL Version 8.00 Run at 09:59 on 09/11/2006 File O:\Personal_Folders\Karen\Chauvin\TMDL\Input Files\Chauvin 120507
BAYOU CHAUVIN 120507 FINAL CALIBRATION RUN min= 3.46 max= 23.15
:MAINSTEM



LA-QUAL Version 8.00 Run at 09:59 on 09/11/2006 File O:\Personal_Folders\Karen\Chauvin\TMDL\Input Files\Chauvin 120507
BAYOU CHAUVIN 120507 FINAL CALIBRATION RUN min= 1.03 max= 2.34
:MAINSTEM



LA-QUAL Version 8.00 Run at 09:59 on 09/11/2006 File O:\Personal_Folders\Karen\Chauvin\TMDL\Input Files\Chauvin 120507
BAYOU CHAUVIN 120507 FINAL CALIBRATION RUN min= 25.30 max= 59.44
:MAINSTEM



## BAYOU CHAUVIN Calibration Input File

```
CNTROL01     BAYOU CHAUVIN 120507 WATERSHED MODEL
CNTROL02     BAYOU CHAUVIN 120507 FINAL CALIBRATION RUN
CNTROL04 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CHLORIDES                  IN MG/L
MODOPT04 YES CONSERVATIVE MATERIAL II = CONDUCTIVITY               IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07  NO BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT10  NO PHOSPHORUS
MODOPT11  NO CHLOROPHYLL A
MODOPT12  NO MACROPHYTES
MODOPT13  NO COLIFORM
ENDATA02
PROGRAM  KL MINIMUM                        =     0.7
PROGRAM  INHIBITION CONTROL VALUE          =     3.
PROGRAM  K2 MAXIMUM                        =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD      =     2.
PROGRAM  SETTLING RATE UNITS               =     2.
PROGRAM  TIDE HEIGHT                       =     0.09
PROGRAM  SOD MAXIMUM RATE                  =     20.0
PROGRAM  DISPERSION EQUATION               =     3.
ENDATA03
!Temperature Correction Constants
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ******** ********
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------*********----------
```

```
!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
REACH ID    1  CH   BC01 - BC03                       14.7       11.7      0.1
REACH ID    2  CH   BC03 - BC05                       11.7        9.3      0.1
REACH ID    3  CH   BC05 - BC06                        9.3        6.9      0.1
REACH ID    4  CH   BC06 - BC07                        6.9        4.6      0.1
REACH ID    5  CH   BC07 - BC09                        4.6        4.3      0.1
ENDATA08
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------*******
!                a      b       c     d      e        f
!               WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#   COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
HYDR-1      1   0.00   0.10   25.512  0.00   0.10   1.164
HYDR-1      2   0.00   0.10   25.298  0.00   0.10   1.033
HYDR-1      3   0.00   0.10   33.528  0.00   0.10   1.036
HYDR-1      4   0.00   0.10   59.436  0.00   0.10   1.838
HYDR-1      5   0.00   0.10   56.726  0.00   0.10   2.344
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
HYDR-2      1   1.0   1.500       0.8333    0.0       1.0
HYDR-2      2   1.0   1.500       0.8333    0.0       1.0
HYDR-2      3   1.0   1.500       0.8333    0.0       1.0
HYDR-2      4   1.0   1.500       0.8333    0.0       1.0
HYDR-2      5   1.0   1.500       0.8333    0.0       1.0
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO     NH3 N  NIT NIT  PHOS   CHL A   MACROPHYTES
INITIAL     1    27.53  0.71     3.33                            60.00
INITIAL     2    27.54  1.21     1.23                            36.20
INITIAL     3    28.30  3.47     3.94                            87.70
INITIAL     4    28.33  3.72     4.15                            68.50
```

```
INITIAL     5    28.59  4.24     4.75                            68.50
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----****------ ******-------*******-------*******-------*******-------***
!               REA                            CBOD   CBOD
!          R#   EQ      K2             SOD    DECAY  SETT
COEF-1      1   11                   17.50   0.0780  0.40
COEF-1      2   11                    1.00   0.0699  0.40
COEF-1      3   11                    1.00   0.0762  0.40
COEF-1      4   11                    3.50   0.0671  0.40
COEF-1      5   11                    5.00   0.0661  0.40
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
COEF-2      1  0.1081   0.05
COEF-2      2  0.1104   0.05
COEF-2      3  0.1127   0.05
COEF-2      4  0.0875   0.05
COEF-2      5  0.0878   0.05
ENDATA13
ENDATA14
!Coliform and Nonconservative Cofficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
INCR-1     1              1.7059  27.53      0.7      1000    2800
INCR-1     2              0.4437  27.54      1.2      2000    3800
INCR-1     3              0.4437  28.30      3.5      2600    8800
INCR-1     4             12.9614  28.33      3.7      2600    8800
```

```
INCR-1     5              4.1272  28.59      4.2      2600    8800
ENDATA16
!Incremental Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------********---------********---------********
!          R#      DO     CBOD      NBOD    NH3 N   NIT NIT    BOD 2
INCR-2     1      3.33   9.9965    2.5147
INCR-2     2      3.33  13.9415    2.8557
INCR-2     3      3.94  16.7325    3.5311
INCR-2     4      4.15  15.5489    3.5719
INCR-2     5      4.75  15.1520    3.5286
ENDATA17
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------********---------********
!          R#   PHOSPH    CHL A   COLIFORM NONCONSERVATIVE
INCR-3     1              60.0
INCR-3     2              36.2
INCR-3     3              87.7
INCR-3     4              68.5
INCR-3     5              68.5
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------********---------********---------********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1    1200     90.00
NONPOINT    2    3200    400.00
NONPOINT    3    1000    100.00
NONPOINT    4    1500    150.00
NONPOINT    5    1500    150.00
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   CHLORIDE   COND
HDWTR-1     1  HEADWATER - BC01           3.4604  27.93  0.20    137.0    865.3
```

```
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********---------********---------*********
!          E#      DO      BOD 1    NBOD    NH3 N    NIT NIT  BOD 2
HDWTR-2     1      5.24   8.9473   2.7039
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********---------********
!          E#  PHOSPHOR   CHL A   COLIFORM  NONCONSERVATIVE
HDWTR-3     1
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  --------------------********---------********---------********
!          E#     NAME               FLOW      TEMP   SALINITY CHLORIDE  COND
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********-----********---------*****---------********
!          E#       DO    BOD 1         NBOD    NH3 N          NIT NIT  BOD 2
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********---------********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
ENDATA26
LOWER BC TEMPERATURE                        =  28.83
LOWER BC SALINITY                           =   4.51
LOWER BC CONSERVATIVE MATERIAL I            =2274.0
LOWER BC CONSERVATIVE MATERIAL II           =7601.0
LOWER BC DISSOLVED OXYGEN                   =   5.14
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =  14.755
LOWER BC CHLOROPHYLL A                      = 105.0
```

```
LOWER BC NBOD                                =   3.4853
ENDATA27
!Dam Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ******************** ** ******** ******** ********
ENDATA28
ENDATA29
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =  05                        INCREMENT = 0.1
PLOT RCH  1  2  3  4  5
ENDATA30
OVERLAY 1 chauvinovl.txt                     :MAINSTEM
ENDATA31
```

## BAYOU CHAUVIN 120507 CALIBRATION OVERLAY DATA SET

```
STATION  1  KILOMETER  14.7
 3             137.0
 4             865.3
 5     3.0       5.24     10.4
 6               8.9473
18               2.7039
31               3.4604
33               1.088
34              18.288
STATION  2  KILOMETER  13.0
 3             312.0
 4            1321.0
 5     2.66      3.52      5.33
 6               9.8919
13              45.1
18               2.6598
STATION  3  KILOMETER  11.7
 3             362.0
 4            1679.0
 5     0.13      1.23      3.18
 6              11.1504
13              36.2
```

```
18                 2.1802
31                 5.1663
33                 1.164
34                25.512
STATION  5  KILOMETER   9.3
 6                16.7325
13                87.7
18                 3.5311
33                 1.033
34                25.298
STATION  6  KILOMETER   6.9
 5      1.9       3.94      8.4
31                 6.0537
33                 1.036
34                33.528
STATION  7  KILOMETER   4.6
 3             2027.0
 4             6833.0
 5      2.85      4.36      4.63
 6              15.5489
13              68.5
18                 3.5718
31                19.0151
33                 1.838
34                59.436
STATION  9  KILOMETER   0.0
 3             2274.0
 4             7601.0
 5     2.82       5.14     7.57
 6                14.7551
13              105.0
18                 3.4853
31                23.1423
33                 2.344
34                56.726
END
```

# BAYOU CHAUVIN 120507 CALIBRATION OUTPUT DATA SET

```
LA-QUAL Version 8.00
Louisiana Department of Environmental Quality

Input file is O:\Personal_Folders\Karen\Chauvin\TMDL\Input Files\Chauvin 120507 Calibration.txt
Output produced at 09:59 on 09/11/2006

$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$

CARD TYPE       CONTROL TITLES

TITLE01         BAYOU CHAUVIN 120507 WATERSHED MODEL
TITLE02         BAYOU CHAUVIN 120507 FINAL CALIBRATION RUN
CNTROL04  YES   METRIC UNITS
ENDATA01

$$$ DATA TYPE 2 (MODEL OPTIONS) $$$

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03  YES   CONSERVATIVE MATERIAL  I = CHLORIDES                 IN MG/L
MODOPT04  YES   CONSERVATIVE MATERIAL II = CONDUCTIVITY              IN MG/L
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07   NO   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08  YES   NBOD OXYGEN DEMAND
MODOPT10   NO   PHOSPHORUS
MODOPT11   NO   CHLOROPHYLL A
MODOPT12   NO   MACROPHYTES
MODOPT13   NO   COLIFORM
ENDATA02

$$$ DATA TYPE 3 (PROGRAM CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         KL MINIMUM                        =         0.70000 meters/day
PROGRAM         INHIBITION CONTROL VALUE          =         3.00000 (inhibit all rates but SOD)
PROGRAM         K2 MAXIMUM                        =        25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD      =         2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS               =         2.00000 (values entered as per day)
PROGRAM         TIDE HEIGHT                       =         0.09000 meters
PROGRAM         SOD MAXIMUM RATE                  =        20.00000 gm/sq m/day
PROGRAM         DISPERSION EQUATION               =         3.00000 (values entered as a function of D,Q,Vmean)
ENDATA03

$$$ DATA TYPE 4 (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

 CARD TYPE     RATE CODE     THETA VALUE
```

```
ENDATA04

$$$ CONSTANTS TYPE 5 (TEMPERATURE DATA) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05

$$$ DATA TYPE 6 (ALGAE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA06

$$$ DATA TYPE 7 (MACROPHYTE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                                        BEGIN        END     ELEM    REACH     ELEMS   BEGIN    END
CARD TYPE  REACH  ID  NAME                              REACH       REACH   LENGTH   LENGTH    PER RCH   ELEM   ELEM
                                                           km          km       km       km                NUM    NUM

REACH ID      1   CH    BC01 - BC03                     14.70  TO   11.70   0.1000     3.00      30        1     30
REACH ID      2   CH    BC03 - BC05                     11.70  TO    9.30   0.1000     2.40      24       31     54
REACH ID      3   CH    BC05 - BC06                      9.30  TO    6.90   0.1000     2.40      24       55     78
REACH ID      4   CH    BC06 - BC07                      6.90  TO    4.60   0.1000     2.30      23       79    101
REACH ID      5   CH    BC07 - BC09                      4.60  TO    4.30   0.1000     0.30       3      102    104
ENDATA08

$$$ DATA TYPE 9 (ADVECTIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID       WIDTH       WIDTH       WIDTH       DEPTH       DEPTH       DEPTH      SLOPE    MANNINGS
                            "A"         "B"         "C"         "D"         "E"         "F"                  "N"

HYDR-1        1   CH       0.000       0.100      25.512       0.000       0.100       1.164     0.00000   0.000
HYDR-1        2   CH       0.000       0.100      25.298       0.000       0.100       1.033     0.00000   0.000
HYDR-1        3   CH       0.000       0.100      33.528       0.000       0.100       1.036     0.00000   0.000
HYDR-1        4   CH       0.000       0.100      59.436       0.000       0.100       1.838     0.00000   0.000
HYDR-1        5   CH       0.000       0.100      56.726       0.000       0.100       2.344     0.00000   0.000
ENDATA09

$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID     TIDAL     DISPERSION     DISPERSION     DISPERSION     DISPERSION
                        RANGE        "A"            "B"            "C"            "D"

HYDR          1   CH      1.00        1.500          0.833          0.000          1.000
```

```
HYDR          2   CH      1.00        1.500          0.833          0.000          1.000
HYDR          3   CH      1.00        1.500          0.833          0.000          1.000
HYDR          4   CH      1.00        1.500          0.833          0.000          1.000
HYDR          5   CH      1.00        1.500          0.833          0.000          1.000
ENDATA10

$$$ DATA TYPE 11 (INITIAL CONDITIONS) $$$

CARD TYPE      REACH  ID        TEMP     SALIN        DO       NH3     NO3+2      PHOS     CHL A     MACRO

INITIAL           1   CH       27.53      0.71      3.33      0.00      0.00      0.00     60.00      0.00
INITIAL           2   CH       27.54      1.21      1.23      0.00      0.00      0.00     36.20      0.00
INITIAL           3   CH       28.30      3.47      3.94      0.00      0.00      0.00     87.70      0.00
INITIAL           4   CH       28.33      3.72      4.15      0.00      0.00      0.00     68.50      0.00
INITIAL           5   CH       28.59      4.24      4.75      0.00      0.00      0.00     68.50      0.00
ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                                                                  BOD     ANAER                          BOD2     ANAER
CARD     RCH  RCH  K2                    K2        K2        K2    BKGRND      BOD       BOD     CONV      BOD2      BOD2      BOD2     CONV      BOD2
TYPE     NUM   ID  OPT                   "A"       "B"       "C"       SOD    DECAY      SETT   TO SOD     DECAY     DECAY      SETT   TO SOD     DECAY
                                                                   g/m²/d   per day       m/d              per day   per day       m/d              per day

COEF-1     1   CH  11 TEXAS            0.000     0.000     0.000    17.500     0.078     0.400     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     2   CH  11 TEXAS            0.000     0.000     0.000     1.000     0.070     0.400     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     3   CH  11 TEXAS            0.000     0.000     0.000     1.000     0.076     0.400     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     4   CH  11 TEXAS            0.000     0.000     0.000     3.500     0.067     0.400     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     5   CH  11 TEXAS            0.000     0.000     0.000     5.000     0.066     0.400     0.000     0.000     0.000     0.000     0.000     0.000
ENDATA12

$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$

CARD TYPE      REACH  ID        NBOD      NBOD   ORGN CONV       NH3       NH3      PHOS     DENIT
                                 DECA      SETT  TO NH3 SRCE      DECA      SRCE      SRCE      RATE

COEF-2           1   CH       0.108     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           2   CH       0.110     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           3   CH       0.113     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           4   CH       0.087     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           5   CH       0.088     0.050     0.000       0.000     0.000     0.000     0.000
ENDATA13

$$$ DATA TYPE 14 (ALGAE AND MACROPHYTE COEFFICIENTS) $$$

CARD TYPE      REACH  ID       SECCHI    ALGAE:     ALGAE    ALG CONV     ALGAE     ALGAE     MACRO     MACRO
                                DEPTH     CHL A      SETT     TO SOD      GROW      RESP      GROW      RESP

ENDATA14

$$$ DATA TYPE 15 (COLIFORM AND NONCONSERVATIVE COEFFICIENTS) $$$
```

```
CARD TYPE      REACH  ID    COLIFORM       NCM       NCM    NCM CONV
                            DIE-OFF     DECAY      SETT     TO SOD

ENDATA15

$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE      REACH  ID       OUTFLOW      INFLOW      TEMP     SALIN      CM-I     CM-II   IN/DIST  OUT/DIST

INCR-1           1   CH       0.00000     1.70590     27.53      0.70   1000.00   2800.00   0.56863   0.00000
INCR-1           2   CH       0.00000     0.44370     27.54      1.20   2000.00   3800.00   0.18488   0.00000
INCR-1           3   CH       0.00000     0.44370     28.30      3.50   2600.00   8800.00   0.18487   0.00000
INCR-1           4   CH       0.00000    12.96140     28.33      3.70   2600.00   8800.00   5.63539   0.00000
INCR-1           5   CH       0.00000     4.12720     28.59      4.20   2600.00   8800.00  13.75735   0.00000
ENDATA16

$$$ DATA TYPE 17 (INCREMENTAL DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE      REACH  ID          DO       BOD      NBOD                          BOD#2

INCR-2           1   CH        3.33     10.00      2.51      0.00      0.00      0.00
INCR-2           2   CH        3.33     13.94      2.86      0.00      0.00      0.00
INCR-2           3   CH        3.94     16.73      3.53      0.00      0.00      0.00
INCR-2           4   CH        4.15     15.55      3.57      0.00      0.00      0.00
INCR-2           5   CH        4.75     15.15      3.53      0.00      0.00      0.00
ENDATA17

$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

INCR-3           1   CH        0.00     60.00      0.00      0.00
INCR-3           2   CH        0.00     36.20      0.00      0.00
INCR-3           3   CH        0.00     87.70      0.00      0.00
INCR-3           4   CH        0.00     68.50      0.00      0.00
INCR-3           5   CH        0.00     68.50      0.00      0.00
ENDATA18

$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$

CARD TYPE      REACH  ID       BOD#1     NBOD       COLI       NCM        DO     BOD#2

NONPOINT         1   CH     1200.00     90.00      0.00      0.00      0.00      0.00
NONPOINT         2   CH     3200.00    400.00      0.00      0.00      0.00      0.00
NONPOINT         3   CH     1000.00    100.00      0.00      0.00      0.00      0.00
NONPOINT         4   CH     1500.00    150.00      0.00      0.00      0.00      0.00
NONPOINT         5   CH     1500.00    150.00      0.00      0.00      0.00      0.00
ENDATA19

$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$
```

```
CARD TYPE     ELEMENT   NAME                  UNIT     FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                                       m³/s      cfs   deg C      ppt      MG/L      MG/L

HDWTR-1           1     HEADWATER - BC01        0   3.46040  122.189   27.93     0.20   137.000   865.300
ENDATA20

$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE     ELEMENT   NAME                          DO     BOD#1     NBOD                          BOD#2
                                                     mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2           1     HEADWATER - BC01            5.24      8.95      2.70      0.00      0.00      0.00
ENDATA21

$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                         PHOS     CHL A      COLI       NCM
                                                     mg/L      mg/L      mg/L      mg/L

HDWTR-3           1     HEADWATER - BC01             0.00      0.00      0.00      0.00
ENDATA22

$$$ DATA TYPE 23 (JUNCTION DATA) $$$

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

ENDATA23

$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE  ELEMENT    RKILO  NAME                      FLOW       FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                                       m³/s        cfs      MGD   deg C      ppt      MG/L      MG/L

WSTLD-1       39      10.90   Unknown Discharge     0.00280    0.09887    0.064   27.14     0.60   295.000  1304.000
ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                                  % BOD                          %
CARD TYPE     ELEMENT   NAME                          DO       BOD      RMVL     NBOD                NITRIF                BOD#2
                                                     mg/L      mg/L                mg/L      mg/L                mg/L      mg/L

WSTLD-2          39      Unknown Discharge          1.43     12.26      0.00      2.29      0.00      0.00      0.00      0.00
ENDATA25

$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                         PHOS     CHL A      COLI       NCM
                                                     mg/L      mg/L      mg/L      mg/L

WSTLD-3          39      Unknown Discharge          0.00      0.00      0.00      0.00
```

```
ENDATA26

$$$ DATA TYPE 27 (LOWER BOUNDARY CONDITIONS) $$$

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     28.830     deg C
LOWER BC     SALINITY                          =      4.510     ppt
LOWER BC     CONSERVATIVE MATERIAL I           =    274.000     MG/L
LOWER BC     CONSERVATIVE MATERIAL II          =    601.000     MG/L
LOWER BC     DISSOLVED OXYGEN                  =      5.140     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND    =     14.755     mg/L
LOWER BC     CHLOROPHYLL A                     =    105.000     µg/L
LOWER BC     NBOD                              =      3.485     mg/L
ENDATA27

$$$ DATA TYPE 28 (DAM DATA) $$$

CARD TYPE     ELEMENT   NAME                 EQN      "A"       "B"       "H"

ENDATA28

$$$ DATA TYPE 29 (SENSITIVITY ANALYSIS DATA) $$$

CARD TYPE       PARAMETER     COL 1     COL 2     COL 3     COL 4     COL 5     COL 6     COL 7     COL 8

ENDATA29

$$$ DATA TYPE 30 (PLOT CONTROL CARDS) $$$


NUMBER OF PLOTS =  1
NUMBER OF REACHES IN PLOT 1 =   5
PLOT RCH  1  2  3  4  5
ENDATA30

$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$


OVERLAY 1 chauvinovl.txt                     :MAINSTEM
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
```

```
FINAL REPORT    HEADWATER - BC01                                BAYOU CHAUVIN 120507 WATERSHED MODEL
REACH NO.  1      BC01 - BC03                                   BAYOU CHAUVIN 120507 FINAL CALIBRATION RUN
```

********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HDWTR | 3.46040 | 27.93 | 0.45 | 137.00 | 865.30 | 5.24 | 8.95 | 0.00 | 8.95 | 0.00 | 2.70 | 0.00 | 0.00 | 0.00 | 60.00 | 0.00 | 0.00 |
| EACH | INCR | 0.05686 | 27.53 | 0.70 | 1000.00 | 2800.00 | 3.33 | 10.00 | 0.00 | | | 2.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW m³/s | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME m³ | SURFACE AREA m² | X-SECT AREA m² | TIDAL PRISM m³ | TIDAL VELO m/s | DISPRSN m²/s | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14.70 | 14.60 | 3.51726 | 0.0 | 0.11844 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 229.61 | 0.000 | 0.202 | 0.118 |
| 2 | 14.60 | 14.50 | 3.57413 | 0.0 | 0.12036 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 459.22 | 0.000 | 0.205 | 0.120 |
| 3 | 14.50 | 14.40 | 3.63099 | 0.0 | 0.12227 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 688.82 | 0.001 | 0.208 | 0.122 |
| 4 | 14.40 | 14.30 | 3.68785 | 0.0 | 0.12419 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 918.43 | 0.001 | 0.211 | 0.124 |
| 5 | 14.30 | 14.20 | 3.74472 | 0.0 | 0.12610 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 1148.04 | 0.001 | 0.215 | 0.126 |
| 6 | 14.20 | 14.10 | 3.80158 | 0.0 | 0.12802 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 1377.65 | 0.001 | 0.218 | 0.128 |
| 7 | 14.10 | 14.00 | 3.85844 | 0.0 | 0.12993 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 1607.26 | 0.001 | 0.221 | 0.130 |
| 8 | 14.00 | 13.90 | 3.91531 | 0.0 | 0.13185 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 1836.86 | 0.001 | 0.224 | 0.132 |
| 9 | 13.90 | 13.80 | 3.97217 | 0.0 | 0.13376 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 2066.47 | 0.002 | 0.228 | 0.134 |
| 10 | 13.80 | 13.70 | 4.02903 | 0.0 | 0.13568 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 2296.08 | 0.002 | 0.231 | 0.136 |
| 11 | 13.70 | 13.60 | 4.08590 | 0.0 | 0.13759 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 2525.69 | 0.002 | 0.234 | 0.138 |
| 12 | 13.60 | 13.50 | 4.14276 | 0.0 | 0.13951 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 2755.30 | 0.002 | 0.237 | 0.140 |
| 13 | 13.50 | 13.40 | 4.19962 | 0.0 | 0.14142 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 2984.90 | 0.002 | 0.241 | 0.141 |
| 14 | 13.40 | 13.30 | 4.25649 | 0.0 | 0.14334 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 3214.51 | 0.002 | 0.244 | 0.143 |
| 15 | 13.30 | 13.20 | 4.31335 | 0.0 | 0.14525 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 3444.12 | 0.003 | 0.247 | 0.145 |
| 16 | 13.20 | 13.10 | 4.37021 | 0.0 | 0.14717 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 3673.73 | 0.003 | 0.251 | 0.147 |
| 17 | 13.10 | 13.00 | 4.42708 | 0.0 | 0.14908 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 3903.34 | 0.003 | 0.254 | 0.149 |
| 18 | 13.00 | 12.90 | 4.48394 | 0.0 | 0.15099 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 4132.94 | 0.003 | 0.257 | 0.151 |
| 19 | 12.90 | 12.80 | 4.54080 | 0.0 | 0.15291 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 4362.55 | 0.003 | 0.260 | 0.153 |
| 20 | 12.80 | 12.70 | 4.59767 | 0.0 | 0.15482 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 4592.16 | 0.003 | 0.264 | 0.155 |
| 21 | 12.70 | 12.60 | 4.65453 | 0.0 | 0.15674 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 4821.77 | 0.004 | 0.267 | 0.157 |
| 22 | 12.60 | 12.50 | 4.71139 | 0.0 | 0.15865 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 5051.38 | 0.004 | 0.270 | 0.159 |
| 23 | 12.50 | 12.40 | 4.76826 | 0.0 | 0.16057 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 5280.98 | 0.004 | 0.273 | 0.161 |
| 24 | 12.40 | 12.30 | 4.82512 | 0.0 | 0.16248 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 5510.59 | 0.004 | 0.277 | 0.162 |
| 25 | 12.30 | 12.20 | 4.88198 | 0.0 | 0.16440 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 5740.20 | 0.004 | 0.280 | 0.164 |
| 26 | 12.20 | 12.10 | 4.93885 | 0.0 | 0.16631 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 5969.81 | 0.004 | 0.283 | 0.166 |
| 27 | 12.10 | 12.00 | 4.99571 | 0.0 | 0.16823 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 6199.41 | 0.005 | 0.286 | 0.168 |
| 28 | 12.00 | 11.90 | 5.05257 | 0.0 | 0.17014 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 6429.02 | 0.005 | 0.290 | 0.170 |
| 29 | 11.90 | 11.80 | 5.10944 | 0.0 | 0.17206 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 6658.63 | 0.005 | 0.293 | 0.172 |
| 30 | 11.80 | 11.70 | 5.16630 | 0.0 | 0.17397 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 6888.24 | 0.005 | 0.296 | 0.174 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TOT | | | | | | | 0.24 | | | | | 89087.90 | 76536.00 | | | | | | | | | | | |
| AVG | | | | | | 0.1443 | | | 1.16 | 25.51 | | | | | | 29.70 | | | | | | | | |
| CUM | | | | | | | 0.24 | | | | | | | | | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14.600 | 7.86 | 1.08 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 14.500 | 7.86 | 1.08 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 14.400 | 7.86 | 1.09 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | 14.300 | 7.86 | 1.09 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 14.200 | 7.86 | 1.10 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.96 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 14.100 | 7.86 | 1.10 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.90 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 14.000 | 7.86 | 1.11 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 13.900 | 7.86 | 1.11 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.79 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 13.800 | 7.85 | 1.12 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.74 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 13.700 | 7.85 | 1.12 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.68 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 13.600 | 7.85 | 1.13 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.62 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 13.500 | 7.85 | 1.13 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 13.400 | 7.85 | 1.13 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.51 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14 | 13.300 | 7.85 | 1.14 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 13.200 | 7.85 | 1.14 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 13.100 | 7.85 | 1.15 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | 13.000 | 7.85 | 1.15 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | 12.900 | 7.85 | 1.15 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 12.800 | 7.85 | 1.16 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 12.700 | 7.85 | 1.16 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | 12.600 | 7.85 | 1.17 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.12 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 12.500 | 7.84 | 1.17 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.12 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 12.400 | 7.84 | 1.17 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.11 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.95 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 12.300 | 7.84 | 1.18 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 12.200 | 7.84 | 1.18 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.07 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 12.100 | 7.84 | 1.18 | 0.09 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.06 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.78 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | 12.000 | 7.84 | 1.19 | 0.09 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.05 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.73 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 11.900 | 7.84 | 1.19 | 0.08 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.04 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.67 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 11.800 | 7.84 | 1.20 | 0.08 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.03 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 11.700 | 7.84 | 1.20 | 0.07 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.14 | 28.14 | 28.14 | 0.03 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.56 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 0.99 | 0.08 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 17.50 | | | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14.600 | 27.53 | 0.73 | 150.72 | 896.05 | 5.03 | 9.04 | 0.00 | 9.04 | 0.00 | 2.70 | 0.00 | 0.00 | 0.00 | 0.00 | 59.21 | 0.00 | 0. | 0.00 |
| 2 | 14.500 | 27.53 | 0.74 | 164.23 | 926.33 | 4.83 | 9.14 | 0.00 | 9.14 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 58.41 | 0.00 | 0. | 0.00 |
| 3 | 14.400 | 27.53 | 0.76 | 177.31 | 955.67 | 4.64 | 9.22 | 0.00 | 9.22 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 57.62 | 0.00 | 0. | 0.00 |
| 4 | 14.300 | 27.53 | 0.78 | 189.99 | 984.10 | 4.45 | 9.31 | 0.00 | 9.31 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 56.83 | 0.00 | 0. | 0.00 |
| 5 | 14.200 | 27.53 | 0.79 | 202.29 | 1011.67 | 4.27 | 9.39 | 0.00 | 9.39 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 56.03 | 0.00 | 0. | 0.00 |
| 6 | 14.100 | 27.53 | 0.81 | 214.22 | 1038.41 | 4.10 | 9.47 | 0.00 | 9.47 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 55.24 | 0.00 | 0. | 0.00 |
| 7 | 14.000 | 27.53 | 0.83 | 225.80 | 1064.36 | 3.93 | 9.55 | 0.00 | 9.55 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 54.45 | 0.00 | 0. | 0.00 |
| 8 | 13.900 | 27.53 | 0.84 | 237.04 | 1089.57 | 3.77 | 9.63 | 0.00 | 9.63 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 53.65 | 0.00 | 0. | 0.00 |
| 9 | 13.800 | 27.53 | 0.86 | 247.96 | 1114.05 | 3.62 | 9.70 | 0.00 | 9.70 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 52.86 | 0.00 | 0. | 0.00 |
| 10 | 13.700 | 27.53 | 0.88 | 258.57 | 1137.83 | 3.47 | 9.77 | 0.00 | 9.77 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 52.07 | 0.00 | 0. | 0.00 |
| 11 | 13.600 | 27.53 | 0.89 | 268.88 | 1160.96 | 3.32 | 9.84 | 0.00 | 9.84 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 51.27 | 0.00 | 0. | 0.00 |
| 12 | 13.500 | 27.53 | 0.91 | 278.92 | 1183.45 | 3.18 | 9.90 | 0.00 | 9.90 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 50.48 | 0.00 | 0. | 0.00 |
| 13 | 13.400 | 27.53 | 0.93 | 288.68 | 1205.34 | 3.05 | 9.97 | 0.00 | 9.97 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 49.69 | 0.00 | 0. | 0.00 |
| 14 | 13.300 | 27.53 | 0.94 | 298.18 | 1226.64 | 2.92 | 10.03 | 0.00 | 10.03 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 48.89 | 0.00 | 0. | 0.00 |
| 15 | 13.200 | 27.53 | 0.96 | 307.43 | 1247.37 | 2.79 | 10.09 | 0.00 | 10.09 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 48.10 | 0.00 | 0. | 0.00 |
| 16 | 13.100 | 27.54 | 0.98 | 316.44 | 1267.57 | 2.67 | 10.15 | 0.00 | 10.15 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 47.31 | 0.00 | 0. | 0.00 |
| 17 | 13.000 | 27.54 | 0.99 | 325.22 | 1287.25 | 2.55 | 10.20 | 0.00 | 10.20 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 46.51 | 0.00 | 0. | 0.00 |
| 18 | 12.900 | 27.54 | 1.01 | 333.77 | 1306.43 | 2.44 | 10.26 | 0.00 | 10.26 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 45.72 | 0.00 | 0. | 0.00 |
| 19 | 12.800 | 27.54 | 1.03 | 342.11 | 1325.13 | 2.33 | 10.31 | 0.00 | 10.31 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 44.93 | 0.00 | 0. | 0.00 |
| 20 | 12.700 | 27.54 | 1.04 | 350.25 | 1343.37 | 2.22 | 10.36 | 0.00 | 10.36 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 44.13 | 0.00 | 0. | 0.00 |
| 21 | 12.600 | 27.54 | 1.06 | 358.18 | 1361.16 | 2.12 | 10.41 | 0.00 | 10.41 | 0.00 | 2.73 | 0.00 | 0.00 | 0.00 | 0.00 | 43.34 | 0.00 | 0. | 0.00 |
| 22 | 12.500 | 27.54 | 1.08 | 365.93 | 1378.52 | 2.02 | 10.46 | 0.00 | 10.46 | 0.00 | 2.73 | 0.00 | 0.00 | 0.00 | 0.00 | 42.55 | 0.00 | 0. | 0.00 |
| 23 | 12.400 | 27.54 | 1.09 | 373.49 | 1395.47 | 1.92 | 10.51 | 0.00 | 10.51 | 0.00 | 2.73 | 0.00 | 0.00 | 0.00 | 0.00 | 41.75 | 0.00 | 0. | 0.00 |
| 24 | 12.300 | 27.54 | 1.11 | 380.87 | 1412.02 | 1.83 | 10.55 | 0.00 | 10.55 | 0.00 | 2.73 | 0.00 | 0.00 | 0.00 | 0.00 | 40.96 | 0.00 | 0. | 0.00 |
| 25 | 12.200 | 27.54 | 1.13 | 388.08 | 1428.18 | 1.74 | 10.60 | 0.00 | 10.60 | 0.00 | 2.73 | 0.00 | 0.00 | 0.00 | 0.00 | 40.17 | 0.00 | 0. | 0.00 |
| 26 | 12.100 | 27.54 | 1.14 | 395.12 | 1443.97 | 1.65 | 10.64 | 0.00 | 10.64 | 0.00 | 2.73 | 0.00 | 0.00 | 0.00 | 0.00 | 39.37 | 0.00 | 0. | 0.00 |
| 27 | 12.000 | 27.54 | 1.16 | 402.01 | 1459.40 | 1.56 | 10.69 | 0.00 | 10.69 | 0.00 | 2.74 | 0.00 | 0.00 | 0.00 | 0.00 | 38.58 | 0.00 | 0. | 0.00 |
| 28 | 11.900 | 27.54 | 1.18 | 408.74 | 1474.49 | 1.48 | 10.73 | 0.00 | 10.73 | 0.00 | 2.74 | 0.00 | 0.00 | 0.00 | 0.00 | 37.79 | 0.00 | 0. | 0.00 |
| 29 | 11.800 | 27.54 | 1.19 | 415.32 | 1489.24 | 1.40 | 10.77 | 0.00 | 10.77 | 0.00 | 2.74 | 0.00 | 0.00 | 0.00 | 0.00 | 36.99 | 0.00 | 0. | 0.00 |
| 30 | 11.700 | 27.54 | 1.21 | 421.73 | 1503.55 | 1.33 | 10.82 | 0.00 | 10.82 | 0.00 | 2.75 | 0.00 | 0.00 | 0.00 | 0.00 | 36.20 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER - BC01 BAYOU CHAUVIN 120507 WATERSHED MODEL
REACH NO. 2 BC03 - BC05 BAYOU CHAUVIN 120507 FINAL CALIBRATION RUN

********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | UPR RCH | 5.16630 | 27.54 | 1.21 | 421.73 | 1503.55 | 1.33 | 10.82 | 0.00 | 10.82 | 0.00 | 2.75 | 0.00 | 0.00 | 0.00 | 36.20 | 0.00 | 0.00 |
| EACH | INCR | 0.01849 | 27.54 | 1.20 | 2000.00 | 3800.00 | 3.33 | 13.94 | 0.00 | | | 2.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 39 | WSTLD | 0.00280 | 27.14 | 0.60 | 295.00 | 1304.00 | 1.43 | 12.26 | 0.00 | 12.26 | 0.00 | 2.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST | ENDING DIST | FLOW | PCT EFF | ADVCTV VELO | TRAVEL TIME | DEPTH | WIDTH | VOLUME | SURFACE AREA | X-SECT AREA | TIDAL PRISM | TIDAL VELO | DISPRSN | MEAN VELO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | km | km | m³/s | | m/s | days | m | m | m³ | m² | m² | m³ | m/s | m²/s | m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 11.70 | 11.60 | 5.18479 | 0.0 | 0.19840 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 7115.92 | 0.006 | 0.306 | 0.198 |
| 32 | 11.60 | 11.50 | 5.20327 | 0.0 | 0.19911 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 7343.60 | 0.006 | 0.307 | 0.199 |
| 33 | 11.50 | 11.40 | 5.22176 | 0.0 | 0.19982 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 7571.28 | 0.006 | 0.308 | 0.200 |
| 34 | 11.40 | 11.30 | 5.24025 | 0.0 | 0.20052 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 7798.97 | 0.007 | 0.309 | 0.201 |
| 35 | 11.30 | 11.20 | 5.25874 | 0.0 | 0.20123 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 8026.65 | 0.007 | 0.310 | 0.201 |
| 36 | 11.20 | 11.10 | 5.27722 | 0.0 | 0.20194 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 8254.33 | 0.007 | 0.311 | 0.202 |
| 37 | 11.10 | 11.00 | 5.29571 | 0.0 | 0.20265 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 8482.01 | 0.007 | 0.312 | 0.203 |
| 38 | 11.00 | 10.90 | 5.31420 | 0.0 | 0.20335 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 8709.69 | 0.007 | 0.313 | 0.203 |
| 39 | 10.90 | 10.80 | 5.33549 | 0.1 | 0.20417 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 8937.38 | 0.008 | 0.315 | 0.204 |
| 40 | 10.80 | 10.70 | 5.35397 | 0.1 | 0.20488 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 9165.06 | 0.008 | 0.316 | 0.205 |
| 41 | 10.70 | 10.60 | 5.37246 | 0.1 | 0.20558 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 9392.74 | 0.008 | 0.317 | 0.206 |
| 42 | 10.60 | 10.50 | 5.39095 | 0.1 | 0.20629 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 9620.42 | 0.008 | 0.318 | 0.206 |
| 43 | 10.50 | 10.40 | 5.40944 | 0.1 | 0.20700 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 9848.10 | 0.008 | 0.319 | 0.207 |
| 44 | 10.40 | 10.30 | 5.42792 | 0.1 | 0.20771 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 10075.78 | 0.009 | 0.320 | 0.208 |
| 45 | 10.30 | 10.20 | 5.44641 | 0.1 | 0.20841 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 10303.47 | 0.009 | 0.321 | 0.208 |
| 46 | 10.20 | 10.10 | 5.46490 | 0.1 | 0.20912 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 10531.15 | 0.009 | 0.322 | 0.209 |
| 47 | 10.10 | 10.00 | 5.48339 | 0.1 | 0.20983 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 10758.83 | 0.009 | 0.323 | 0.210 |
| 48 | 10.00 | 9.90 | 5.50187 | 0.1 | 0.21053 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 10986.51 | 0.009 | 0.324 | 0.211 |
| 49 | 9.90 | 9.80 | 5.52036 | 0.1 | 0.21124 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 11214.19 | 0.010 | 0.326 | 0.211 |
| 50 | 9.80 | 9.70 | 5.53885 | 0.1 | 0.21195 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 11441.87 | 0.010 | 0.327 | 0.212 |
| 51 | 9.70 | 9.60 | 5.55734 | 0.1 | 0.21266 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 11669.56 | 0.010 | 0.328 | 0.213 |
| 52 | 9.60 | 9.50 | 5.57582 | 0.1 | 0.21336 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 11897.24 | 0.010 | 0.329 | 0.213 |
| 53 | 9.50 | 9.40 | 5.59431 | 0.1 | 0.21407 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 12124.92 | 0.010 | 0.330 | 0.214 |
| 54 | 9.40 | 9.30 | 5.61280 | 0.0 | 0.21478 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 12352.60 | 0.011 | 0.331 | 0.215 |
| TOT | | | | | | 0.13 | | | 62718.82 | 60715.21 | | | | | |
| AVG | | | | | 0.2065 | | 1.03 | 25.30 | | | 26.13 | | | | |
| CUM | | | | | | 0.38 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 11.600 | 7.83 | 1.38 | 0.07 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.61 | 1.61 | 1.61 | 0.03 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 32 | 11.500 | 7.82 | 1.39 | 0.07 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.61 | 1.61 | 1.61 | 0.04 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.87 | 0.00 | 0.00 | 0.00 | 0.00 |
| 33 | 11.400 | 7.81 | 1.39 | 0.08 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.62 | 1.62 | 1.62 | 0.05 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34 | 11.300 | 7.80 | 1.39 | 0.08 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.62 | 1.62 | 1.62 | 0.05 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35 | 11.200 | 7.80 | 1.39 | 0.08 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.62 | 1.62 | 1.62 | 0.06 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 36 | 11.100 | 7.79 | 1.39 | 0.08 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.63 | 1.63 | 1.63 | 0.07 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 37 | 11.000 | 7.78 | 1.40 | 0.09 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.63 | 1.63 | 1.63 | 0.08 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 38 | 10.900 | 7.77 | 1.40 | 0.09 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.63 | 1.63 | 1.63 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.82 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39 | 10.800 | 7.76 | 1.40 | 0.09 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.10 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40 | 10.700 | 7.75 | 1.40 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.11 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 41 | 10.600 | 7.75 | 1.40 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 42 | 10.500 | 7.74 | 1.41 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.65 | 1.65 | 1.65 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 43 | 10.400 | 7.73 | 1.41 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.65 | 1.65 | 1.65 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.62 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 44 | 10.300 | 7.72 | 1.41 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.65 | 1.65 | 1.65 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.78 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45 | 10.200 | 7.71 | 1.41 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.66 | 1.66 | 1.66 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 46 | 10.100 | 7.70 | 1.42 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.66 | 1.66 | 1.66 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| 47 | 10.000 | 7.70 | 1.42 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.66 | 1.66 | 1.66 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| 48 | 9.900 | 7.69 | 1.42 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.67 | 1.67 | 1.67 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.43 | 0.00 | 0.00 | 0.00 | 0.00 |
| 49 | 9.800 | 7.68 | 1.42 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.67 | 1.67 | 1.67 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.59 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50 | 9.700 | 7.67 | 1.42 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.67 | 1.67 | 1.67 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.76 | 0.00 | 0.00 | 0.00 | 0.00 |
| 51 | 9.600 | 7.66 | 1.43 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.68 | 1.68 | 1.68 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.92 | 0.00 | 0.00 | 0.00 | 0.00 |
| 52 | 9.500 | 7.65 | 1.43 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.68 | 1.68 | 1.68 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| 53 | 9.400 | 7.65 | 1.43 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.68 | 1.68 | 1.68 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 54 | 9.300 | 7.64 | 1.43 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.21 | 0.07 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | | | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 11.600 | 27.57 | 1.30 | 427.36 | 1511.74 | 1.39 | 11.09 | 0.00 | 11.09 | 0.00 | 2.78 | 0.00 | 0.00 | 0.00 | 0.00 | 38.35 | 0.00 | 0. | 0.00 |
| 32 | 11.500 | 27.60 | 1.40 | 432.94 | 1519.87 | 1.45 | 11.36 | 0.00 | 11.36 | 0.00 | 2.82 | 0.00 | 0.00 | 0.00 | 0.00 | 40.49 | 0.00 | 0. | 0.00 |
| 33 | 11.400 | 27.64 | 1.49 | 438.49 | 1527.94 | 1.51 | 11.63 | 0.00 | 11.63 | 0.00 | 2.85 | 0.00 | 0.00 | 0.00 | 0.00 | 42.64 | 0.00 | 0. | 0.00 |
| 34 | 11.300 | 27.67 | 1.59 | 444.00 | 1535.95 | 1.57 | 11.89 | 0.00 | 11.89 | 0.00 | 2.89 | 0.00 | 0.00 | 0.00 | 0.00 | 44.78 | 0.00 | 0. | 0.00 |
| 35 | 11.200 | 27.70 | 1.68 | 449.47 | 1543.91 | 1.63 | 12.15 | 0.00 | 12.15 | 0.00 | 2.92 | 0.00 | 0.00 | 0.00 | 0.00 | 46.93 | 0.00 | 0. | 0.00 |
| 36 | 11.100 | 27.73 | 1.78 | 454.90 | 1551.82 | 1.69 | 12.41 | 0.00 | 12.41 | 0.00 | 2.96 | 0.00 | 0.00 | 0.00 | 0.00 | 49.08 | 0.00 | 0. | 0.00 |
| 37 | 11.000 | 27.76 | 1.87 | 460.30 | 1559.66 | 1.75 | 12.67 | 0.00 | 12.67 | 0.00 | 2.99 | 0.00 | 0.00 | 0.00 | 0.00 | 51.22 | 0.00 | 0. | 0.00 |
| 38 | 10.900 | 27.79 | 1.96 | 465.65 | 1567.45 | 1.80 | 12.92 | 0.00 | 12.92 | 0.00 | 3.02 | 0.00 | 0.00 | 0.00 | 0.00 | 53.37 | 0.00 | 0. | 0.00 |
| 39 | 10.800 | 27.83 | 2.06 | 470.88 | 1575.05 | 1.86 | 13.17 | 0.00 | 13.17 | 0.00 | 3.06 | 0.00 | 0.00 | 0.00 | 0.00 | 55.51 | 0.00 | 0. | 0.00 |
| 40 | 10.700 | 27.86 | 2.15 | 476.16 | 1582.74 | 1.92 | 13.42 | 0.00 | 13.42 | 0.00 | 3.09 | 0.00 | 0.00 | 0.00 | 0.00 | 57.66 | 0.00 | 0. | 0.00 |
| 41 | 10.600 | 27.89 | 2.25 | 481.40 | 1590.37 | 1.97 | 13.66 | 0.00 | 13.66 | 0.00 | 3.12 | 0.00 | 0.00 | 0.00 | 0.00 | 59.80 | 0.00 | 0. | 0.00 |
| 42 | 10.500 | 27.92 | 2.34 | 486.61 | 1597.94 | 2.03 | 13.90 | 0.00 | 13.90 | 0.00 | 3.15 | 0.00 | 0.00 | 0.00 | 0.00 | 61.95 | 0.00 | 0. | 0.00 |
| 43 | 10.400 | 27.95 | 2.43 | 491.78 | 1605.47 | 2.08 | 14.14 | 0.00 | 14.14 | 0.00 | 3.18 | 0.00 | 0.00 | 0.00 | 0.00 | 64.10 | 0.00 | 0. | 0.00 |
| 44 | 10.300 | 27.98 | 2.53 | 496.92 | 1612.94 | 2.14 | 14.38 | 0.00 | 14.38 | 0.00 | 3.21 | 0.00 | 0.00 | 0.00 | 0.00 | 66.24 | 0.00 | 0. | 0.00 |
| 45 | 10.200 | 28.01 | 2.62 | 502.02 | 1620.37 | 2.19 | 14.61 | 0.00 | 14.61 | 0.00 | 3.24 | 0.00 | 0.00 | 0.00 | 0.00 | 68.39 | 0.00 | 0. | 0.00 |
| 46 | 10.100 | 28.05 | 2.72 | 507.09 | 1627.74 | 2.25 | 14.84 | 0.00 | 14.84 | 0.00 | 3.27 | 0.00 | 0.00 | 0.00 | 0.00 | 70.53 | 0.00 | 0. | 0.00 |
| 47 | 10.000 | 28.08 | 2.81 | 512.12 | 1635.06 | 2.30 | 15.07 | 0.00 | 15.07 | 0.00 | 3.30 | 0.00 | 0.00 | 0.00 | 0.00 | 72.68 | 0.00 | 0. | 0.00 |
| 48 | 9.900 | 28.11 | 2.90 | 517.12 | 1642.34 | 2.36 | 15.30 | 0.00 | 15.30 | 0.00 | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 74.82 | 0.00 | 0. | 0.00 |
| 49 | 9.800 | 28.14 | 3.00 | 522.09 | 1649.56 | 2.41 | 15.53 | 0.00 | 15.53 | 0.00 | 3.36 | 0.00 | 0.00 | 0.00 | 0.00 | 76.97 | 0.00 | 0. | 0.00 |
| 50 | 9.700 | 28.17 | 3.09 | 527.02 | 1656.74 | 2.47 | 15.75 | 0.00 | 15.75 | 0.00 | 3.39 | 0.00 | 0.00 | 0.00 | 0.00 | 79.12 | 0.00 | 0. | 0.00 |
| 51 | 9.600 | 28.20 | 3.19 | 531.92 | 1663.87 | 2.52 | 15.97 | 0.00 | 15.97 | 0.00 | 3.42 | 0.00 | 0.00 | 0.00 | 0.00 | 81.26 | 0.00 | 0. | 0.00 |
| 52 | 9.500 | 28.24 | 3.28 | 536.79 | 1670.95 | 2.58 | 16.19 | 0.00 | 16.19 | 0.00 | 3.45 | 0.00 | 0.00 | 0.00 | 0.00 | 83.41 | 0.00 | 0. | 0.00 |
| 53 | 9.400 | 28.27 | 3.38 | 541.62 | 1677.99 | 2.63 | 16.40 | 0.00 | 16.40 | 0.00 | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 | 85.55 | 0.00 | 0. | 0.00 |
| 54 | 9.300 | 28.30 | 3.47 | 546.46 | 1685.23 | 2.69 | 16.62 | 0.00 | 16.62 | 0.00 | 3.51 | 0.00 | 0.00 | 0.00 | 0.00 | 87.70 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER - BC01 BAYOU CHAUVIN 120507 WATERSHED MODEL
REACH NO. 3 BC05 - BC06 BAYOU CHAUVIN 120507 FINAL CALIBRATION RUN

********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | UPR RCH | 5.61280 | 28.30 | 3.47 | 546.46 | 1685.23 | 2.69 | 16.62 | 0.00 | 16.62 | 0.00 | 3.51 | 0.00 | 0.00 | 0.00 | 87.70 | 0.00 | 0.00 |
| EACH | INCR | 0.01849 | 28.30 | 3.50 | 2600.00 | 8800.00 | 3.94 | 16.73 | 0.00 | | | 3.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW m³/s | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME m³ | SURFACE AREA m² | X-SECT AREA m² | TIDAL PRISM m³ | TIDAL VELO m/s | DISPRSN m²/s | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | 9.30 | 9.20 | 5.63129 | 0.0 | 0.16212 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 12654.35 | 0.008 | 0.250 | 0.162 |
| 56 | 9.20 | 9.10 | 5.64977 | 0.0 | 0.16265 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 12956.10 | 0.008 | 0.251 | 0.163 |
| 57 | 9.10 | 9.00 | 5.66826 | 0.0 | 0.16319 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 13257.86 | 0.008 | 0.252 | 0.163 |
| 58 | 9.00 | 8.90 | 5.68675 | 0.0 | 0.16372 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 13559.61 | 0.009 | 0.253 | 0.164 |
| 59 | 8.90 | 8.80 | 5.70524 | 0.0 | 0.16425 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 13861.36 | 0.009 | 0.254 | 0.164 |
| 60 | 8.80 | 8.70 | 5.72372 | 0.0 | 0.16478 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 14163.11 | 0.009 | 0.255 | 0.165 |
| 61 | 8.70 | 8.60 | 5.74221 | 0.0 | 0.16531 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 14464.86 | 0.009 | 0.255 | 0.165 |
| 62 | 8.60 | 8.50 | 5.76070 | 0.0 | 0.16585 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 14766.62 | 0.009 | 0.256 | 0.166 |
| 63 | 8.50 | 8.40 | 5.77919 | 0.0 | 0.16638 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 15068.37 | 0.010 | 0.257 | 0.166 |
| 64 | 8.40 | 8.30 | 5.79767 | 0.0 | 0.16691 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 15370.12 | 0.010 | 0.258 | 0.167 |
| 65 | 8.30 | 8.20 | 5.81616 | 0.0 | 0.16744 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 15671.87 | 0.010 | 0.259 | 0.167 |
| 66 | 8.20 | 8.10 | 5.83465 | 0.0 | 0.16798 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 15973.62 | 0.010 | 0.260 | 0.168 |
| 67 | 8.10 | 8.00 | 5.85314 | 0.0 | 0.16851 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 16275.38 | 0.010 | 0.260 | 0.169 |
| 68 | 8.00 | 7.90 | 5.87162 | 0.0 | 0.16904 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 16577.13 | 0.011 | 0.261 | 0.169 |
| 69 | 7.90 | 7.80 | 5.89011 | 0.0 | 0.16957 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 16878.88 | 0.011 | 0.262 | 0.170 |
| 70 | 7.80 | 7.70 | 5.90860 | 0.0 | 0.17010 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 17180.63 | 0.011 | 0.263 | 0.170 |
| 71 | 7.70 | 7.60 | 5.92708 | 0.0 | 0.17064 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 17482.38 | 0.011 | 0.264 | 0.171 |
| 72 | 7.60 | 7.50 | 5.94557 | 0.0 | 0.17117 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 17784.14 | 0.011 | 0.264 | 0.171 |
| 73 | 7.50 | 7.40 | 5.96406 | 0.0 | 0.17170 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 18085.89 | 0.012 | 0.265 | 0.172 |
| 74 | 7.40 | 7.30 | 5.98255 | 0.0 | 0.17223 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 18387.64 | 0.012 | 0.266 | 0.172 |
| 75 | 7.30 | 7.20 | 6.00103 | 0.0 | 0.17277 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 18689.39 | 0.012 | 0.267 | 0.173 |
| 76 | 7.20 | 7.10 | 6.01952 | 0.0 | 0.17330 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 18991.14 | 0.012 | 0.268 | 0.173 |
| 77 | 7.10 | 7.00 | 6.03801 | 0.0 | 0.17383 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 19292.90 | 0.012 | 0.269 | 0.174 |
| 78 | 7.00 | 6.90 | 6.05650 | 0.0 | 0.17436 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 19594.65 | 0.013 | 0.269 | 0.174 |
| TOT | | | | | | 0.17 | | | 83364.01 | 80467.20 | | | | | |
| AVG | | | | | 0.1682 | | 1.04 | 33.53 | | | 34.74 | | | | |
| CUM | | | | | | 0.54 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | 9.200 | 7.64 | 1.32 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| 56 | 9.100 | 7.64 | 1.32 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 57 | 9.000 | 7.64 | 1.32 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 58 | 8.900 | 7.64 | 1.33 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.19 | 0.00 | 0.00 | 0.00 | 0.00 |
| 59 | 8.800 | 7.63 | 1.33 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60 | 8.700 | 7.63 | 1.33 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61 | 8.600 | 7.63 | 1.33 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 62 | 8.500 | 7.63 | 1.33 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.95 | 0.00 | 0.00 | 0.00 | 0.00 |
| 63 | 8.400 | 7.63 | 1.33 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.90 | 0.00 | 0.00 | 0.00 | 0.00 |
| 64 | 8.300 | 7.63 | 1.33 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65 | 8.200 | 7.63 | 1.33 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.78 | 0.00 | 0.00 | 0.00 | 0.00 |
| 66 | 8.100 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.72 | 0.00 | 0.00 | 0.00 | 0.00 |
| 67 | 8.000 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 68 | 7.900 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.60 | 0.00 | 0.00 | 0.00 | 0.00 |
| 69 | 7.800 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70 | 7.700 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.49 | 0.00 | 0.00 | 0.00 | 0.00 |
| 71 | 7.600 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.43 | 0.00 | 0.00 | 0.00 | 0.00 |
| 72 | 7.500 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 73 | 7.400 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.31 | 0.00 | 0.00 | 0.00 | 0.00 |
| 74 | 7.300 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75 | 7.200 | 7.62 | 1.35 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 76 | 7.100 | 7.62 | 1.35 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 77 | 7.000 | 7.62 | 1.35 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 78 | 6.900 | 7.62 | 1.35 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.15 | 0.08 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | | | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | 9.200 | 28.30 | 3.48 | 553.20 | 1708.59 | 2.75 | 16.63 | 0.00 | 16.63 | 0.00 | 3.51 | 0.00 | 0.00 | 0.00 | 0.00 | 86.90 | 0.00 | 0. | 0.00 |
| 56 | 9.100 | 28.30 | 3.49 | 559.89 | 1731.79 | 2.82 | 16.65 | 0.00 | 16.65 | 0.00 | 3.51 | 0.00 | 0.00 | 0.00 | 0.00 | 86.10 | 0.00 | 0. | 0.00 |
| 57 | 9.000 | 28.30 | 3.50 | 566.55 | 1754.84 | 2.88 | 16.66 | 0.00 | 16.66 | 0.00 | 3.52 | 0.00 | 0.00 | 0.00 | 0.00 | 85.30 | 0.00 | 0. | 0.00 |
| 58 | 8.900 | 28.31 | 3.51 | 573.16 | 1777.75 | 2.95 | 16.67 | 0.00 | 16.67 | 0.00 | 3.52 | 0.00 | 0.00 | 0.00 | 0.00 | 84.50 | 0.00 | 0. | 0.00 |
| 59 | 8.800 | 28.31 | 3.52 | 579.73 | 1800.50 | 3.01 | 16.69 | 0.00 | 16.69 | 0.00 | 3.52 | 0.00 | 0.00 | 0.00 | 0.00 | 83.70 | 0.00 | 0. | 0.00 |
| 60 | 8.700 | 28.31 | 3.53 | 586.25 | 1823.11 | 3.07 | 16.70 | 0.00 | 16.70 | 0.00 | 3.53 | 0.00 | 0.00 | 0.00 | 0.00 | 82.90 | 0.00 | 0. | 0.00 |
| 61 | 8.600 | 28.31 | 3.54 | 592.73 | 1845.57 | 3.13 | 16.72 | 0.00 | 16.72 | 0.00 | 3.53 | 0.00 | 0.00 | 0.00 | 0.00 | 82.10 | 0.00 | 0. | 0.00 |
| 62 | 8.500 | 28.31 | 3.55 | 599.18 | 1867.89 | 3.18 | 16.73 | 0.00 | 16.73 | 0.00 | 3.53 | 0.00 | 0.00 | 0.00 | 0.00 | 81.30 | 0.00 | 0. | 0.00 |
| 63 | 8.400 | 28.31 | 3.56 | 605.58 | 1890.06 | 3.24 | 16.74 | 0.00 | 16.74 | 0.00 | 3.54 | 0.00 | 0.00 | 0.00 | 0.00 | 80.50 | 0.00 | 0. | 0.00 |
| 64 | 8.300 | 28.31 | 3.57 | 611.94 | 1912.10 | 3.29 | 16.76 | 0.00 | 16.76 | 0.00 | 3.54 | 0.00 | 0.00 | 0.00 | 0.00 | 79.70 | 0.00 | 0. | 0.00 |
| 65 | 8.200 | 28.31 | 3.58 | 618.25 | 1933.99 | 3.35 | 16.77 | 0.00 | 16.77 | 0.00 | 3.54 | 0.00 | 0.00 | 0.00 | 0.00 | 78.90 | 0.00 | 0. | 0.00 |
| 66 | 8.100 | 28.31 | 3.60 | 624.53 | 1955.74 | 3.40 | 16.78 | 0.00 | 16.78 | 0.00 | 3.54 | 0.00 | 0.00 | 0.00 | 0.00 | 78.10 | 0.00 | 0. | 0.00 |
| 67 | 8.000 | 28.32 | 3.61 | 630.77 | 1977.36 | 3.45 | 16.80 | 0.00 | 16.80 | 0.00 | 3.55 | 0.00 | 0.00 | 0.00 | 0.00 | 77.30 | 0.00 | 0. | 0.00 |
| 68 | 7.900 | 28.32 | 3.62 | 636.97 | 1998.84 | 3.50 | 16.81 | 0.00 | 16.81 | 0.00 | 3.55 | 0.00 | 0.00 | 0.00 | 0.00 | 76.50 | 0.00 | 0. | 0.00 |
| 69 | 7.800 | 28.32 | 3.63 | 643.13 | 2020.19 | 3.55 | 16.82 | 0.00 | 16.82 | 0.00 | 3.55 | 0.00 | 0.00 | 0.00 | 0.00 | 75.70 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 70 | 7.700 | 28.32 | 3.64 | 649.26 | 2041.40 | 3.59 | 16.84 | 0.00 | 16.84 | 0.00 | 3.55 | 0.00 | 0.00 | 0.00 | 0.00 | 74.90 | 0.00 | 0. | 0.00 |
| 71 | 7.600 | 28.32 | 3.65 | 655.34 | 2062.48 | 3.64 | 16.85 | 0.00 | 16.85 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 74.10 | 0.00 | 0. | 0.00 |
| 72 | 7.500 | 28.32 | 3.66 | 661.39 | 2083.43 | 3.69 | 16.86 | 0.00 | 16.86 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 73.30 | 0.00 | 0. | 0.00 |
| 73 | 7.400 | 28.32 | 3.67 | 667.40 | 2104.25 | 3.73 | 16.87 | 0.00 | 16.87 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 72.50 | 0.00 | 0. | 0.00 |
| 74 | 7.300 | 28.33 | 3.68 | 673.37 | 2124.94 | 3.77 | 16.89 | 0.00 | 16.89 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 71.70 | 0.00 | 0. | 0.00 |
| 75 | 7.200 | 28.33 | 3.69 | 679.30 | 2145.50 | 3.82 | 16.90 | 0.00 | 16.90 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 70.90 | 0.00 | 0. | 0.00 |
| 76 | 7.100 | 28.33 | 3.70 | 685.20 | 2165.94 | 3.86 | 16.91 | 0.00 | 16.91 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 70.10 | 0.00 | 0. | 0.00 |
| 77 | 7.000 | 28.33 | 3.71 | 691.12 | 2186.43 | 3.90 | 16.92 | 0.00 | 16.92 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 69.30 | 0.00 | 0. | 0.00 |
| 78 | 6.900 | 28.33 | 3.72 | 700.26 | 2218.11 | 3.94 | 16.93 | 0.00 | 16.93 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER - BC01 BAYOU CHAUVIN 120507 WATERSHED MODEL
REACH NO. 4 BC06 - BC07 BAYOU CHAUVIN 120507 FINAL CALIBRATION RUN

********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | UPR RCH | 6.05650 | 28.33 | 3.72 | 700.26 | 2218.11 | 3.94 | 16.93 | 0.00 | 16.93 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0.00 |
| EACH | INCR | 0.56354 | 28.33 | 3.70 | 2600.00 | 8800.00 | 4.15 | 15.55 | 0.00 | | | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | 6.90 | 6.80 | 6.62004 | 0.0 | 0.06060 | 0.02 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 20129.57 | 0.004 | 0.151 | 0.061 |
| 80 | 6.80 | 6.70 | 7.18358 | 0.0 | 0.06576 | 0.02 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 20664.50 | 0.004 | 0.164 | 0.066 |
| 81 | 6.70 | 6.60 | 7.74711 | 0.0 | 0.07092 | 0.02 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 21199.42 | 0.004 | 0.177 | 0.071 |
| 82 | 6.60 | 6.50 | 8.31065 | 0.0 | 0.07607 | 0.02 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 21734.34 | 0.004 | 0.190 | 0.076 |
| 83 | 6.50 | 6.40 | 8.87419 | 0.0 | 0.08123 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 22269.27 | 0.005 | 0.202 | 0.081 |
| 84 | 6.40 | 6.30 | 9.43773 | 0.0 | 0.08639 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 22804.19 | 0.005 | 0.215 | 0.086 |
| 85 | 6.30 | 6.20 | 10.00127 | 0.0 | 0.09155 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 23339.12 | 0.005 | 0.228 | 0.092 |
| 86 | 6.20 | 6.10 | 10.56481 | 0.0 | 0.09671 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 23874.04 | 0.005 | 0.241 | 0.097 |
| 87 | 6.10 | 6.00 | 11.12835 | 0.0 | 0.10187 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 24408.96 | 0.005 | 0.254 | 0.102 |
| 88 | 6.00 | 5.90 | 11.69189 | 0.0 | 0.10703 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 24943.89 | 0.005 | 0.267 | 0.107 |
| 89 | 5.90 | 5.80 | 12.25543 | 0.0 | 0.11218 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 25478.81 | 0.005 | 0.279 | 0.112 |
| 90 | 5.80 | 5.70 | 12.81897 | 0.0 | 0.11734 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 26013.73 | 0.005 | 0.292 | 0.117 |
| 91 | 5.70 | 5.60 | 13.38251 | 0.0 | 0.12250 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 26548.66 | 0.005 | 0.305 | 0.123 |
| 92 | 5.60 | 5.50 | 13.94605 | 0.0 | 0.12766 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 27083.58 | 0.006 | 0.318 | 0.128 |
| 93 | 5.50 | 5.40 | 14.50959 | 0.0 | 0.13282 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 27618.51 | 0.006 | 0.331 | 0.133 |
| 94 | 5.40 | 5.30 | 15.07313 | 0.0 | 0.13798 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 28153.43 | 0.006 | 0.344 | 0.138 |
| 95 | 5.30 | 5.20 | 15.63667 | 0.0 | 0.14314 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 28688.35 | 0.006 | 0.357 | 0.143 |
| 96 | 5.20 | 5.10 | 16.20021 | 0.0 | 0.14829 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 29223.28 | 0.006 | 0.369 | 0.148 |
| 97 | 5.10 | 5.00 | 16.76375 | 0.0 | 0.15345 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 29758.20 | 0.006 | 0.382 | 0.153 |
| 98 | 5.00 | 4.90 | 17.32729 | 0.0 | 0.15861 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 30293.12 | 0.006 | 0.395 | 0.159 |
| 99 | 4.90 | 4.80 | 17.89083 | 0.0 | 0.16377 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 30828.05 | 0.006 | 0.408 | 0.164 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | 4.80 | 4.70 | 18.45436 | 0.0 | 0.16893 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 31362.97 | 0.006 | 0.421 | 0.169 |
| 101 | 4.70 | 4.60 | 19.01790 | 0.0 | 0.17409 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 31897.90 | 0.006 | 0.434 | 0.174 |
| TOT | | | | | | 0.25 | | | 251259.83 | 136702.83 | | | | | |
| AVG | | | | | 0.1066 | | 1.84 | 59.44 | | | 109.24 | | | | |
| CUM | | | | | | 0.79 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | 6.800 | 7.62 | 0.61 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.92 | 5.92 | 5.92 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80 | 6.700 | 7.62 | 0.62 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.92 | 5.92 | 5.92 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 81 | 6.600 | 7.62 | 0.63 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.93 | 5.93 | 5.93 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 82 | 6.500 | 7.61 | 0.65 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.93 | 5.93 | 5.93 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 83 | 6.400 | 7.61 | 0.66 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.94 | 5.94 | 5.94 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 84 | 6.300 | 7.61 | 0.67 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.94 | 5.94 | 5.94 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85 | 6.200 | 7.61 | 0.68 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.94 | 5.94 | 5.94 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 86 | 6.100 | 7.60 | 0.69 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.95 | 5.95 | 5.95 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87 | 6.000 | 7.60 | 0.70 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.95 | 5.95 | 5.95 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 88 | 5.900 | 7.60 | 0.71 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.96 | 5.96 | 5.96 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 89 | 5.800 | 7.60 | 0.72 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.96 | 5.96 | 5.96 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 5.700 | 7.59 | 0.73 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.96 | 5.96 | 5.96 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 91 | 5.600 | 7.59 | 0.74 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.97 | 5.97 | 5.97 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 92 | 5.500 | 7.59 | 0.74 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.97 | 5.97 | 5.97 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 93 | 5.400 | 7.59 | 0.75 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.98 | 5.98 | 5.98 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 94 | 5.300 | 7.58 | 0.76 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.98 | 5.98 | 5.98 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 95 | 5.200 | 7.58 | 0.77 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.99 | 5.99 | 5.99 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 96 | 5.100 | 7.58 | 0.78 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.99 | 5.99 | 5.99 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 97 | 5.000 | 7.58 | 0.78 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.99 | 5.99 | 5.99 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 98 | 4.900 | 7.57 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 6.00 | 6.00 | 6.00 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 99 | 4.800 | 7.57 | 0.80 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 6.00 | 6.00 | 6.00 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100 | 4.700 | 7.57 | 0.80 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 6.01 | 6.01 | 6.01 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 101 | 4.600 | 7.57 | 0.81 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 6.01 | 6.01 | 6.01 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 0.62 | 0.07 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 | | | 0.09 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | 6.800 | 28.34 | 3.74 | 862.35 | 2779.68 | 3.99 | 16.74 | 0.00 | 16.74 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 80 | 6.700 | 28.35 | 3.77 | 998.42 | 3251.11 | 4.04 | 16.58 | 0.00 | 16.58 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 81 | 6.600 | 28.36 | 3.79 | 1114.72 | 3654.07 | 4.08 | 16.44 | 0.00 | 16.44 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | 6.500 | 28.38 | 3.81 | 1215.28 | 4002.46 | 4.11 | 16.33 | 0.00 | 16.33 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 83 | 6.400 | 28.39 | 3.83 | 1303.08 | 4306.67 | 4.14 | 16.23 | 0.00 | 16.23 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 84 | 6.300 | 28.40 | 3.86 | 1380.42 | 4574.60 | 4.17 | 16.14 | 0.00 | 16.14 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 85 | 6.200 | 28.41 | 3.88 | 1449.05 | 4812.37 | 4.19 | 16.06 | 0.00 | 16.06 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 86 | 6.100 | 28.42 | 3.90 | 1510.36 | 5024.81 | 4.22 | 16.00 | 0.00 | 16.00 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 87 | 6.000 | 28.43 | 3.92 | 1565.47 | 5215.75 | 4.24 | 15.94 | 0.00 | 15.94 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 88 | 5.900 | 28.44 | 3.95 | 1615.28 | 5388.31 | 4.26 | 15.88 | 0.00 | 15.88 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 89 | 5.800 | 28.45 | 3.97 | 1660.51 | 5545.02 | 4.27 | 15.83 | 0.00 | 15.83 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 90 | 5.700 | 28.47 | 3.99 | 1701.77 | 5687.96 | 4.29 | 15.79 | 0.00 | 15.79 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 91 | 5.600 | 28.48 | 4.01 | 1739.56 | 5818.88 | 4.30 | 15.74 | 0.00 | 15.74 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 92 | 5.500 | 28.49 | 4.04 | 1774.29 | 5939.23 | 4.32 | 15.71 | 0.00 | 15.71 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 93 | 5.400 | 28.50 | 4.06 | 1806.33 | 6050.23 | 4.33 | 15.67 | 0.00 | 15.67 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 94 | 5.300 | 28.51 | 4.08 | 1835.98 | 6152.95 | 4.34 | 15.64 | 0.00 | 15.64 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 95 | 5.200 | 28.52 | 4.10 | 1863.49 | 6248.26 | 4.35 | 15.61 | 0.00 | 15.61 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 96 | 5.100 | 28.53 | 4.13 | 1889.09 | 6336.95 | 4.36 | 15.58 | 0.00 | 15.58 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 97 | 5.000 | 28.54 | 4.15 | 1912.97 | 6419.68 | 4.37 | 15.56 | 0.00 | 15.56 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 98 | 4.900 | 28.56 | 4.17 | 1935.29 | 6497.04 | 4.38 | 15.54 | 0.00 | 15.54 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 99 | 4.800 | 28.57 | 4.19 | 1956.22 | 6569.53 | 4.39 | 15.51 | 0.00 | 15.51 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 100 | 4.700 | 28.58 | 4.22 | 1975.88 | 6637.65 | 4.40 | 15.49 | 0.00 | 15.49 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 101 | 4.600 | 28.59 | 4.24 | 1995.08 | 6704.16 | 4.41 | 15.48 | 0.00 | 15.48 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER - BC01 BAYOU CHAUVIN 120507 WATERSHED MODEL
REACH NO. 5 BC07 - BC09 BAYOU CHAUVIN 120507 FINAL CALIBRATION RUN

********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | UPR RCH | 19.01790 | 28.59 | 4.24 | 1995.08 | 6704.16 | 4.41 | 15.48 | 0.00 | 15.48 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0.00 |
| EACH | INCR | 1.37573 | 28.59 | 4.20 | 2600.00 | 8800.00 | 4.75 | 15.15 | 0.00 | | | 3.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW m³/s | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME m³ | SURFACE AREA m² | X-SECT AREA m² | TIDAL PRISM m³ | TIDAL VELO m/s | DISPRSN m²/s | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | 4.60 | 4.50 | 20.39364 | 0.0 | 0.15338 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 32408.43 | 0.005 | 0.468 | 0.153 |
| 103 | 4.50 | 4.40 | 21.76937 | 0.0 | 0.16372 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 32918.96 | 0.006 | 0.499 | 0.164 |
| 104 | 4.40 | 4.30 | 23.14510 | 0.0 | 0.17407 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 33429.50 | 0.006 | 0.531 | 0.174 |
| TOT | | | | | | 0.02 | | | 39889.73 | 17017.80 | | | | | |
| AVG | | | | | 0.1633 | | 2.34 | 56.73 | | | 132.97 | | | | |
| CUM | | | | | | 0.81 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | 4.500 | 7.56 | 0.63 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.63 | 8.63 | 8.63 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 103 | 4.400 | 7.55 | 0.64 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.68 | 8.68 | 8.68 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 104 | 4.300 | 7.54 | 0.66 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.72 | 8.72 | 8.72 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 7.88 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 0.55 | 0.07 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 5.00 | | | 0.09 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* $g/m^2/d$ ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO $g/m^3$ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | 4.500 | 28.67 | 4.24 | 2035.81 | 6845.29 | 4.45 | 15.67 | 0.00 | 15.67 | 0.00 | 3.58 | 0.00 | 0.00 | 0.00 | 0.00 | 80.67 | 0.00 | 0. | 0.00 |
| 103 | 4.400 | 28.75 | 4.24 | 2068.26 | 6957.47 | 4.49 | 15.84 | 0.00 | 15.84 | 0.00 | 3.60 | 0.00 | 0.00 | 0.00 | 0.00 | 92.83 | 0.00 | 0. | 0.00 |
| 104 | 4.300 | 28.83 | 4.24 | 1996.87 | 6702.30 | 4.57 | 15.91 | 0.00 | 15.91 | 0.00 | 3.60 | 0.00 | 0.00 | 0.00 | 0.00 | 105.00 | 0.00 | 0. | 0.00 |

STREAM SUMMARY
HEADWATER - BC01

BAYOU CHAUVIN 120507 WATERSHED MODEL
BAYOU CHAUVIN 120507 FINAL CALIBRATION RUN

TRAVEL TIME = 0.81 DAYS

MAXIMUM EFFLUENT = 0.05 PERCENT

| | | | | | |
|---|---|---|---|---|---|
| FLOW | = | 3.51726 | TO | 23.14510 | $m^3/s$ |
| DISPERSION | = | 0.1510 | TO | 0.5310 | $m^2/s$ |
| VELOCITY | = | 0.06060 | TO | 0.21478 | m/s |
| DEPTH | = | 1.03 | TO | 2.34 | m |
| WIDTH | = | 25.30 | TO | 59.44 | m |
| BOD DECAY | = | 0.07 | TO | 0.11 | per day |
| NH3 DECAY | = | 0.00 | TO | 0.00 | per day |
| SOD | = | 1.61 | TO | 28.14 | $g/m^2/d$ |
| NH3 SOURCE | = | 0.00 | TO | 0.00 | $g/m^2/d$ |
| REAERATION | = | 0.61 | TO | 1.43 | per day |
| BOD SETTLING | = | 0.48 | TO | 0.49 | per day |
| NBOD DECAY | = | 0.03 | TO | 0.17 | per day |
| NBOD SETTLING | = | 0.06 | TO | 0.06 | per day |
| TEMPERATURE | = | 27.53 | TO | 28.83 | deg C |
| DISSOLVED OXYGEN | = | 1.33 | TO | 5.03 | mg/L |

```
.....EXECUTION COMPLETED
```

# Appendix B2 – Calibration Justification

| DATA TYPE 3 - PROGRAM CONSTANTS | | | |
|---|---|---|---|
| **CONSTANT NAME** | **VALUE** | **UNITS** | **DATA SOURCE** |
| KL MINIMUM | 0.7 | m/day | The minimum KL of 2.3 ft/day converted to 0.70 m/day. |
| INHIBITION CONTROL VALUE | 3 | | The water column dissolved oxygen demand is assumed to come primarily from facultative bacteria under anoxic conditions and SOD is not influenced by modeled dissolved oxygen levels in the upper water column. |
| K2 MAXIMUM | 25 | 1/day at 20 deg C | EPA Policy in the absence of a measured value. |
| HYDRAULIC CALCULATION METHOD | 2 | | The low slopes in this waterbody cause a substantial amount of water to be present during critical flow conditions. This method allows the model to predict a more accurate depth and width during low flow conditions. |
| SETTLING RATE UNITS | 2 | | By making the settling rate a velocity the rate becomes dependent upon the depth. |
| TIDE HEIGHT | 0.09 | m | Continuous Monitoring Data for BC09 |
| SOD MAXIMUM RATE | 20 | $gm/m^2$-day | The maximum SOD allowable regardless of the quantity of oxygen demanding materials settled. |
| DISPERSION EQUATION | 3 | | Equation used to account for composite tidal and advective flows. |

| DATA TYPE 8 - REACH IDENTIFICATION DATA | | | | | | |
|---|---|---|---|---|---|---|
| **Reach** | **ID** | **Name** | **Upstream River Kilometer** | **Downstream River Kilometer** | **Element Length, meters** | **Data Source** |
| 1 | CH | BC01 to BC03 | 14.70 | 11.70 | 100.0000 | ARC MAP Calc. |
| 2 | CH | BC03 to BC05 | 11.70 | 9.30 | 100.0000 | ARC MAP Calc. |
| 3 | CH | BC05 to BC06 | 9.30 | 6.90 | 100.0000 | ARC MAP Calc. |
| 4 | CH | BC06 to BC07 | 6.90 | 4.60 | 100.0000 | ARC MAP Calc. |
| 5 | CH | BC07 to BC09 | 4.60 | 0.00 | 100.0000 | ARC MAP Calc. |

| | DATA TYPE 9 - ADVECTIVE HYDRAULIC COEFFICIENTS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Reach** | **Name** | **Width Coeff. "a"** | **Width Exp. "b"** | **Width Const. "c"** | **Data Source** | **Depth Coeff. "d"** | **Depth Exp. "e"** | **Depth Const. "f"** | **Data Source** |
| 1 | BC01 to BC03 | 0 | 0.1 | 25.512 | BC03 | 0 | 0.1 | 1.164 | BC03 |
| 2 | BC03 to BC05 | 0 | 0.1 | 25.298 | BC05 | 0 | 0.1 | 1.033 | BC05 |
| 3 | BC05 to BC06 | 0 | 0.1 | 33.528 | BC06 | 0 | 0.1 | 1.036 | BC06 |
| 4 | BC06 to BC07 | 0 | 0.1 | 59.436 | BC07 | 0 | 0.1 | 1.838 | BC07 |
| 5 | BC07 to BC09 | 0 | 0.1 | 56.726 | BC09 | 0 | 0.1 | 2.344 | BC09 |

| DATA TYPE 10 - DISPERSIVE HYDRAULIC COEFFICIENTS | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Reach** | **Tidal Range** | **a** | **Data Source** | **b** | **c** | **d** | **Data Source** |
| 1 | 1.0 | 1.5 | Calibration | 0.833 | 0.0 | 1.0 | Equation 3 was used to take into account advective and tidal transport. The exponents used (b,c,d) take into account advective and tidal transport in the manner used by Tracor and Qual2E. |
| 2 | 1.0 | 1.5 | Calibration | 0.833 | 0.0 | 1.0 | Equation 3 was used to take into account advective and tidal transport. The exponents used (b,c,d) take into account advective and tidal transport in the manner used by Tracor and Qual2E. |
| 3 | 1.0 | 1.5 | Calibration | 0.833 | 0.0 | 1.0 | Equation 3 was used to take into account advective and tidal transport. The exponents used (b,c,d) take into account advective and tidal transport in the manner used by Tracor and Qual2E. |
| 4 | 1.0 | 1.5 | Calibration | 0.833 | 0.0 | 1.0 | Equation 3 was used to take into account advective and tidal transport. The exponents used (b,c,d) take into account advective and tidal transport in the manner used by Tracor and Qual2E. |
| 5 | 1.0 | 1.5 | Calibration | 0.833 | 0.0 | 1.0 | Equation 3 was used to take into account advective and tidal transport. The exponents used (b,c,d) take into account advective and tidal transport in the manner used by Tracor and Qual2E. |

| | DATA TYPE 11 - INITIAL CONDITIONS | | | | | | |
|---|---|---|---|---|---|---|---|
| **Reach** | **Name** | **Temp, deg C** | **Sal, ppt** | **DO, mg/l** | **Data Source** | **Chlorophyll a** | **Data Source** |
| 1 | BC01 to BC03 | 27.53 | 0.71 | 3.33 | AVG BC01,02,03 Continuous Monitoring Averages | 60.00 | Calibration |
| 2 | BC03 to BC05 | 27.54 | 1.21 | 1.23 | BC03 Continuous Monitoring Averages | 36.20 | BC03 |
| 3 | BC05 to BC06 | 28.30 | 3.47 | 3.94 | BC06 Continuous Monitoring Averages | 87.70 | BC05 |
| 4 | BC06 to BC07 | 28.33 | 3.72 | 4.15 | AVG BC06,07 Continuous Monitoring Averages | 68.50 | BC07 |
| 5 | BC07 to BC09 | 28.59 | 4.24 | 4.75 | AVG BC07,09 Continuous Monitoring Averages | 68.50 | BC07 |

| | | DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS | | | |
|---|---|---|---|---|---|
| **REACH** | **NAME** | **K2 OPT** | **Data Source** | **BKGRND SOD, gmO2/m2/day at 20 deg C** | **Data Source** |
| 1 | BC01 to BC03 | 11 | Texas Equation | 17.50 | Calibration |
| 2 | BC03 to BC05 | 11 | Texas Equation | 1.00 | Calibration |
| 3 | BC05 to BC06 | 11 | Texas Equation | 1.00 | Calibration |
| 4 | BC06 to BC07 | 11 | Texas Equation | 3.50 | Calibration |
| 5 | BC07 to BC09 | 11 | Texas Equation | 5.00 | Calibration |

| | | DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS | | | |
|---|---|---|---|---|---|
| **REACH** | **NAME** | **Aerobic BOD1 Dec Rate (1/day)** | **Data Source** | **BOD1 SETT RATE (1/day)** | **Data Source** |
| 1 | BC01 to BC03 | 0.0780 | Average(BC01, BC02, BC03) | 0.400 | Calibration |
| 2 | BC03 to BC05 | 0.0699 | Average(BC03, BC05) | 0.400 | Calibration |
| 3 | BC05 to BC06 | 0.0762 | BC05 | 0.400 | Calibration |
| 4 | BC06 to BC07 | 0.0671 | BC07 | 0.400 | Calibration |
| 5 | BC07 to BC09 | 0.0661 | Average(BC07, BC09) | 0.400 | Calibration |

| DATA TYPE 13 - NITROGEN AND PHOSPHORUS COEFFICIENTS | | | | | |
|---|---|---|---|---|---|
| **Reach** | **Name** | **NBOD decay rate, 1/day** | **Data Source** | **NBOD settling rate, 1/day** | **Data Source** |
| 1 | BC01 to BC03 | 0.1081 | Average(BC01, BC02, BC03) | 0.05 | Calibration |
| 2 | BC03 to BC05 | 0.1104 | Average(BC03, BC05) | 0.05 | Calibration |
| 3 | BC05 to BC06 | 0.1127 | BC05 | 0.05 | Calibration |
| 4 | BC06 to BC07 | 0.0875 | BC07 | 0.05 | Calibration |
| 5 | BC07 to BC09 | 0.0878 | Average(BC07, BC09) | 0.05 | Calibration |

**DATA TYPES 16 - INCREMENTAL DATA FOR TEMP AND CONS**

| Reach | Reach Name | Incr. Ouflow, m3 | Incr. Inflow, m3 | Data Source |
|---|---|---|---|---|
| 1 | BC01 to BC03 | | 1.7059 | BC03 Estimated Flow - BC01 Estimated Flow |
| 2 | BC03 to BC05 | | 0.4437 | 1/2 (BC06 Estimated Flow - BC03 Estimated Flow) |
| 3 | BC05 to BC06 | | 0.4437 | 1/2 (BC06 Estimated Flow - BC03 Estimated Flow) |
| 4 | BC06 to BC07 | | 12.9614 | BC07 Estimated Flow - BC06 Estimated Flow |
| 5 | BC07 to BC09 | | 4.1272 | BC09 Estimated Flow - BC07 Estimated Flow |

| DATA TYPES 16 - INCREMENTAL DATA FOR TEMP AND CONS | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Reach** | **Reach Name** | **Temp, °C** | **Salinity ppt** | **Data Source** | **Chl** | **Cond** | **Data Source** |
| 1 | BC01 to BC03 | 27.53 | 0.7 | AVG BC01,02,03 Continuous Monitoring Averages | 1000 | 2800 | Calibration |
| 2 | BC03 to BC05 | 27.54 | 1.2 | BC03 Continuous Monitoring Averages | 2000 | 3800 | Calibration |
| 3 | BC05 to BC06 | 28.3 | 3.5 | BC06 Continuous Monitoring Averages | 2600 | 8800 | Calibration |
| 4 | BC06 to BC07 | 28.33 | 3.7 | AVG BC06,07 Continuous Monitoring Averages | 2600 | 8800 | Calibration |
| 5 | BC07 to BC09 | 28.59 | 4.2 | AVG BC07,09 Continuous Monitoring Averages | 2600 | 8800 | Calibration |

| DATA TYPES 17 - INCREMENTAL DATA FOR DO, BOD, AND NITROGEN | | | | | |
|---|---|---|---|---|---|
| **Reach** | **Reach Name** | **DO, mg/l** | **CBOD, mg/l** | **NBOD, mg/l** | **Data Source** |
| 1 | BC01 to BC03 | 3.33 | 9.9965 | 2.5147 | AVG BC01,02,03 |
| 2 | BC03 to BC05 | 3.33 | 13.9415 | 2.8557 | AVG BC01,02,03 |
| 3 | BC05 to BC06 | 3.94 | 16.7325 | 3.5311 | BC06 |
| 4 | BC06 to BC07 | 4.15 | 15.5489 | 3.5719 | AVG BC06,07 |
| 5 | BC07 to BC09 | 4.75 | 15.1520 | 3.5286 | AVG BC07,09 |

**DATA TYPE 18 - INCREMENTAL DATA FOR CHL A**

| Reach | Reach Name | Chlorophyll a | Data Source |
|---|---|---|---|
| 1 | BC01 to BC03 | 60 | Calibration |
| 2 | BC03 to BC05 | 36.2 | BC03 |
| 3 | BC05 to BC06 | 87.7 | BC05 |
| 4 | BC06 to BC07 | 68.5 | BC07 |
| 5 | BC07 to BC09 | 68.5 | BC07 |

**DATA TYPE 19 - NONPOINT SOURCES**

| Reach | Reach Name | Length of Reach, km | UCBOD, kg/day | NBOD, kg/day | Data Source |
|---|---|---|---|---|---|
| 1 | BC01 to BC03 | 3.00 | 1200.00 | 90.00 | Calibration |
| 2 | BC03 to BC05 | 2.40 | 3200.00 | 400.00 | Calibration |
| 3 | BC05 to BC06 | 2.40 | 1000.00 | 100.00 | Calibration |
| 4 | BC06 to BC07 | 2.30 | 1500.00 | 150.00 | Calibration |
| 5 | BC07 to BC09 | 4.60 | 1500.00 | 150.00 | Calibration |

**DATA TYPES 20 - HEADWATER DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES**

| Headwater Name | Element No. | Logical Unit Number | Headwater Flow, cms | Temp, deg C | Salinity | Chlorides | Conductivity | Data S |
|---|---|---|---|---|---|---|---|---|
| Headwater 1 | 1 | 1 | 3.4604 | 27.93 | 0.2 | 137 | 865.30 | BC01 Continuous M Salinity, Lab Data Condu |

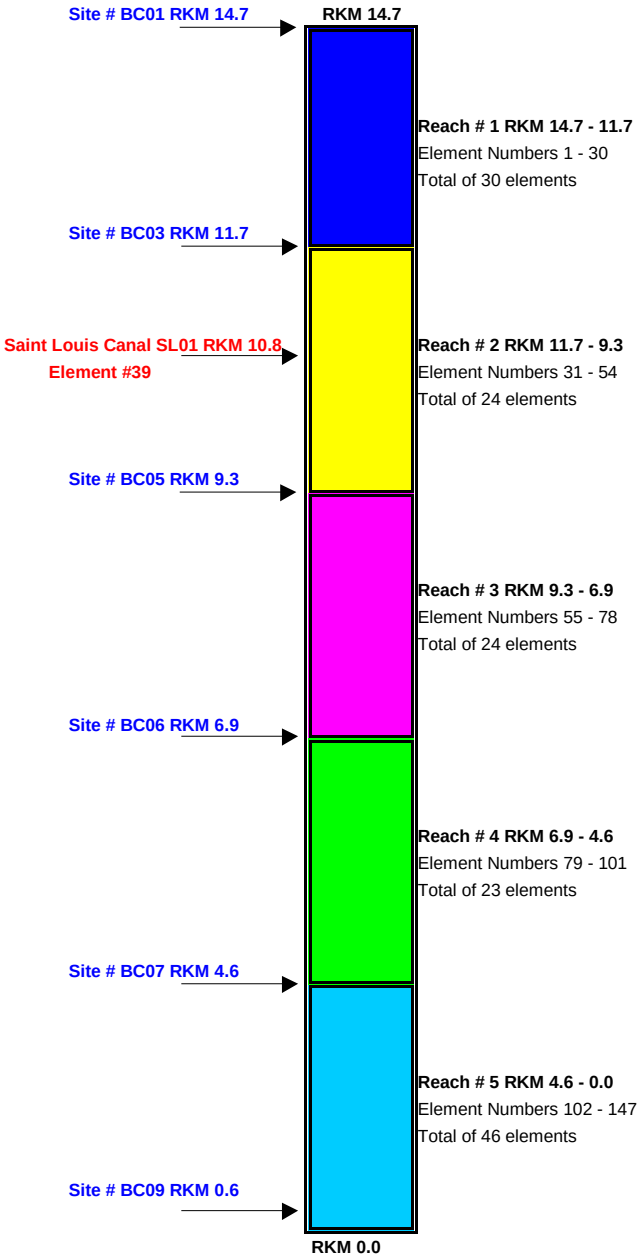
| DATA TYPES 21 - HEADWATER DATA FOR DO, BOD, AND NITROGEN | | | | |
|---|---|---|---|---|
| **Headwater Name** | **Dissolved Oxygen, mg/L** | **CBOD, mg/l** | **NBOD, mg/l** | **Data Source** |
| Headwater 1 | 5.24 | 8.9473 | 2.7039 | BC01 Continuous Monitoring - DO<br>Lab Data - CBOD AND NBOD |

| DATA TYPES 27 - LOWER BOUNDARY CONDITIONS | | | |
|---|---|---|---|
| **Parameter** | **Value** | **Units** | **Data Source** |
| TEMPERATURE | 28.8300 | $^{O}C$ | BC09 Continous Monitoring |
| SALINITY | 4.5000 | ppt | BC09 Continous Monitoring |
| CHLORIDES | 2274.0000 | ppm | BC09 Lab Data |
| CONDUCTIVITY | 7601.0000 | umhos/cm | BC09 Insitu |
| DISSOLVED OXYGEN | 5.1400 | mg/L | BC09 Continous Monitoring |
| CBOD | 14.7550 | mg/L | BC09 Lab Data |
| CHLOROPHYLL A | 105.0000 | ug/L | BC09 Lab Data |
| NBOD | 3.4853 | mg/L | BC09 Lab Data |

# Appendix C - Calibration Model Development

# Appendix C1 – Vector Diagram

# Bayou Chauvin Model Layout
# Subsegment 120507



# Appendix C2 – Reach Setup

| **Bayou Chauvin 120507** | | | | | Modeled Length | Element Length | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Reach # | Description | Headwater Yes/No | Starting modeled Kilometer | Ending modeled Kilometer | kilometers | kilometers | Element Count | Cumulative Elements | Begin Element # | End Element # |
| 1 | Woodlawn Bridge to St. Louis Canal | Yes | 14.7 | 11.7 | 3.00 | 0.100 | 30 | 30 | 1 | 30 |
| 2 | St. Louis Canal to Unnamed Canal | No | 11.7 | 9.3 | 2.40 | 0.100 | 24 | 24 | 31 | 54 |
| 3 | Unnamed Canal to top of dredged section | No | 9.3 | 6.9 | 2.40 | 0.100 | 24 | 54 | 55 | 78 |
| 4 | Top of dredged section to Pipeline Canal | No | 6.9 | 4.6 | 2.30 | 0.100 | 23 | 77 | 79 | 101 |
| 5 | Pipeline Canal to Lake Boudreaux | No | 4.6 | 0.0 | 4.60 | 0.100 | 46 | 123 | 102 | 147 |

# Appendix C3 – Calibration Loading

Bayou Chauvin Watershed TMDL

Subsegment 120507

Originated: September 29, 2006

Revised: May 11, 2007

## Calibration Model Non-Point Load Equivalent Calculations:

**Modeled stream or water body:** **BAYOU CHAUVIN (SUBSEGMENT 120507)**

Shaded cells are input values for calculations. If modeling the nitrogen series, be sure that column "I" is clear of all values.

| REACH NUMBER & DESCRIPTION | Calibration Model Reach Length | Calibration Model Average Reach Width | Calibration Model UCBOD1 Nonpoint loading | Calibration Model Total UCBOD Nonpoint loading | Calibration Model UNBOD Nonpoint loading | Calibration Model Total UNBOD Nonpoint loading | Calibration Model Total UCBOD Nonpoint loading | Calibration Model Total UNBOD Nonpoint loading | Calibration Model SOD | Calibration Model TOTAL Benthic Load |
|---|---|---|---|---|---|---|---|---|---|---|
| | km | meters | kg $O_2$/day | kg $O_2$/day | kg $O_2$/day | kg $O_2$/day | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] |
| REACH 1 - BC01 TO BC03 | 3.00 | 25.51 | 1200.00 | 1200.00 | 90.00 | 90.00 | 15.679 | 1.176 | 17.50 | **34.35** |
| REACH 2 - BC03 TO BC05 | 2.40 | 25.30 | 3200.00 | 3200.00 | 400.00 | 400.00 | 52.705 | 6.588 | 1.00 | **60.29** |
| REACH 3 - BC05 TO BC06 | 2.40 | 33.53 | 1000.00 | 1000.00 | 100.00 | 100.00 | 12.427 | 1.243 | 1.00 | **14.67** |
| REACH 4 - BC06 TO BC07 | 2.30 | 59.44 | 1500.00 | 1500.00 | 150.00 | 150.00 | 10.973 | 1.097 | 3.50 | **15.57** |
| REACH 5 - BC07 TO BC09 | 4.60 | 56.73 | 1500.00 | 1500.00 | 150.00 | 150.00 | 5.748 | 0.575 | 5.00 | **11.32** |
| | | | | | | | | | | |

# Appendix D – Projection Model Input and Output Data Sets

# Appendix D1 –Summer Output Graphs and Input, Overlay, and Output Files

Bayou Chauvin Watershed TMDL

Subsegment 120507

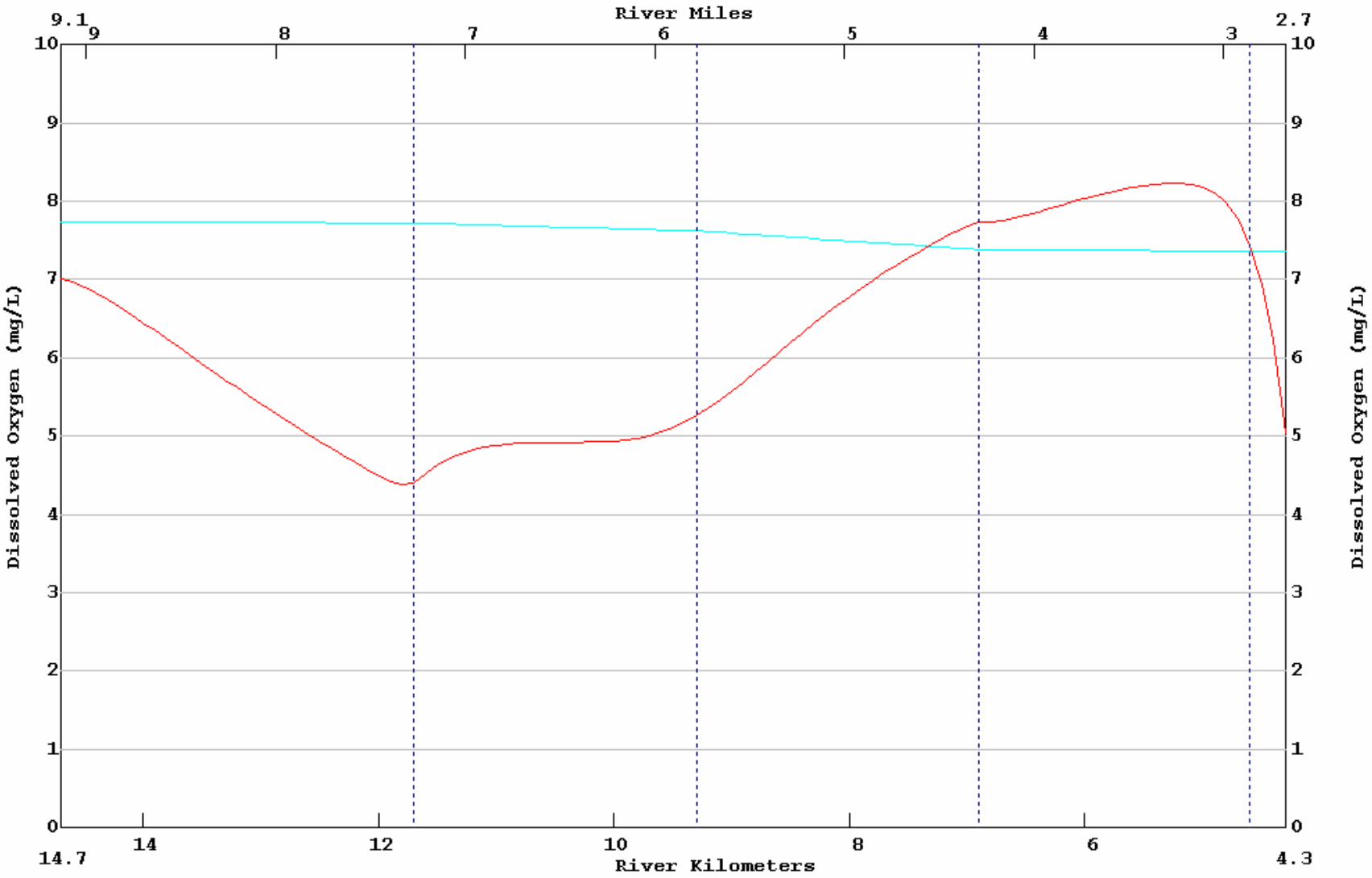
Originated: September 29, 2006

Revised: May 11, 2007

LA-QUAL Version 8.00 Run at 10:17 on 09/12/2006 File O:\Personal_Folders\Karen\Chauvin\TMDL\Input Files\Chauvin Summer

BAYOU CHAUVIN 120507 SUMMER PROJECTION 43% REDUCTION min= 4.39 max= 8.23

BAYOU CHAUVIN 120507 WATERSHED MODEL



# BAYOU CHAUVIN 120507 SUMMER PROJECTION INPUT DATA SET

```
CNTROL01     BAYOU CHAUVIN 120507 WATERSHED MODEL
CNTROL02     BAYOU CHAUVIN 120507 SUMMER PROJECTION 43% REDUCTION
CNTROL04 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CHLORIDES                  IN MG/L
MODOPT04 YES CONSERVATIVE MATERIAL II = CONDUCTIVITY               IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07  NO BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT10  NO PHOSPHORUS
MODOPT11  NO CHLOROPHYLL A
MODOPT12  NO MACROPHYTES
MODOPT13  NO COLIFORM
ENDATA02
PROGRAM  KL MINIMUM                        =     0.7
PROGRAM  INHIBITION CONTROL VALUE          =     3.
PROGRAM  K2 MAXIMUM                        =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD      =     2.
PROGRAM  SETTLING RATE UNITS               =     2.
PROGRAM  TIDE HEIGHT                       =     0.18
PROGRAM  SOD MAXIMUM RATE                  =     20.0
ENDATA03
!Temperature Correction Constants
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ******** ********
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------*********----------
!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
REACH ID    1  CH   BC01 - BC03                       14.7       11.7      0.1
```

```
REACH ID    2  CH   BC03 - BC05                        11.7        9.3      0.1
REACH ID    3  CH   BC05 - BC06                         9.3        6.9      0.1
REACH ID    4  CH   BC06 - BC07                         6.9        4.6      0.1
REACH ID    5  CH   BC07 - BC09                         4.6        4.3      0.1
ENDATA08
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------*******
!                a      b       c     d      e        f
!               WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#   COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
HYDR-1      1   0.00   0.10   25.512  0.00   0.10   1.164
HYDR-1      2   0.00   0.10   25.298  0.00   0.10   1.033
HYDR-1      3   0.00   0.10   33.528  0.00   0.10   1.036
HYDR-1      4   0.00   0.10   59.436  0.00   0.10   1.838
HYDR-1      5   0.00   0.10   56.726  0.00   0.10   2.344
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
HYDR-2      1   1.0   1.500       0.8333    0.0       1.0
HYDR-2      2   1.0   1.500       0.8333    0.0       1.0
HYDR-2      3   1.0   1.500       0.8333    0.0       1.0
HYDR-2      4   1.0   1.500       0.8333    0.0       1.0
HYDR-2      5   1.0   1.500       0.8333    0.0       1.0
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO     NH3 N  NIT NIT  PHOS   CHL A   MACROPHYTES
INITIAL     1    28.40  0.71     4.00                             60.00
INITIAL     2    28.40  1.21     4.00                             36.20
INITIAL     3    28.40  3.47     4.00                             87.70
INITIAL     4    30.17  3.72     4.00                             68.50
INITIAL     5    30.17  4.24     4.00                             68.50
ENDATA11
```

```
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----******----- ******-------*******-------*******-------*******-------***
!               REA                            CBOD   CBOD
!          R#   EQ      K2             SOD    DECAY  SETT
COEF-1      1   11                   12.469   0.0780  0.40
COEF-1      2   11                    0.713   0.0699  0.40
COEF-1      3   11                    0.713   0.0762  0.40
COEF-1      4   11                    2.494   0.0671  0.40
COEF-1      5   11                    3.563   0.0661  0.40
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
COEF-2      1  0.1081   0.05
COEF-2      2  0.1104   0.05
COEF-2      3  0.1127   0.05
COEF-2      4  0.0875   0.05
COEF-2      5  0.0878   0.05
ENDATA13
ENDATA14
!Coliform and Nonconservative Cofficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
INCR-1     1              0.0787  28.40      0.7      1000    2800
INCR-1     2              0.0205  28.40      1.2      2000    3800
INCR-1     3              0.0205  28.40      3.5      2600    8800
INCR-1     4              0.5980  30.17      3.7      2600    8800
INCR-1     5              0.1904  30.17      4.2      2600    8800
ENDATA16
```

```
!Incremental Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------********---------********---------********
!          R#      DO     CBOD      NBOD    NH3 N   NIT NIT    BOD 2
INCR-2     1      4.00   7.1200    1.7900
INCR-2     2      4.00   9.9300    2.0300
INCR-2     3      4.00  11.9200    2.5200
INCR-2     4      4.00  11.0800    2.5400
INCR-2     5      4.00  10.8000    2.5100
ENDATA17
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------********---------********
!          R#   PHOSPH    CHL A   COLIFORM NONCONSERVATIVE
INCR-3     1              60.0
INCR-3     2              36.2
INCR-3     3              87.7
INCR-3     4              68.5
INCR-3     5              68.5
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------********---------********---------********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1     855     64.125
NONPOINT    2    2280    285.00
NONPOINT    3     712.5   71.25
NONPOINT    4    1068.75 106.875
NONPOINT    5    1068.75 106.875
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   CHLORIDE   COND
HDWTR-1     1  HEADWATER - BC01           0.1597  28.40  0.20    137.0    865.3
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
```

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********---------********
!          E#      DO      BOD 1    NBOD    NH3 N    NIT NIT  BOD 2
HDWTR-2     1      7.00   6.3700   1.9300
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR   CHL A   COLIFORM  NONCONSERVATIVE
HDWTR-3     1
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  --------------------********---------********---------********
!          E#     NAME               FLOW      TEMP   SALINITY CHLORIDE  COND
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********-----********---------*****---------********
!          E#       DO    BOD 1         NBOD    NH3 N          NIT NIT  BOD 2
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
ENDATA26
LOWER BC TEMPERATURE                        =  30.17
LOWER BC SALINITY                           =   4.51
LOWER BC CONSERVATIVE MATERIAL I            =2274.0
LOWER BC CONSERVATIVE MATERIAL II           =7601.0
LOWER BC DISSOLVED OXYGEN                   =   4.00
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =  14.755
LOWER BC CHLOROPHYLL A                      = 105.0
LOWER BC NBOD                               =   3.4853
ENDATA27
```

```
!Dam Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ******************** ** ******** ******** ********
ENDATA28
ENDATA29
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =  05                        INCREMENT = 0.1
PLOT RCH  1  2  3  4  5
ENDATA30
ENDATA31
```

# BAYOU CHAUVIN 120507 SUMMER PROJECTION OUTPUT DATA SET

```
LA-QUAL Version 8.00
Louisiana Department of Environmental Quality

Input file is O:\Personal_Folders\Karen\Chauvin\TMDL\Input Files\Chauvin Summer Projection43.txt
Output produced at 10:17 on 09/12/2006

$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$

CARD TYPE       CONTROL TITLES

TITLE01         BAYOU CHAUVIN 120507 WATERSHED MODEL
TITLE02         BAYOU CHAUVIN 120507 SUMMER PROJECTION 43% REDUCTION
CNTROL04  YES   METRIC UNITS
ENDATA01

$$$ DATA TYPE 2 (MODEL OPTIONS) $$$

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03  YES   CONSERVATIVE MATERIAL  I = CHLORIDES                  IN MG/L
MODOPT04  YES   CONSERVATIVE MATERIAL II = CONDUCTIVITY               IN MG/L
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07   NO   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08  YES   NBOD OXYGEN DEMAND
MODOPT10   NO   PHOSPHORUS
MODOPT11   NO   CHLOROPHYLL A
MODOPT12   NO   MACROPHYTES
MODOPT13   NO   COLIFORM
ENDATA02

$$$ DATA TYPE 3 (PROGRAM CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         KL MINIMUM                        =         0.70000 meters/day
PROGRAM         INHIBITION CONTROL VALUE          =         3.00000 (inhibit all rates but SOD)
PROGRAM         K2 MAXIMUM                        =        25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD      =         2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS               =         2.00000 (values entered as per day)
PROGRAM         TIDE HEIGHT                       =         0.18000 meters
PROGRAM         SOD MAXIMUM RATE                  =        20.00000 gm/sq m/day
ENDATA03

$$$ DATA TYPE 4 (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

 CARD TYPE     RATE CODE     THETA VALUE
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ENDATA04

$$$ CONSTANTS TYPE 5 (TEMPERATURE DATA) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05

$$$ DATA TYPE 6 (ALGAE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA06

$$$ DATA TYPE 7 (MACROPHYTE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                                      BEGIN        END     ELEM    REACH     ELEMS   BEGIN    END
CARD TYPE  REACH  ID  NAME                            REACH       REACH   LENGTH   LENGTH    PER RCH   ELEM   ELEM
                                                         km          km       km       km               NUM    NUM

REACH ID      1   CH    BC01 - BC03                   14.70  TO   11.70   0.1000     3.00      30        1     30
REACH ID      2   CH    BC03 - BC05                   11.70  TO    9.30   0.1000     2.40      24       31     54
REACH ID      3   CH    BC05 - BC06                    9.30  TO    6.90   0.1000     2.40      24       55     78
REACH ID      4   CH    BC06 - BC07                    6.90  TO    4.60   0.1000     2.30      23       79    101
REACH ID      5   CH    BC07 - BC09                    4.60  TO    4.30   0.1000     0.30       3      102    104
ENDATA08

$$$ DATA TYPE 9 (ADVECTIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID       WIDTH       WIDTH       WIDTH       DEPTH       DEPTH       DEPTH      SLOPE    MANNINGS
                            "A"         "B"         "C"         "D"         "E"         "F"                  "N"

HYDR-1        1   CH       0.000       0.100      25.512       0.000       0.100       1.164     0.00000   0.000
HYDR-1        2   CH       0.000       0.100      25.298       0.000       0.100       1.033     0.00000   0.000
HYDR-1        3   CH       0.000       0.100      33.528       0.000       0.100       1.036     0.00000   0.000
HYDR-1        4   CH       0.000       0.100      59.436       0.000       0.100       1.838     0.00000   0.000
HYDR-1        5   CH       0.000       0.100      56.726       0.000       0.100       2.344     0.00000   0.000
ENDATA09

$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID     TIDAL     DISPERSION     DISPERSION     DISPERSION     DISPERSION
                        RANGE        "A"            "B"            "C"            "D"

HYDR          1   CH      1.00        1.500          0.833          0.000          1.000
HYDR          2   CH      1.00        1.500          0.833          0.000          1.000
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HYDR          3   CH      1.00        1.500          0.833          0.000          1.000
HYDR          4   CH      1.00        1.500          0.833          0.000          1.000
HYDR          5   CH      1.00        1.500          0.833          0.000          1.000
ENDATA10

$$$ DATA TYPE 11 (INITIAL CONDITIONS) $$$

CARD TYPE      REACH  ID        TEMP     SALIN        DO       NH3     NO3+2      PHOS     CHL A     MACRO

INITIAL           1   CH       28.40      0.71      4.00      0.00      0.00      0.00     60.00      0.00
INITIAL           2   CH       28.40      1.21      4.00      0.00      0.00      0.00     36.20      0.00
INITIAL           3   CH       28.40      3.47      4.00      0.00      0.00      0.00     87.70      0.00
INITIAL           4   CH       30.17      3.72      4.00      0.00      0.00      0.00     68.50      0.00
INITIAL           5   CH       30.17      4.24      4.00      0.00      0.00      0.00     68.50      0.00
ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                                                   BOD     ANAER                          BOD2     ANAER
CARD     RCH  RCH  K2                    K2        K2        K2    BKGRND       BOD       BOD      CONV      BOD2      BOD2      BOD2      CONV      BOD2
TYPE     NUM   ID  OPT                   "A"       "B"       "C"       SOD     DECAY      SETT    TO SOD     DECAY     DECAY      SETT    TO SOD     DECAY
                                                                    g/m²/d   per day       m/d              per day   per day       m/d              per day

COEF-1     1   CH  11 TEXAS            0.000     0.000     1.000     2.469     0.078     0.400     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     2   CH  11 TEXAS            0.000     0.000     0.000     0.713     0.070     0.400     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     3   CH  11 TEXAS            0.000     0.000     0.000     0.713     0.076     0.400     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     4   CH  11 TEXAS            0.000     0.000     0.000     2.494     0.067     0.400     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     5   CH  11 TEXAS            0.000     0.000     0.000     3.563     0.066     0.400     0.000     0.000     0.000     0.000     0.000     0.000
ENDATA12

$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$

CARD TYPE      REACH  ID        NBOD      NBOD   ORGN CONV       NH3       NH3      PHOS     DENIT
                                DECA      SETT  TO NH3 SRCE     DECA      SRCE      SRCE      RATE

COEF-2           1   CH       0.108     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           2   CH       0.110     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           3   CH       0.113     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           4   CH       0.087     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           5   CH       0.088     0.050     0.000       0.000     0.000     0.000     0.000
ENDATA13

$$$ DATA TYPE 14 (ALGAE AND MACROPHYTE COEFFICIENTS) $$$

CARD TYPE      REACH  ID       SECCHI    ALGAE:     ALGAE    ALG CONV     ALGAE     ALGAE     MACRO     MACRO
                               DEPTH     CHL A      SETT     TO SOD      GROW      RESP      GROW      RESP

ENDATA14

$$$ DATA TYPE 15 (COLIFORM AND NONCONSERVATIVE COEFFICIENTS) $$$

CARD TYPE      REACH  ID    COLIFORM       NCM       NCM    NCM CONV
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                              DIE-OFF     DECAY      SETT     TO SOD

ENDATA15

$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE      REACH  ID       OUTFLOW      INFLOW      TEMP     SALIN      CM-I     CM-II   IN/DIST  OUT/DIST

INCR-1           1   CH       0.00000     0.07870     28.40      0.70   1000.00   2800.00   0.02623   0.00000
INCR-1           2   CH       0.00000     0.02050     28.40      1.20   2000.00   3800.00   0.00854   0.00000
INCR-1           3   CH       0.00000     0.02050     28.40      3.50   2600.00   8800.00   0.00854   0.00000
INCR-1           4   CH       0.00000     0.59800     30.17      3.70   2600.00   8800.00   0.26000   0.00000
INCR-1           5   CH       0.00000     0.19040     30.17      4.20   2600.00   8800.00   0.63467   0.00000
ENDATA16

$$$ DATA TYPE 17 (INCREMENTAL DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE      REACH  ID          DO       BOD      NBOD                        BOD#2

INCR-2           1   CH        4.00      7.12      1.79      0.00      0.00      0.00
INCR-2           2   CH        4.00      9.93      2.03      0.00      0.00      0.00
INCR-2           3   CH        4.00     11.92      2.52      0.00      0.00      0.00
INCR-2           4   CH        4.00     11.08      2.54      0.00      0.00      0.00
INCR-2           5   CH        4.00     10.80      2.51      0.00      0.00      0.00
ENDATA17

$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

INCR-3           1   CH        0.00     60.00      0.00      0.00
INCR-3           2   CH        0.00     36.20      0.00      0.00
INCR-3           3   CH        0.00     87.70      0.00      0.00
INCR-3           4   CH        0.00     68.50      0.00      0.00
INCR-3           5   CH        0.00     68.50      0.00      0.00
ENDATA18

$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$

CARD TYPE      REACH  ID       BOD#1     NBOD       COLI       NCM        DO     BOD#2

NONPOINT         1   CH      855.00     64.12      0.00      0.00      0.00      0.00
NONPOINT         2   CH     2280.00    285.00      0.00      0.00      0.00      0.00
NONPOINT         3   CH      712.50     71.25      0.00      0.00      0.00      0.00
NONPOINT         4   CH     1068.75    106.88      0.00      0.00      0.00      0.00
NONPOINT         5   CH     1068.75    106.88      0.00      0.00      0.00      0.00
ENDATA19

$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                  UNIT     FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
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                                                   m³/s      cfs   deg C      ppt      MG/L      MG/L

HDWTR-1           1     HEADWATER - BC01        0   0.15970    5.639   28.40     0.20   137.000   865.300
ENDATA20

$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE     ELEMENT   NAME                          DO     BOD#1     NBOD                          BOD#2
                                                    mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2           1     HEADWATER - BC01            7.00      6.37      1.93      0.00      0.00      0.00
ENDATA21

$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                         PHOS     CHL A      COLI       NCM
                                                    mg/L      mg/L      mg/L      mg/L

HDWTR-3           1     HEADWATER - BC01             0.00      0.00      0.00      0.00
ENDATA22

$$$ DATA TYPE 23 (JUNCTION DATA) $$$

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

ENDATA23

$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE  ELEMENT    RKILO  NAME                     FLOW       FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                                      m³/s        cfs      MGD   deg C      ppt      MG/L      MG/L

ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                                      % BOD                          %
CARD TYPE     ELEMENT   NAME                          DO       BOD      RMVL     NBOD               NITRIF                BOD#2
                                                    mg/L      mg/L                mg/L      mg/L                mg/L      mg/L

ENDATA25

$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                         PHOS     CHL A      COLI       NCM
                                                    mg/L      mg/L      mg/L      mg/L

ENDATA26

$$$ DATA TYPE 27 (LOWER BOUNDARY CONDITIONS) $$$
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```
CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     30.170     deg C
LOWER BC     SALINITY                          =      4.510     ppt
LOWER BC     CONSERVATIVE MATERIAL I           =    274.000     MG/L
LOWER BC     CONSERVATIVE MATERIAL II          =    601.000     MG/L
LOWER BC     DISSOLVED OXYGEN                  =      4.000     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND    =     14.755     mg/L
LOWER BC     CHLOROPHYLL A                     =    105.000     µg/L
LOWER BC     NBOD                              =      3.485     mg/L
ENDATA27

$$$ DATA TYPE 28 (DAM DATA) $$$

CARD TYPE     ELEMENT   NAME                 EQN      "A"       "B"       "H"

ENDATA28

$$$ DATA TYPE 29 (SENSITIVITY ANALYSIS DATA) $$$

CARD TYPE       PARAMETER     COL 1     COL 2     COL 3     COL 4     COL 5     COL 6     COL 7     COL 8

ENDATA29

$$$ DATA TYPE 30 (PLOT CONTROL CARDS) $$$


NUMBER OF PLOTS =  1
NUMBER OF REACHES IN PLOT 1 =   5
PLOT RCH  1  2  3  4  5
ENDATA30

$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$


ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   6 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11


FINAL REPORT    HEADWATER - BC01                                BAYOU CHAUVIN 120507 WATERSHED MODEL
REACH NO.  1      BC01 - BC03                                   BAYOU CHAUVIN 120507 SUMMER PROJECTION 43% REDUCTION
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********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HDWTR | 0.15970 | 28.40 | 0.45 | 137.00 | 865.30 | 7.00 | 6.37 | 0.00 | 6.37 | 0.00 | 1.93 | 0.00 | 0.00 | 0.00 | 60.00 | 0.00 | 0.00 |
| EACH | INCR | 0.00262 | 28.40 | 0.70 | 1000.00 | 2800.00 | 4.00 | 7.12 | 0.00 | | | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW m³/s | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME m³ | SURFACE AREA m² | X-SECT AREA m² | TIDAL PRISM m³ | TIDAL VELO m/s | DISPRSN m²/s | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14.70 | 14.60 | 0.16232 | 0.0 | 0.00547 | 0.21 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 459.22 | 0.000 | 1.500 | 0.005 |
| 2 | 14.60 | 14.50 | 0.16495 | 0.0 | 0.00555 | 0.21 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 918.43 | 0.001 | 1.500 | 0.006 |
| 3 | 14.50 | 14.40 | 0.16757 | 0.0 | 0.00564 | 0.21 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 1377.65 | 0.001 | 1.500 | 0.006 |
| 4 | 14.40 | 14.30 | 0.17019 | 0.0 | 0.00573 | 0.20 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 1836.86 | 0.001 | 1.500 | 0.006 |
| 5 | 14.30 | 14.20 | 0.17282 | 0.0 | 0.00582 | 0.20 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 2296.08 | 0.002 | 1.500 | 0.006 |
| 6 | 14.20 | 14.10 | 0.17544 | 0.0 | 0.00591 | 0.20 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 2755.30 | 0.002 | 1.500 | 0.006 |
| 7 | 14.10 | 14.00 | 0.17806 | 0.0 | 0.00600 | 0.19 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 3214.51 | 0.002 | 1.500 | 0.006 |
| 8 | 14.00 | 13.90 | 0.18069 | 0.0 | 0.00608 | 0.19 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 3673.73 | 0.003 | 1.500 | 0.006 |
| 9 | 13.90 | 13.80 | 0.18331 | 0.0 | 0.00617 | 0.19 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 4132.94 | 0.003 | 1.500 | 0.006 |
| 10 | 13.80 | 13.70 | 0.18593 | 0.0 | 0.00626 | 0.18 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 4592.16 | 0.003 | 1.500 | 0.006 |
| 11 | 13.70 | 13.60 | 0.18856 | 0.0 | 0.00635 | 0.18 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 5051.38 | 0.004 | 1.500 | 0.006 |
| 12 | 13.60 | 13.50 | 0.19118 | 0.0 | 0.00644 | 0.18 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 5510.59 | 0.004 | 1.500 | 0.006 |
| 13 | 13.50 | 13.40 | 0.19380 | 0.0 | 0.00653 | 0.18 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 5969.81 | 0.004 | 1.500 | 0.007 |
| 14 | 13.40 | 13.30 | 0.19643 | 0.0 | 0.00661 | 0.17 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 6429.02 | 0.005 | 1.500 | 0.007 |
| 15 | 13.30 | 13.20 | 0.19905 | 0.0 | 0.00670 | 0.17 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 6888.24 | 0.005 | 1.500 | 0.007 |
| 16 | 13.20 | 13.10 | 0.20167 | 0.0 | 0.00679 | 0.17 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 7347.46 | 0.005 | 1.500 | 0.007 |
| 17 | 13.10 | 13.00 | 0.20430 | 0.0 | 0.00688 | 0.17 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 7806.67 | 0.006 | 1.500 | 0.008 |
| 18 | 13.00 | 12.90 | 0.20692 | 0.0 | 0.00697 | 0.17 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 8265.89 | 0.006 | 1.500 | 0.008 |
| 19 | 12.90 | 12.80 | 0.20954 | 0.0 | 0.00706 | 0.16 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 8725.10 | 0.007 | 1.500 | 0.008 |
| 20 | 12.80 | 12.70 | 0.21217 | 0.0 | 0.00714 | 0.16 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 9184.32 | 0.007 | 1.500 | 0.008 |
| 21 | 12.70 | 12.60 | 0.21479 | 0.0 | 0.00723 | 0.16 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 9643.53 | 0.007 | 1.500 | 0.009 |
| 22 | 12.60 | 12.50 | 0.21741 | 0.0 | 0.00732 | 0.16 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 10102.75 | 0.008 | 1.500 | 0.009 |
| 23 | 12.50 | 12.40 | 0.22004 | 0.0 | 0.00741 | 0.16 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 10561.97 | 0.008 | 1.500 | 0.009 |
| 24 | 12.40 | 12.30 | 0.22266 | 0.0 | 0.00750 | 0.15 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 11021.18 | 0.008 | 1.500 | 0.010 |
| 25 | 12.30 | 12.20 | 0.22528 | 0.0 | 0.00759 | 0.15 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 11480.40 | 0.009 | 1.500 | 0.010 |
| 26 | 12.20 | 12.10 | 0.22791 | 0.0 | 0.00767 | 0.15 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 11939.61 | 0.009 | 1.500 | 0.010 |
| 27 | 12.10 | 12.00 | 0.23053 | 0.0 | 0.00776 | 0.15 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 12398.83 | 0.009 | 1.500 | 0.011 |
| 28 | 12.00 | 11.90 | 0.23315 | 0.0 | 0.00785 | 0.15 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 12858.04 | 0.010 | 1.500 | 0.011 |
| 29 | 11.90 | 11.80 | 0.23578 | 0.0 | 0.00794 | 0.15 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 13317.26 | 0.010 | 1.500 | 0.011 |
| 30 | 11.80 | 11.70 | 0.23840 | 0.0 | 0.00803 | 0.14 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 13776.48 | 0.010 | 1.500 | 0.012 |
| TOT | | | | | | 5.21 | | | 89087.90 | 76536.00 | | | | | |
| AVG | | | | | 0.0067 | | 1.16 | 25.51 | | | 29.70 | | | | |
| CUM | | | | | | 5.21 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14.600 | 7.74 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 14.500 | 7.74 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 14.400 | 7.74 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | 14.300 | 7.74 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 14.200 | 7.74 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 14.100 | 7.74 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 14.000 | 7.74 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 13.900 | 7.74 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.95 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 13.800 | 7.74 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 13.700 | 7.73 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 13.600 | 7.73 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.77 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 13.500 | 7.73 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 13.400 | 7.73 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14 | 13.300 | 7.73 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.60 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 13.200 | 7.73 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 13.100 | 7.73 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | 13.000 | 7.73 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | 12.900 | 7.73 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 12.800 | 7.73 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 12.700 | 7.73 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | 12.600 | 7.73 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.19 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 12.500 | 7.73 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 12.400 | 7.73 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 12.300 | 7.72 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 12.200 | 7.72 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.95 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 12.100 | 7.72 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | 12.000 | 7.72 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 11.900 | 7.72 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.78 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 11.800 | 7.72 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 11.700 | 7.72 | 0.70 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 4.19 | 4.19 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 0.60 | 0.08 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 2.47 | | | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* $g/m^2/d$ ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO $g/m^3$ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14.600 | 28.40 | 0.73 | 144.50 | 882.11 | 6.97 | 6.89 | 0.00 | 6.89 | 0.00 | 1.95 | 0.00 | 0.00 | 0.00 | 0.00 | 59.21 | 0.00 | 0. | 0.00 |
| 2 | 14.500 | 28.40 | 0.74 | 157.14 | 910.45 | 6.90 | 7.69 | 0.00 | 7.69 | 0.00 | 1.99 | 0.00 | 0.00 | 0.00 | 0.00 | 58.41 | 0.00 | 0. | 0.00 |
| 3 | 14.400 | 28.40 | 0.76 | 169.42 | 937.98 | 6.82 | 8.41 | 0.00 | 8.41 | 0.00 | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 57.62 | 0.00 | 0. | 0.00 |
| 4 | 14.300 | 28.40 | 0.78 | 181.36 | 964.76 | 6.74 | 9.05 | 0.00 | 9.05 | 0.00 | 2.07 | 0.00 | 0.00 | 0.00 | 0.00 | 56.83 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 14.200 | 28.40 | 0.79 | 192.98 | 990.79 | 6.64 | 9.62 | 0.00 | 9.62 | 0.00 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 | 56.03 | 0.00 | 0. | 0.00 |
| 6 | 14.100 | 28.40 | 0.81 | 204.27 | 1016.11 | 6.55 | 10.13 | 0.00 | 10.13 | 0.00 | 2.13 | 0.00 | 0.00 | 0.00 | 0.00 | 55.24 | 0.00 | 0. | 0.00 |
| 7 | 14.000 | 28.40 | 0.83 | 215.27 | 1040.76 | 6.45 | 10.59 | 0.00 | 10.59 | 0.00 | 2.16 | 0.00 | 0.00 | 0.00 | 0.00 | 54.45 | 0.00 | 0. | 0.00 |
| 8 | 13.900 | 28.40 | 0.84 | 225.97 | 1064.75 | 6.35 | 11.00 | 0.00 | 11.00 | 0.00 | 2.19 | 0.00 | 0.00 | 0.00 | 0.00 | 53.65 | 0.00 | 0. | 0.00 |
| 9 | 13.800 | 28.40 | 0.86 | 236.39 | 1088.11 | 6.24 | 11.37 | 0.00 | 11.37 | 0.00 | 2.21 | 0.00 | 0.00 | 0.00 | 0.00 | 52.86 | 0.00 | 0. | 0.00 |
| 10 | 13.700 | 28.40 | 0.88 | 246.54 | 1110.87 | 6.14 | 11.70 | 0.00 | 11.70 | 0.00 | 2.24 | 0.00 | 0.00 | 0.00 | 0.00 | 52.07 | 0.00 | 0. | 0.00 |
| 11 | 13.600 | 28.40 | 0.89 | 256.43 | 1133.04 | 6.03 | 11.99 | 0.00 | 11.99 | 0.00 | 2.26 | 0.00 | 0.00 | 0.00 | 0.00 | 51.27 | 0.00 | 0. | 0.00 |
| 12 | 13.500 | 28.40 | 0.91 | 266.07 | 1154.65 | 5.93 | 12.26 | 0.00 | 12.26 | 0.00 | 2.28 | 0.00 | 0.00 | 0.00 | 0.00 | 50.48 | 0.00 | 0. | 0.00 |
| 13 | 13.400 | 28.40 | 0.93 | 275.47 | 1175.72 | 5.82 | 12.50 | 0.00 | 12.50 | 0.00 | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 | 49.69 | 0.00 | 0. | 0.00 |
| 14 | 13.300 | 28.40 | 0.94 | 284.64 | 1196.27 | 5.72 | 12.72 | 0.00 | 12.72 | 0.00 | 2.32 | 0.00 | 0.00 | 0.00 | 0.00 | 48.89 | 0.00 | 0. | 0.00 |
| 15 | 13.200 | 28.40 | 0.96 | 293.58 | 1216.31 | 5.62 | 12.92 | 0.00 | 12.92 | 0.00 | 2.34 | 0.00 | 0.00 | 0.00 | 0.00 | 48.10 | 0.00 | 0. | 0.00 |
| 16 | 13.100 | 28.40 | 0.98 | 302.31 | 1235.87 | 5.52 | 13.10 | 0.00 | 13.10 | 0.00 | 2.36 | 0.00 | 0.00 | 0.00 | 0.00 | 47.31 | 0.00 | 0. | 0.00 |
| 17 | 13.000 | 28.40 | 0.99 | 310.83 | 1254.95 | 5.42 | 13.26 | 0.00 | 13.26 | 0.00 | 2.38 | 0.00 | 0.00 | 0.00 | 0.00 | 46.51 | 0.00 | 0. | 0.00 |
| 18 | 12.900 | 28.40 | 1.01 | 319.14 | 1273.57 | 5.32 | 13.41 | 0.00 | 13.41 | 0.00 | 2.40 | 0.00 | 0.00 | 0.00 | 0.00 | 45.72 | 0.00 | 0. | 0.00 |
| 19 | 12.800 | 28.40 | 1.03 | 327.26 | 1291.74 | 5.22 | 13.55 | 0.00 | 13.55 | 0.00 | 2.41 | 0.00 | 0.00 | 0.00 | 0.00 | 44.93 | 0.00 | 0. | 0.00 |
| 20 | 12.700 | 28.40 | 1.04 | 335.18 | 1309.46 | 5.12 | 13.68 | 0.00 | 13.68 | 0.00 | 2.43 | 0.00 | 0.00 | 0.00 | 0.00 | 44.13 | 0.00 | 0. | 0.00 |
| 21 | 12.600 | 28.40 | 1.06 | 342.92 | 1326.75 | 5.03 | 13.80 | 0.00 | 13.80 | 0.00 | 2.45 | 0.00 | 0.00 | 0.00 | 0.00 | 43.34 | 0.00 | 0. | 0.00 |
| 22 | 12.500 | 28.40 | 1.08 | 350.47 | 1343.60 | 4.93 | 13.93 | 0.00 | 13.93 | 0.00 | 2.47 | 0.00 | 0.00 | 0.00 | 0.00 | 42.55 | 0.00 | 0. | 0.00 |
| 23 | 12.400 | 28.40 | 1.09 | 357.85 | 1359.99 | 4.84 | 14.06 | 0.00 | 14.06 | 0.00 | 2.50 | 0.00 | 0.00 | 0.00 | 0.00 | 41.75 | 0.00 | 0. | 0.00 |
| 24 | 12.300 | 28.40 | 1.11 | 365.03 | 1375.90 | 4.75 | 14.22 | 0.00 | 14.22 | 0.00 | 2.53 | 0.00 | 0.00 | 0.00 | 0.00 | 40.96 | 0.00 | 0. | 0.00 |
| 25 | 12.200 | 28.40 | 1.13 | 372.03 | 1391.29 | 4.66 | 14.41 | 0.00 | 14.41 | 0.00 | 2.56 | 0.00 | 0.00 | 0.00 | 0.00 | 40.17 | 0.00 | 0. | 0.00 |
| 26 | 12.100 | 28.40 | 1.14 | 378.83 | 1406.07 | 4.57 | 14.67 | 0.00 | 14.67 | 0.00 | 2.61 | 0.00 | 0.00 | 0.00 | 0.00 | 39.37 | 0.00 | 0. | 0.00 |
| 27 | 12.000 | 28.40 | 1.16 | 385.41 | 1420.12 | 4.49 | 15.06 | 0.00 | 15.06 | 0.00 | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 | 38.58 | 0.00 | 0. | 0.00 |
| 28 | 11.900 | 28.40 | 1.18 | 391.74 | 1433.23 | 4.43 | 15.64 | 0.00 | 15.64 | 0.00 | 2.79 | 0.00 | 0.00 | 0.00 | 0.00 | 37.79 | 0.00 | 0. | 0.00 |
| 29 | 11.800 | 28.40 | 1.19 | 397.76 | 1445.07 | 4.39 | 16.57 | 0.00 | 16.57 | 0.00 | 2.96 | 0.00 | 0.00 | 0.00 | 0.00 | 36.99 | 0.00 | 0. | 0.00 |
| 30 | 11.700 | 28.40 | 1.21 | 403.38 | 1455.13 | 4.40 | 18.06 | 0.00 | 18.06 | 0.00 | 3.21 | 0.00 | 0.00 | 0.00 | 0.00 | 36.20 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER - BC01 BAYOU CHAUVIN 120507 WATERSHED MODEL
REACH NO. 2 BC03 - BC05 BAYOU CHAUVIN 120507 SUMMER PROJECTION 43% REDUCTION

********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | UPR RCH | 0.23840 | 28.40 | 1.21 | 403.38 | 1455.13 | 4.40 | 18.06 | 0.00 | 18.06 | 0.00 | 3.21 | 0.00 | 0.00 | 0.00 | 36.20 | 0.00 | 0.00 |
| EACH | INCR | 0.00085 | 28.40 | 1.20 | 2000.00 | 3800.00 | 4.00 | 9.93 | 0.00 | | | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 11.70 | 11.60 | 0.23925 | 0.0 | 0.00916 | 0.13 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 14231.84 | 0.012 | 1.500 | 0.014 |
| 32 | 11.60 | 11.50 | 0.24011 | 0.0 | 0.00919 | 0.13 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 14687.21 | 0.012 | 1.500 | 0.014 |
| 33 | 11.50 | 11.40 | 0.24096 | 0.0 | 0.00922 | 0.13 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 15142.57 | 0.013 | 1.500 | 0.014 |
| 34 | 11.40 | 11.30 | 0.24182 | 0.0 | 0.00925 | 0.13 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 15597.93 | 0.013 | 1.500 | 0.015 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.30 | 11.20 | 0.24267 | 0.0 | 0.00929 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 16053.30 | 0.014 | 1.500 | 0.015 |
| 36 | 11.20 | 11.10 | 0.24353 | 0.0 | 0.00932 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 16508.66 | 0.014 | 1.500 | 0.015 |
| 37 | 11.10 | 11.00 | 0.24438 | 0.0 | 0.00935 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 16964.03 | 0.014 | 1.500 | 0.016 |
| 38 | 11.00 | 10.90 | 0.24523 | 0.0 | 0.00938 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 17419.39 | 0.015 | 1.500 | 0.016 |
| 39 | 10.90 | 10.80 | 0.24609 | 0.0 | 0.00942 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 17874.75 | 0.015 | 1.500 | 0.016 |
| 40 | 10.80 | 10.70 | 0.24694 | 0.0 | 0.00945 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 18330.12 | 0.016 | 1.500 | 0.017 |
| 41 | 10.70 | 10.60 | 0.24780 | 0.0 | 0.00948 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 18785.48 | 0.016 | 1.500 | 0.017 |
| 42 | 10.60 | 10.50 | 0.24865 | 0.0 | 0.00951 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 19240.84 | 0.016 | 1.500 | 0.017 |
| 43 | 10.50 | 10.40 | 0.24950 | 0.0 | 0.00955 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 19696.21 | 0.017 | 1.500 | 0.018 |
| 44 | 10.40 | 10.30 | 0.25036 | 0.0 | 0.00958 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 20151.57 | 0.017 | 1.500 | 0.018 |
| 45 | 10.30 | 10.20 | 0.25121 | 0.0 | 0.00961 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 20606.93 | 0.018 | 1.500 | 0.019 |
| 46 | 10.20 | 10.10 | 0.25207 | 0.0 | 0.00965 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 21062.29 | 0.018 | 1.500 | 0.019 |
| 47 | 10.10 | 10.00 | 0.25292 | 0.0 | 0.00968 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 21517.66 | 0.018 | 1.500 | 0.019 |
| 48 | 10.00 | 9.90 | 0.25378 | 0.0 | 0.00971 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 21973.02 | 0.019 | 1.500 | 0.020 |
| 49 | 9.90 | 9.80 | 0.25463 | 0.0 | 0.00974 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 22428.38 | 0.019 | 1.500 | 0.020 |
| 50 | 9.80 | 9.70 | 0.25548 | 0.0 | 0.00978 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 22883.75 | 0.019 | 1.500 | 0.020 |
| 51 | 9.70 | 9.60 | 0.25634 | 0.0 | 0.00981 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 23339.11 | 0.020 | 1.500 | 0.021 |
| 52 | 9.60 | 9.50 | 0.25719 | 0.0 | 0.00984 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 23794.47 | 0.020 | 1.500 | 0.021 |
| 53 | 9.50 | 9.40 | 0.25805 | 0.0 | 0.00987 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 24249.84 | 0.021 | 1.500 | 0.022 |
| 54 | 9.40 | 9.30 | 0.25890 | 0.0 | 0.00991 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 24705.20 | 0.021 | 1.500 | 0.022 |
| TOT | | | | | | 2.92 | | | 62718.82 | 60715.21 | | | | | |
| AVG | | | | | 0.0095 | | 1.03 | 25.30 | | | 26.13 | | | | |
| CUM | | | | | | 8.13 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 11.600 | 7.72 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.82 | 0.00 | 0.00 | 0.00 | 0.00 |
| 32 | 11.500 | 7.71 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 33 | 11.400 | 7.71 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34 | 11.300 | 7.70 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35 | 11.200 | 7.70 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 36 | 11.100 | 7.70 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.61 | 0.00 | 0.00 | 0.00 | 0.00 |
| 37 | 11.000 | 7.69 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.77 | 0.00 | 0.00 | 0.00 | 0.00 |
| 38 | 10.900 | 7.69 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.92 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39 | 10.800 | 7.68 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40 | 10.700 | 7.68 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 41 | 10.600 | 7.68 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 42 | 10.500 | 7.67 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.56 | 0.00 | 0.00 | 0.00 | 0.00 |
| 43 | 10.400 | 7.67 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 44 | 10.300 | 7.66 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.87 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45 | 10.200 | 7.66 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 46 | 10.100 | 7.66 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.19 | 0.00 | 0.00 | 0.00 | 0.00 |
| 47 | 10.000 | 7.65 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 48 | 9.900 | 7.65 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 49 | 9.800 | 7.64 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.66 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 9.700 | 7.64 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.82 | 0.00 | 0.00 | 0.00 | 0.00 |
| 51 | 9.600 | 7.64 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 52 | 9.500 | 7.63 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 53 | 9.400 | 7.63 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 54 | 9.300 | 7.62 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 0.68 | 0.07 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.71 | | | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 11.600 | 28.40 | 1.30 | 408.78 | 1463.07 | 4.53 | 20.67 | 0.00 | 20.67 | 0.00 | 3.63 | 0.00 | 0.00 | 0.00 | 0.00 | 38.35 | 0.00 | 0. | 0.00 |
| 32 | 11.500 | 28.40 | 1.40 | 414.38 | 1471.29 | 4.64 | 23.20 | 0.00 | 23.20 | 0.00 | 4.05 | 0.00 | 0.00 | 0.00 | 0.00 | 40.49 | 0.00 | 0. | 0.00 |
| 33 | 11.400 | 28.40 | 1.49 | 419.94 | 1479.45 | 4.72 | 25.56 | 0.00 | 25.56 | 0.00 | 4.46 | 0.00 | 0.00 | 0.00 | 0.00 | 42.64 | 0.00 | 0. | 0.00 |
| 34 | 11.300 | 28.40 | 1.59 | 425.46 | 1487.56 | 4.78 | 27.76 | 0.00 | 27.76 | 0.00 | 4.86 | 0.00 | 0.00 | 0.00 | 0.00 | 44.78 | 0.00 | 0. | 0.00 |
| 35 | 11.200 | 28.40 | 1.68 | 430.94 | 1495.61 | 4.83 | 29.81 | 0.00 | 29.81 | 0.00 | 5.24 | 0.00 | 0.00 | 0.00 | 0.00 | 46.93 | 0.00 | 0. | 0.00 |
| 36 | 11.100 | 28.40 | 1.78 | 436.38 | 1503.61 | 4.86 | 31.72 | 0.00 | 31.72 | 0.00 | 5.61 | 0.00 | 0.00 | 0.00 | 0.00 | 49.08 | 0.00 | 0. | 0.00 |
| 37 | 11.000 | 28.40 | 1.87 | 441.79 | 1511.55 | 4.89 | 33.50 | 0.00 | 33.50 | 0.00 | 5.96 | 0.00 | 0.00 | 0.00 | 0.00 | 51.22 | 0.00 | 0. | 0.00 |
| 38 | 10.900 | 28.40 | 1.96 | 447.16 | 1519.44 | 4.90 | 35.16 | 0.00 | 35.16 | 0.00 | 6.31 | 0.00 | 0.00 | 0.00 | 0.00 | 53.37 | 0.00 | 0. | 0.00 |
| 39 | 10.800 | 28.40 | 2.06 | 452.49 | 1527.28 | 4.91 | 36.70 | 0.00 | 36.70 | 0.00 | 6.64 | 0.00 | 0.00 | 0.00 | 0.00 | 55.51 | 0.00 | 0. | 0.00 |
| 40 | 10.700 | 28.40 | 2.15 | 457.79 | 1535.07 | 4.92 | 38.15 | 0.00 | 38.15 | 0.00 | 6.96 | 0.00 | 0.00 | 0.00 | 0.00 | 57.66 | 0.00 | 0. | 0.00 |
| 41 | 10.600 | 28.40 | 2.25 | 463.05 | 1542.81 | 4.92 | 39.50 | 0.00 | 39.50 | 0.00 | 7.27 | 0.00 | 0.00 | 0.00 | 0.00 | 59.80 | 0.00 | 0. | 0.00 |
| 42 | 10.500 | 28.40 | 2.34 | 468.28 | 1550.52 | 4.92 | 40.75 | 0.00 | 40.75 | 0.00 | 7.57 | 0.00 | 0.00 | 0.00 | 0.00 | 61.95 | 0.00 | 0. | 0.00 |
| 43 | 10.400 | 28.40 | 2.43 | 473.48 | 1558.19 | 4.92 | 41.92 | 0.00 | 41.92 | 0.00 | 7.86 | 0.00 | 0.00 | 0.00 | 0.00 | 64.10 | 0.00 | 0. | 0.00 |
| 44 | 10.300 | 28.40 | 2.53 | 478.65 | 1565.85 | 4.92 | 43.01 | 0.00 | 43.01 | 0.00 | 8.14 | 0.00 | 0.00 | 0.00 | 0.00 | 66.24 | 0.00 | 0. | 0.00 |
| 45 | 10.200 | 28.40 | 2.62 | 483.79 | 1573.52 | 4.93 | 44.02 | 0.00 | 44.02 | 0.00 | 8.41 | 0.00 | 0.00 | 0.00 | 0.00 | 68.39 | 0.00 | 0. | 0.00 |
| 46 | 10.100 | 28.40 | 2.72 | 488.92 | 1581.22 | 4.93 | 44.96 | 0.00 | 44.96 | 0.00 | 8.67 | 0.00 | 0.00 | 0.00 | 0.00 | 70.53 | 0.00 | 0. | 0.00 |
| 47 | 10.000 | 28.40 | 2.81 | 494.04 | 1589.04 | 4.94 | 45.81 | 0.00 | 45.81 | 0.00 | 8.92 | 0.00 | 0.00 | 0.00 | 0.00 | 72.68 | 0.00 | 0. | 0.00 |
| 48 | 9.900 | 28.40 | 2.90 | 499.16 | 1597.06 | 4.96 | 46.58 | 0.00 | 46.58 | 0.00 | 9.15 | 0.00 | 0.00 | 0.00 | 0.00 | 74.82 | 0.00 | 0. | 0.00 |
| 49 | 9.800 | 28.40 | 3.00 | 504.33 | 1605.46 | 4.98 | 47.24 | 0.00 | 47.24 | 0.00 | 9.37 | 0.00 | 0.00 | 0.00 | 0.00 | 76.97 | 0.00 | 0. | 0.00 |
| 50 | 9.700 | 28.40 | 3.09 | 509.58 | 1614.51 | 5.01 | 47.76 | 0.00 | 47.76 | 0.00 | 9.56 | 0.00 | 0.00 | 0.00 | 0.00 | 79.12 | 0.00 | 0. | 0.00 |
| 51 | 9.600 | 28.40 | 3.19 | 514.99 | 1624.68 | 5.05 | 48.07 | 0.00 | 48.07 | 0.00 | 9.73 | 0.00 | 0.00 | 0.00 | 0.00 | 81.26 | 0.00 | 0. | 0.00 |
| 52 | 9.500 | 28.40 | 3.28 | 520.69 | 1636.73 | 5.11 | 48.05 | 0.00 | 48.05 | 0.00 | 9.84 | 0.00 | 0.00 | 0.00 | 0.00 | 83.41 | 0.00 | 0. | 0.00 |
| 53 | 9.400 | 28.40 | 3.38 | 526.89 | 1651.96 | 5.18 | 47.48 | 0.00 | 47.48 | 0.00 | 9.88 | 0.00 | 0.00 | 0.00 | 0.00 | 85.55 | 0.00 | 0. | 0.00 |
| 54 | 9.300 | 28.40 | 3.47 | 533.96 | 1672.49 | 5.27 | 45.99 | 0.00 | 45.99 | 0.00 | 9.79 | 0.00 | 0.00 | 0.00 | 0.00 | 87.70 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER - BC01 BAYOU CHAUVIN 120507 WATERSHED MODEL
REACH NO. 3 BC05 - BC06 BAYOU CHAUVIN 120507 SUMMER PROJECTION 43% REDUCTION

********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | UPR RCH | 0.25890 | 28.40 | 3.47 | 533.96 | 1672.49 | 5.27 | 45.99 | 0.00 | 45.99 | 0.00 | 9.79 | 0.00 | 0.00 | 0.00 | 87.70 | 0.00 | 0.00 |
| EACH | INCR | 0.00085 | 28.40 | 3.50 | 2600.00 | 8800.00 | 4.00 | 11.92 | 0.00 | | | 2.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW m³/s | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME m³ | SURFACE AREA m² | X-SECT AREA m² | TIDAL PRISM m³ | TIDAL VELO m/s | DISPRSN m²/s | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | 9.30 | 9.20 | 0.25975 | 0.0 | 0.00748 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 25308.71 | 0.016 | 1.500 | 0.017 |
| 56 | 9.20 | 9.10 | 0.26061 | 0.0 | 0.00750 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 25912.21 | 0.017 | 1.500 | 0.017 |
| 57 | 9.10 | 9.00 | 0.26146 | 0.0 | 0.00753 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 26515.71 | 0.017 | 1.500 | 0.018 |
| 58 | 9.00 | 8.90 | 0.26232 | 0.0 | 0.00755 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 27119.22 | 0.017 | 1.500 | 0.018 |
| 59 | 8.90 | 8.80 | 0.26317 | 0.0 | 0.00758 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 27722.72 | 0.018 | 1.500 | 0.018 |
| 60 | 8.80 | 8.70 | 0.26402 | 0.0 | 0.00760 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 28326.22 | 0.018 | 1.500 | 0.019 |
| 61 | 8.70 | 8.60 | 0.26488 | 0.0 | 0.00763 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 28929.73 | 0.019 | 1.500 | 0.019 |
| 62 | 8.60 | 8.50 | 0.26573 | 0.0 | 0.00765 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 29533.23 | 0.019 | 1.500 | 0.020 |
| 63 | 8.50 | 8.40 | 0.26659 | 0.0 | 0.00767 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 30136.74 | 0.019 | 1.500 | 0.020 |
| 64 | 8.40 | 8.30 | 0.26744 | 0.0 | 0.00770 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 30740.24 | 0.020 | 1.500 | 0.020 |
| 65 | 8.30 | 8.20 | 0.26830 | 0.0 | 0.00772 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 31343.74 | 0.020 | 1.500 | 0.021 |
| 66 | 8.20 | 8.10 | 0.26915 | 0.0 | 0.00775 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 31947.25 | 0.020 | 1.500 | 0.021 |
| 67 | 8.10 | 8.00 | 0.27000 | 0.0 | 0.00777 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 32550.75 | 0.021 | 1.500 | 0.021 |
| 68 | 8.00 | 7.90 | 0.27086 | 0.0 | 0.00780 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 33154.26 | 0.021 | 1.500 | 0.022 |
| 69 | 7.90 | 7.80 | 0.27171 | 0.0 | 0.00782 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 33757.76 | 0.022 | 1.500 | 0.022 |
| 70 | 7.80 | 7.70 | 0.27257 | 0.0 | 0.00785 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 34361.27 | 0.022 | 1.500 | 0.023 |
| 71 | 7.70 | 7.60 | 0.27342 | 0.0 | 0.00787 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 34964.77 | 0.022 | 1.500 | 0.023 |
| 72 | 7.60 | 7.50 | 0.27427 | 0.0 | 0.00790 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 35568.27 | 0.023 | 1.500 | 0.023 |
| 73 | 7.50 | 7.40 | 0.27513 | 0.0 | 0.00792 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 36171.78 | 0.023 | 1.500 | 0.024 |
| 74 | 7.40 | 7.30 | 0.27598 | 0.0 | 0.00795 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 36775.28 | 0.024 | 1.500 | 0.024 |
| 75 | 7.30 | 7.20 | 0.27684 | 0.0 | 0.00797 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 37378.79 | 0.024 | 1.500 | 0.024 |
| 76 | 7.20 | 7.10 | 0.27769 | 0.0 | 0.00799 | 0.14 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 37982.29 | 0.024 | 1.500 | 0.025 |
| 77 | 7.10 | 7.00 | 0.27855 | 0.0 | 0.00802 | 0.14 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 38585.79 | 0.025 | 1.500 | 0.025 |
| 78 | 7.00 | 6.90 | 0.27940 | 0.0 | 0.00804 | 0.14 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 39189.30 | 0.025 | 1.500 | 0.026 |
| TOT | | | | | | 3.58 | | | 83364.01 | 80467.20 | | | | | |
| AVG | | | | | 0.0078 | | 1.04 | 33.53 | | | 34.74 | | | | |
| CUM | | | | | | 11.71 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | 9.200 | 7.61 | 0.79 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.22 | 1.22 | 1.22 | 0.18 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.41 | 0.00 | 0.00 | 0.00 | 0.00 |
| 56 | 9.100 | 7.60 | 0.79 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.22 | 1.22 | 1.22 | 0.19 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 57 | 9.000 | 7.59 | 0.79 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.23 | 1.23 | 1.23 | 0.19 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 58 | 8.900 | 7.58 | 0.79 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.23 | 1.23 | 1.23 | 0.19 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 59 | 8.800 | 7.57 | 0.79 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | 1.24 | 1.24 | 0.19 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.26 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 60 | 8.700 | 7.56 | 0.80 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | 1.24 | 1.24 | 0.19 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61 | 8.600 | 7.55 | 0.80 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.25 | 1.25 | 1.25 | 0.19 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 62 | 8.500 | 7.54 | 0.80 | 0.12 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 1.26 | 1.26 | 1.26 | 0.20 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 63 | 8.400 | 7.53 | 0.80 | 0.12 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 1.26 | 1.26 | 1.26 | 0.20 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| 64 | 8.300 | 7.52 | 0.80 | 0.12 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 1.27 | 1.27 | 1.27 | 0.20 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65 | 8.200 | 7.51 | 0.80 | 0.12 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 1.27 | 1.27 | 1.27 | 0.20 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 66 | 8.100 | 7.50 | 0.80 | 0.12 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 1.28 | 1.28 | 1.28 | 0.20 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 67 | 8.000 | 7.49 | 0.80 | 0.12 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 1.29 | 1.29 | 1.29 | 0.20 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 68 | 7.900 | 7.48 | 0.80 | 0.12 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 1.29 | 1.29 | 1.29 | 0.21 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.90 | 0.00 | 0.00 | 0.00 | 0.00 |
| 69 | 7.800 | 7.47 | 0.80 | 0.12 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 1.30 | 1.30 | 1.30 | 0.21 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.86 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70 | 7.700 | 7.46 | 0.81 | 0.12 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 1.30 | 1.30 | 1.30 | 0.21 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.81 | 0.00 | 0.00 | 0.00 | 0.00 |
| 71 | 7.600 | 7.45 | 0.81 | 0.12 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 1.31 | 1.31 | 1.31 | 0.21 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.77 | 0.00 | 0.00 | 0.00 | 0.00 |
| 72 | 7.500 | 7.44 | 0.81 | 0.12 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.21 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.73 | 0.00 | 0.00 | 0.00 | 0.00 |
| 73 | 7.400 | 7.43 | 0.81 | 0.12 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 1.32 | 1.32 | 0.21 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 74 | 7.300 | 7.42 | 0.81 | 0.12 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 1.33 | 1.33 | 1.33 | 0.21 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.64 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75 | 7.200 | 7.41 | 0.81 | 0.12 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 1.33 | 1.33 | 1.33 | 0.22 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.60 | 0.00 | 0.00 | 0.00 | 0.00 |
| 76 | 7.100 | 7.40 | 0.82 | 0.12 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 1.34 | 1.34 | 1.34 | 0.22 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 77 | 7.000 | 7.39 | 0.82 | 0.12 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 1.35 | 1.35 | 1.35 | 0.22 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.51 | 0.00 | 0.00 | 0.00 | 0.00 |
| 78 | 6.900 | 7.38 | 0.83 | 0.12 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 1.35 | 1.35 | 1.35 | 0.22 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 0.68 | 0.08 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.71 | | | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | 9.200 | 28.47 | 3.48 | 541.28 | 1697.74 | 5.37 | 43.32 | 0.00 | 43.32 | 0.00 | 9.53 | 0.00 | 0.00 | 0.00 | 0.00 | 86.90 | 0.00 | 0. | 0.00 |
| 56 | 9.100 | 28.55 | 3.49 | 547.96 | 1720.78 | 5.46 | 41.07 | 0.00 | 41.07 | 0.00 | 9.30 | 0.00 | 0.00 | 0.00 | 0.00 | 86.10 | 0.00 | 0. | 0.00 |
| 57 | 9.000 | 28.62 | 3.50 | 554.60 | 1743.69 | 5.57 | 38.98 | 0.00 | 38.98 | 0.00 | 9.07 | 0.00 | 0.00 | 0.00 | 0.00 | 85.30 | 0.00 | 0. | 0.00 |
| 58 | 8.900 | 28.69 | 3.51 | 561.21 | 1766.50 | 5.69 | 37.06 | 0.00 | 37.06 | 0.00 | 8.86 | 0.00 | 0.00 | 0.00 | 0.00 | 84.50 | 0.00 | 0. | 0.00 |
| 59 | 8.800 | 28.77 | 3.52 | 567.80 | 1789.22 | 5.81 | 35.28 | 0.00 | 35.28 | 0.00 | 8.65 | 0.00 | 0.00 | 0.00 | 0.00 | 83.70 | 0.00 | 0. | 0.00 |
| 60 | 8.700 | 28.84 | 3.53 | 574.37 | 1811.89 | 5.94 | 33.64 | 0.00 | 33.64 | 0.00 | 8.44 | 0.00 | 0.00 | 0.00 | 0.00 | 82.90 | 0.00 | 0. | 0.00 |
| 61 | 8.600 | 28.92 | 3.54 | 580.94 | 1834.55 | 6.06 | 32.13 | 0.00 | 32.13 | 0.00 | 8.25 | 0.00 | 0.00 | 0.00 | 0.00 | 82.10 | 0.00 | 0. | 0.00 |
| 62 | 8.500 | 28.99 | 3.55 | 587.53 | 1857.28 | 6.19 | 30.73 | 0.00 | 30.73 | 0.00 | 8.05 | 0.00 | 0.00 | 0.00 | 0.00 | 81.30 | 0.00 | 0. | 0.00 |
| 63 | 8.400 | 29.06 | 3.56 | 594.16 | 1880.17 | 6.32 | 29.43 | 0.00 | 29.43 | 0.00 | 7.87 | 0.00 | 0.00 | 0.00 | 0.00 | 80.50 | 0.00 | 0. | 0.00 |
| 64 | 8.300 | 29.14 | 3.57 | 600.90 | 1903.40 | 6.44 | 28.23 | 0.00 | 28.23 | 0.00 | 7.69 | 0.00 | 0.00 | 0.00 | 0.00 | 79.70 | 0.00 | 0. | 0.00 |
| 65 | 8.200 | 29.21 | 3.58 | 607.80 | 1927.21 | 6.56 | 27.13 | 0.00 | 27.13 | 0.00 | 7.51 | 0.00 | 0.00 | 0.00 | 0.00 | 78.90 | 0.00 | 0. | 0.00 |
| 66 | 8.100 | 29.28 | 3.60 | 614.98 | 1951.98 | 6.67 | 26.10 | 0.00 | 26.10 | 0.00 | 7.35 | 0.00 | 0.00 | 0.00 | 0.00 | 78.10 | 0.00 | 0. | 0.00 |
| 67 | 8.000 | 29.36 | 3.61 | 622.60 | 1978.26 | 6.78 | 25.15 | 0.00 | 25.15 | 0.00 | 7.18 | 0.00 | 0.00 | 0.00 | 0.00 | 77.30 | 0.00 | 0. | 0.00 |
| 68 | 7.900 | 29.43 | 3.62 | 630.91 | 2006.95 | 6.89 | 24.26 | 0.00 | 24.26 | 0.00 | 7.02 | 0.00 | 0.00 | 0.00 | 0.00 | 76.50 | 0.00 | 0. | 0.00 |
| 69 | 7.800 | 29.51 | 3.63 | 640.31 | 2039.36 | 6.99 | 23.44 | 0.00 | 23.44 | 0.00 | 6.86 | 0.00 | 0.00 | 0.00 | 0.00 | 75.70 | 0.00 | 0. | 0.00 |
| 70 | 7.700 | 29.58 | 3.64 | 651.37 | 2077.54 | 7.09 | 22.66 | 0.00 | 22.66 | 0.00 | 6.70 | 0.00 | 0.00 | 0.00 | 0.00 | 74.90 | 0.00 | 0. | 0.00 |
| 71 | 7.600 | 29.65 | 3.65 | 665.02 | 2124.61 | 7.18 | 21.93 | 0.00 | 21.93 | 0.00 | 6.55 | 0.00 | 0.00 | 0.00 | 0.00 | 74.10 | 0.00 | 0. | 0.00 |
| 72 | 7.500 | 29.73 | 3.66 | 682.63 | 2185.35 | 7.28 | 21.21 | 0.00 | 21.21 | 0.00 | 6.39 | 0.00 | 0.00 | 0.00 | 0.00 | 73.30 | 0.00 | 0. | 0.00 |
| 73 | 7.400 | 29.80 | 3.67 | 706.33 | 2267.14 | 7.36 | 20.50 | 0.00 | 20.50 | 0.00 | 6.22 | 0.00 | 0.00 | 0.00 | 0.00 | 72.50 | 0.00 | 0. | 0.00 |
| 74 | 7.300 | 29.88 | 3.68 | 739.42 | 2381.26 | 7.45 | 19.75 | 0.00 | 19.75 | 0.00 | 6.03 | 0.00 | 0.00 | 0.00 | 0.00 | 71.70 | 0.00 | 0. | 0.00 |
| 75 | 7.200 | 29.95 | 3.69 | 786.92 | 2545.13 | 7.53 | 18.91 | 0.00 | 18.91 | 0.00 | 5.81 | 0.00 | 0.00 | 0.00 | 0.00 | 70.90 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 76 | 7.100 | 30.02 | 3.70 | 856.60 | 2785.53 | 7.61 | 17.90 | 0.00 | 17.90 | 0.00 | 5.54 | 0.00 | 0.00 | 0.00 | 0.00 | 70.10 | 0.00 | 0. | 0.00 |
| 77 | 7.000 | 30.10 | 3.71 | 960.46 | 3143.82 | 7.68 | 16.56 | 0.00 | 16.56 | 0.00 | 5.18 | 0.00 | 0.00 | 0.00 | 0.00 | 69.30 | 0.00 | 0. | 0.00 |
| 78 | 6.900 | 30.17 | 3.72 | 1116.99 | 3683.79 | 7.74 | 14.67 | 0.00 | 14.67 | 0.00 | 4.69 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER - BC01 BAYOU CHAUVIN 120507 WATERSHED MODEL
REACH NO. 4 BC06 - BC07 BAYOU CHAUVIN 120507 SUMMER PROJECTION 43% REDUCTION

********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | UPR RCH | 0.27940 | 30.17 | 3.72 | 1116.99 | 3683.79 | 7.74 | 14.67 | 0.00 | 14.67 | 0.00 | 4.69 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0.00 |
| EACH | INCR | 0.02600 | 30.17 | 3.70 | 2600.00 | 8800.00 | 4.00 | 11.08 | 0.00 | | | 2.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW m³/s | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME m³ | SURFACE AREA m² | X-SECT AREA m² | TIDAL PRISM m³ | TIDAL VELO m/s | DISPRSN m²/s | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | 6.90 | 6.80 | 0.30540 | 0.0 | 0.00280 | 0.41 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 40259.14 | 0.008 | 1.500 | 0.008 |
| 80 | 6.80 | 6.70 | 0.33140 | 0.0 | 0.00303 | 0.38 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 41328.99 | 0.008 | 1.500 | 0.009 |
| 81 | 6.70 | 6.60 | 0.35740 | 0.0 | 0.00327 | 0.35 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 42398.84 | 0.009 | 1.500 | 0.009 |
| 82 | 6.60 | 6.50 | 0.38340 | 0.0 | 0.00351 | 0.33 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 43468.69 | 0.009 | 1.500 | 0.009 |
| 83 | 6.50 | 6.40 | 0.40940 | 0.0 | 0.00375 | 0.31 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 44538.54 | 0.009 | 1.500 | 0.009 |
| 84 | 6.40 | 6.30 | 0.43540 | 0.0 | 0.00399 | 0.29 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 45608.38 | 0.009 | 1.500 | 0.010 |
| 85 | 6.30 | 6.20 | 0.46140 | 0.0 | 0.00422 | 0.27 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 46678.23 | 0.009 | 1.500 | 0.010 |
| 86 | 6.20 | 6.10 | 0.48740 | 0.0 | 0.00446 | 0.26 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 47748.08 | 0.010 | 1.500 | 0.010 |
| 87 | 6.10 | 6.00 | 0.51340 | 0.0 | 0.00470 | 0.25 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 48817.93 | 0.010 | 1.500 | 0.010 |
| 88 | 6.00 | 5.90 | 0.53940 | 0.0 | 0.00494 | 0.23 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 49887.77 | 0.010 | 1.500 | 0.011 |
| 89 | 5.90 | 5.80 | 0.56540 | 0.0 | 0.00518 | 0.22 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 50957.62 | 0.010 | 1.500 | 0.011 |
| 90 | 5.80 | 5.70 | 0.59140 | 0.0 | 0.00541 | 0.21 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 52027.47 | 0.011 | 1.500 | 0.011 |
| 91 | 5.70 | 5.60 | 0.61740 | 0.0 | 0.00565 | 0.20 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 53097.32 | 0.011 | 1.500 | 0.011 |
| 92 | 5.60 | 5.50 | 0.64340 | 0.0 | 0.00589 | 0.20 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 54167.16 | 0.011 | 1.500 | 0.012 |
| 93 | 5.50 | 5.40 | 0.66940 | 0.0 | 0.00613 | 0.19 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 55237.01 | 0.011 | 1.500 | 0.012 |
| 94 | 5.40 | 5.30 | 0.69540 | 0.0 | 0.00637 | 0.18 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 56306.86 | 0.011 | 1.500 | 0.012 |
| 95 | 5.30 | 5.20 | 0.72140 | 0.0 | 0.00660 | 0.18 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 57376.71 | 0.012 | 1.500 | 0.012 |
| 96 | 5.20 | 5.10 | 0.74740 | 0.0 | 0.00684 | 0.17 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 58446.55 | 0.012 | 1.500 | 0.013 |
| 97 | 5.10 | 5.00 | 0.77340 | 0.0 | 0.00708 | 0.16 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 59516.40 | 0.012 | 1.500 | 0.013 |
| 98 | 5.00 | 4.90 | 0.79940 | 0.0 | 0.00732 | 0.16 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 60586.25 | 0.012 | 1.500 | 0.013 |
| 99 | 4.90 | 4.80 | 0.82540 | 0.0 | 0.00756 | 0.15 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 61656.10 | 0.013 | 1.500 | 0.013 |
| 100 | 4.80 | 4.70 | 0.85140 | 0.0 | 0.00779 | 0.15 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 62725.95 | 0.013 | 1.500 | 0.014 |
| 101 | 4.70 | 4.60 | 0.87740 | 0.0 | 0.00803 | 0.14 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 63795.79 | 0.013 | 1.500 | 0.014 |
| TOT | | | | | | 5.41 | | | 251259.83 | 136702.83 | | | | | |
| AVG | | | | | 0.0049 | | 1.84 | 59.44 | | | 109.24 | | | | |
| CUM | | | | | | 17.12 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | 6.800 | 7.38 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80 | 6.700 | 7.38 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 81 | 6.600 | 7.38 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 82 | 6.500 | 7.38 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 83 | 6.400 | 7.38 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 84 | 6.300 | 7.38 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85 | 6.200 | 7.38 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 86 | 6.100 | 7.38 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87 | 6.000 | 7.38 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 88 | 5.900 | 7.38 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 89 | 5.800 | 7.37 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 5.700 | 7.37 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 91 | 5.600 | 7.37 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 92 | 5.500 | 7.37 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 93 | 5.400 | 7.37 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 94 | 5.300 | 7.37 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 95 | 5.200 | 7.37 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 96 | 5.100 | 7.37 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 97 | 5.000 | 7.37 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 98 | 4.900 | 7.37 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 99 | 4.800 | 7.36 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100 | 4.700 | 7.36 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 101 | 4.600 | 7.36 | 0.46 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 4.73 | 4.73 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 0.38 | 0.07 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 2.49 | | | 0.09 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | 6.800 | 30.17 | 3.74 | 1231.71 | 4079.56 | 7.74 | 13.29 | 0.00 | 13.29 | 0.00 | 4.34 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 80 | 6.700 | 30.17 | 3.77 | 1305.17 | 4332.95 | 7.76 | 12.49 | 0.00 | 12.49 | 0.00 | 4.13 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 81 | 6.600 | 30.17 | 3.79 | 1371.76 | 4562.69 | 7.79 | 11.83 | 0.00 | 11.83 | 0.00 | 3.94 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 82 | 6.500 | 30.17 | 3.81 | 1432.34 | 4771.66 | 7.82 | 11.28 | 0.00 | 11.28 | 0.00 | 3.78 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 83 | 6.400 | 30.17 | 3.83 | 1487.61 | 4962.29 | 7.86 | 10.82 | 0.00 | 10.82 | 0.00 | 3.64 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 84 | 6.300 | 30.17 | 3.86 | 1538.15 | 5136.63 | 7.91 | 10.43 | 0.00 | 10.43 | 0.00 | 3.51 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 85 | 6.200 | 30.17 | 3.88 | 1584.48 | 5296.40 | 7.95 | 10.11 | 0.00 | 10.11 | 0.00 | 3.40 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 86 | 6.100 | 30.17 | 3.90 | 1627.00 | 5443.04 | 7.99 | 9.83 | 0.00 | 9.83 | 0.00 | 3.30 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 87 | 6.000 | 30.17 | 3.92 | 1666.05 | 5577.69 | 8.03 | 9.60 | 0.00 | 9.60 | 0.00 | 3.21 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 88 | 5.900 | 30.17 | 3.95 | 1701.90 | 5701.28 | 8.07 | 9.40 | 0.00 | 9.40 | 0.00 | 3.13 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 89 | 5.800 | 30.17 | 3.97 | 1734.74 | 5814.41 | 8.11 | 9.23 | 0.00 | 9.23 | 0.00 | 3.06 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 90 | 5.700 | 30.17 | 3.99 | 1764.65 | 5917.42 | 8.14 | 9.09 | 0.00 | 9.09 | 0.00 | 3.00 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 91 | 5.600 | 30.17 | 4.01 | 1791.64 | 6010.23 | 8.17 | 8.98 | 0.00 | 8.98 | 0.00 | 2.94 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 92 | 5.500 | 30.17 | 4.04 | 1815.53 | 6092.27 | 8.20 | 8.88 | 0.00 | 8.88 | 0.00 | 2.89 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 93 | 5.400 | 30.17 | 4.06 | 1835.98 | 6162.25 | 8.22 | 8.81 | 0.00 | 8.81 | 0.00 | 2.85 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 94 | 5.300 | 30.17 | 4.08 | 1852.34 | 6217.87 | 8.23 | 8.77 | 0.00 | 8.77 | 0.00 | 2.81 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 95 | 5.200 | 30.17 | 4.10 | 1863.51 | 6255.23 | 8.23 | 8.76 | 0.00 | 8.76 | 0.00 | 2.79 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 96 | 5.100 | 30.17 | 4.13 | 1867.75 | 6268.07 | 8.22 | 8.80 | 0.00 | 8.80 | 0.00 | 2.77 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 97 | 5.000 | 30.17 | 4.15 | 1862.22 | 6246.39 | 8.18 | 8.92 | 0.00 | 8.92 | 0.00 | 2.76 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 98 | 4.900 | 30.17 | 4.17 | 1842.48 | 6174.31 | 8.11 | 9.15 | 0.00 | 9.15 | 0.00 | 2.77 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 99 | 4.800 | 30.17 | 4.19 | 1801.39 | 6026.54 | 7.99 | 9.56 | 0.00 | 9.56 | 0.00 | 2.80 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 100 | 4.700 | 30.17 | 4.22 | 1727.59 | 5762.68 | 7.78 | 10.27 | 0.00 | 10.27 | 0.00 | 2.87 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 101 | 4.600 | 30.17 | 4.24 | 1602.77 | 5317.72 | 7.44 | 11.49 | 0.00 | 11.49 | 0.00 | 3.00 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER - BC01 BAYOU CHAUVIN 120507 WATERSHED MODEL
REACH NO. 5 BC07 - BC09 BAYOU CHAUVIN 120507 SUMMER PROJECTION 43% REDUCTION

********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | UPR RCH | 0.87740 | 30.17 | 4.24 | 1602.77 | 5317.72 | 7.44 | 11.49 | 0.00 | 11.49 | 0.00 | 3.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0.00 |
| EACH | INCR | 0.06347 | 30.17 | 4.20 | 2600.00 | 8800.00 | 4.00 | 10.80 | 0.00 | | | 2.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW m³/s | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME m³ | SURFACE AREA m² | X-SECT AREA m² | TIDAL PRISM m³ | TIDAL VELO m/s | DISPRSN m²/s | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | 4.60 | 4.50 | 0.94087 | 0.0 | 0.00708 | 0.16 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 64816.86 | 0.011 | 1.500 | 0.012 |
| 103 | 4.50 | 4.40 | 1.00433 | 0.0 | 0.00755 | 0.15 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 65837.93 | 0.011 | 1.500 | 0.012 |
| 104 | 4.40 | 4.30 | 1.06780 | 0.0 | 0.00803 | 0.14 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 66859.00 | 0.011 | 1.500 | 0.012 |
| TOT | | | | | | 0.46 | | | 39889.73 | 17017.80 | | | | | |
| AVG | | | | | 0.0075 | | 2.34 | 56.73 | | | 132.97 | | | | |
| CUM | | | | | | 17.59 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | 4.500 | 7.36 | 0.36 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 6.76 | 6.76 | 6.76 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.43 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 103 | 4.400 | 7.36 | 0.36 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 6.76 | 6.76 | 6.76 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 7.41 | 0.00 | 0.00 | 0.00 | 0.00 |
| 104 | 4.300 | 7.36 | 0.36 | 0.11 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 6.76 | 6.76 | 6.76 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 8.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 0.30 | 0.07 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 3.56 | | | 0.09 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | 4.500 | 30.17 | 4.24 | 1417.40 | 4657.96 | 6.94 | 13.36 | 0.00 | 13.36 | 0.00 | 3.21 | 0.00 | 0.00 | 0.00 | 0.00 | 80.67 | 0.00 | 0. | 0.00 |
| 103 | 4.400 | 30.17 | 4.24 | 1129.39 | 3635.00 | 6.23 | 14.54 | 0.00 | 14.54 | 0.00 | 3.36 | 0.00 | 0.00 | 0.00 | 0.00 | 92.83 | 0.00 | 0. | 0.00 |
| 104 | 4.300 | 30.17 | 4.24 | 658.72 | 1965.12 | 5.04 | 15.01 | 0.00 | 15.01 | 0.00 | 3.47 | 0.00 | 0.00 | 0.00 | 0.00 | 105.00 | 0.00 | 0. | 0.00 |

STREAM SUMMARY
HEADWATER - BC01

BAYOU CHAUVIN 120507 WATERSHED MODEL
BAYOU CHAUVIN 120507 SUMMER PROJECTION 43% REDUCTION

| | | | | | |
|---|---|---|---|---|---|
| TRAVEL TIME | = | 17.59 | DAYS | | |
| MAXIMUM EFFLUENT | = | 0.00 | PERCENT | | |
| FLOW | = | 0.16232 | TO | 1.06780 | m³/s |
| DISPERSION | = | 1.5000 | TO | 1.5000 | m²/s |
| VELOCITY | = | 0.00280 | TO | 0.00991 | m/s |
| DEPTH | = | 1.03 | TO | 2.34 | m |
| WIDTH | = | 25.30 | TO | 59.44 | m |
| BOD DECAY | = | 0.10 | TO | 0.12 | per day |
| NH3 DECAY | = | 0.00 | TO | 0.00 | per day |
| SOD | = | 1.21 | TO | 6.76 | g/m²/d |
| NH3 SOURCE | = | 0.00 | TO | 0.00 | g/m²/d |
| REAERATION | = | 0.36 | TO | 0.83 | per day |
| BOD SETTLING | = | 0.49 | TO | 0.51 | per day |
| NBOD DECAY | = | 0.16 | TO | 0.22 | per day |
| NBOD SETTLING | = | 0.06 | TO | 0.06 | per day |
| TEMPERATURE | = | 28.40 | TO | 30.17 | deg C |
| DISSOLVED OXYGEN | = | 4.39 | TO | 8.23 | mg/L |

.....EXECUTION COMPLETED

# Appendix D2 – Summer Justifications

| DATA TYPE 3 - PROGRAM CONSTANTS | | | |
|---|---|---|---|
| **CONSTANT NAME** | **VALUE** | **UNITS** | **DATA SOURCE** |
| KL MINIMUM | 0.7 | m/day | The minimum KL of 2.3 ft/day converted to 0.70 m/day. |
| INHIBITION CONTROL VALUE | 3 | | The water column dissolved oxygen demand is assumed to come primarily from facultative bacteria under anoxic conditions and SOD is not influenced by modeled dissolved oxygen levels in the upper water column. |
| K2 MAXIMUM | 25 | 1/day at 20 deg C | EPA Policy in the absence of a measured value. |
| HYDRAULIC CALCULATION METHOD | 2 | | The low slopes in this waterbody cause a substantial amount of water to be present during critical flow conditions. This method allows the model to predict a more accurate depth and width during low flow conditions. |
| SETTLING RATE UNITS | 2 | | By making the settling rate a velocity the rate becomes dependent upon the depth. |
| TIDE HEIGHT | 0.18 | m | Estimated tidal height for critical tidal flow. =0.6 / 3 per regs |
| SOD MAXIMUM RATE | 20 | $gm/m^2$-day | The maximum SOD allowable regardless of the quantity of oxygen demanding materials settled. |
| DISPERSION EQUATION | 3 | | Equation used to account for composite tidal and advective flows. |

| DATA TYPE 8 - REACH IDENTIFICATION DATA | | | | | | |
|---|---|---|---|---|---|---|
| **Reach** | **ID** | **Name** | **Upstream River Kilometer** | **Downstream River Kilometer** | **Element Length, meters** | **Data Source** |
| 1 | CH | BC01 to BC03 | 14.70 | 11.70 | 100.0000 | ARC MAP Calc. |
| 2 | CH | BC03 to BC05 | 11.70 | 9.30 | 100.0000 | ARC MAP Calc. |
| 3 | CH | BC05 to BC06 | 9.30 | 6.90 | 100.0000 | ARC MAP Calc. |
| 4 | CH | BC06 to BC07 | 6.90 | 4.60 | 100.0000 | ARC MAP Calc. |
| 5 | CH | BC07 to BC09 | 4.60 | 0.00 | 100.0000 | ARC MAP Calc. |

| | DATA TYPE 9 - ADVECTIVE HYDRAULIC COEFFICIENTS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Reach** | **Name** | **Width Coeff. "a"** | **Width Exp. "b"** | **Width Const. "c"** | **Data Source** | **Depth Coeff. "d"** | **Depth Exp. "e"** | **Depth Const. "f"** | **Data Source** |
| 1 | BC01 to BC03 | 0 | 0.1 | 25.512 | BC03 | 0 | 0.1 | 1.164 | BC03 |
| 2 | BC03 to BC05 | 0 | 0.1 | 25.298 | BC05 | 0 | 0.1 | 1.033 | BC05 |
| 3 | BC05 to BC06 | 0 | 0.1 | 33.528 | BC06 | 0 | 0.1 | 1.036 | BC06 |
| 4 | BC06 to BC07 | 0 | 0.1 | 59.436 | BC07 | 0 | 0.1 | 1.838 | BC07 |
| 5 | BC07 to BC09 | 0 | 0.1 | 56.726 | BC09 | 0 | 0.1 | 2.344 | BC09 |

| DATA TYPE 10 - DISPERSIVE HYDRAULIC COEFFICIENTS | | | | | | |
|---|---|---|---|---|---|---|
| **Reach** | **Tidal Range** | **a** | **Data Source** | **b** | **c** | **d** |
| 1 | 1.0 | 1.5 | Calibration | 0.833 | 0.0 | 1.0 |
| 2 | 1.0 | 1.5 | Calibration | 0.833 | 0.0 | 1.0 |
| 3 | 1.0 | 1.5 | Calibration | 0.833 | 0.0 | 1.0 |
| 4 | 1.0 | 1.5 | Calibration | 0.833 | 0.0 | 1.0 |
| 5 | 1.0 | 1.5 | Calibration | 0.833 | 0.0 | 1.0 |

| | DATA TYPE 11 - INITIAL CONDITIONS | | | | | | |
|---|---|---|---|---|---|---|---|
| **Reach** | **Name** | **Temp, deg C** | **DO, mg/l** | **Sal, ppt** | **Data Source** | **Chlorophyll a** | **Data Source** |
| 1 | BC01 to BC03 | 28.40 | 4.00 | 0.71 | Temp - WQN 345 90th Percentile Summer Temp, DO - Numerical Criteria, Salinity - Average BC01,BC02, BC03 Continuous Monitor | 60.00 | Calibration |
| 2 | BC03 to BC05 | 28.40 | 4.00 | 1.21 | Temp - WQN 345 90th Percentile Summer Temp, DO - Numerical Criteria, Salinity - BC03 Continuous Monitor | 36.20 | BC03 |
| 3 | BC05 to BC06 | 28.40 | 4.00 | 3.47 | Temp - WQN 345 90th Percentile Summer Temp, DO - Numerical Criteria, Salinity - BC06 Continuous Monitor | 87.70 | BC05 |
| 4 | BC06 to BC07 | 30.17 | 4.00 | 3.72 | Temp - WQN 346 90th Percentile Summer Temp, DO - Numerical Criteria, Salinity - Average BC06, BC07 Continuous Monitor | 68.50 | BC07 |
| 5 | BC07 to BC09 | 30.17 | 4.00 | 4.24 | Temp - WQN 346 90th Percentile Summer Temp, DO - Numerical Criteria, Salinity - Average BC07, BC09 Continuous Monitor | 68.50 | BC07 |

| | | DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS | | | |
|---|---|---|---|---|---|
| **REACH** | **NAME** | **K2 OPT** | **Data Source** | **BKGRND SOD, gmO2/m2/day at 20 deg C** | **Data Source** |
| 1 | BC01 to BC03 | 11 | Texas Equation | 12.47 | 43% Reduction Man-made Loading |
| 2 | BC03 to BC05 | 11 | Texas Equation | 0.71 | 43% Reduction Man-made Loading |
| 3 | BC05 to BC06 | 11 | Texas Equation | 0.71 | 43% Reduction Man-made Loading |
| 4 | BC06 to BC07 | 11 | Texas Equation | 2.49 | 43% Reduction Man-made Loading |
| 5 | BC07 to BC09 | 11 | Texas Equation | 3.56 | 43% Reduction Man-made Loading |

| | | DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS | | | |
|---|---|---|---|---|---|
| **REACH** | **NAME** | **Aerobic BOD1 Dec Rate (1/day)** | **Data Source** | **BOD1 SETT RATE (1/day)** | **Data Source** |
| 1 | BC01 to BC03 | 0.0780 | Average(BC01, BC02, BC03) | 0.400 | Calibration |
| 2 | BC03 to BC05 | 0.0699 | Average(BC03, BC05) | 0.400 | Calibration |
| 3 | BC05 to BC06 | 0.0762 | BC05 | 0.400 | Calibration |
| 4 | BC06 to BC07 | 0.0671 | BC07 | 0.400 | Calibration |
| 5 | BC07 to BC09 | 0.0661 | Average(BC07, BC09) | 0.400 | Calibration |

| DATA TYPE 13 - NITROGEN AND PHOSPHORUS COEFFICIENTS | | | | | |
|---|---|---|---|---|---|
| **Reach** | **Name** | **NBOD decay rate, 1/day** | **Data Source** | **NBOD settling rate, 1/day** | **Data Source** |
| 1 | BC01 to BC03 | 0.1081 | Average(BC01, BC02, BC03) | 0.05 | Calibration |
| 2 | BC03 to BC05 | 0.1104 | Average(BC03, BC05) | 0.05 | Calibration |
| 3 | BC05 to BC06 | 0.1127 | BC05 | 0.05 | Calibration |
| 4 | BC06 to BC07 | 0.0875 | BC07 | 0.05 | Calibration |
| 5 | BC07 to BC09 | 0.0878 | Average(BC07, BC09) | 0.05 | Calibration |

| DATA TYPES 16 - INCREMENTAL DATA FOR TEMP AND CONS | | | | | | | DATA TYPES 16 - INCREMENTAL DATA FOR TEMP AND CONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Reach** | **Reach Name** | **Incr. Ouflow, m3** | **Incr. Inflow, m3** | **Data Source** | **Temp, °C** | **Salinity ppt** | **Data Source** | **Chl** | **Cond** | **Data Source** |
| 1 | BC01 to BC03 | | 0.0787 | BC03 Estimated Flow - BC01 Estimated Flow | 28.4 | 0.7 | Temp - WQN 345 90th Percentile Summer Temp, Salinity - Average BC01,BC02, BC03 Continuous Monitor | 1000 | 2800 | Calibration |
| 2 | BC03 to BC05 | | 0.0205 | 1/2 (BC06 Estimated Flow - BC03 Estimated Flow) | 28.4 | 1.2 | Temp - WQN 345 90th Percentile Summer Temp, Salinity - BC03 Continuous Monitor | 2000 | 3800 | Calibration |
| 3 | BC05 to BC06 | | 0.0205 | 1/2 (BC06 Estimated Flow - BC03 Estimated Flow) | 28.4 | 3.5 | Temp - WQN 345 90th Percentile Summer Temp, Salinity - BC06 Continuous Monitor | 2600 | 8800 | Calibration |
| 4 | BC06 to BC07 | | 0.5980 | BC07 Estimated Flow - BC06 Estimated Flow | 30.17 | 3.7 | Temp - WQN 346 90th Percentile Summer Temp, Salinity - Average BC06, BC07 Continuous Monitor | 2600 | 8800 | Calibration |
| 5 | BC07 to BC09 | | 0.1904 | BC09 Estimated Flow - BC07 Estimated Flow | 30.17 | 4.2 | Temp - WQN 346 90th Percentile Summer Temp, Salinity - Average BC07, BC09 Continuous Monitor | 2600 | 8800 | Calibration |

| DATA TYPES 17 - INCREMENTAL DATA FOR DO, BOD, AND NITROGEN | | | | | |
|---|---|---|---|---|---|
| **Reach** | **Reach Name** | **DO, mg/l** | **CBOD, mg/l** | **NBOD, mg/l** | **Data Source** |
| 1 | BC01 to BC03 | 4.00 | 7.12 | 1.79 | DO - Numerical Criteria, CBOD and NBOD - 43% Reduction in loading |
| 2 | BC03 to BC05 | 4.00 | 9.93 | 2.03 | DO - Numerical Criteria, CBOD and NBOD - 43% Reduction in loading |
| 3 | BC05 to BC06 | 4.00 | 11.92 | 2.52 | DO - Numerical Criteria, CBOD and NBOD - 43% Reduction in loading |
| 4 | BC06 to BC07 | 4.00 | 11.08 | 2.54 | DO - Numerical Criteria, CBOD and NBOD - 43% Reduction in loading |
| 5 | BC07 to BC09 | 4.00 | 10.8000 | 2.51 | DO - Numerical Criteria, CBOD and NBOD - 43% Reduction in loading |

| DATA TYPE 18 - INCREMENTAL DATA FOR CHL A | | | |
|---|---|---|---|
| **Reach** | **Reach Name** | **Chlorophyll a** | **Data Source** |
| 1 | BC01 to BC03 | 60 | Calibration |
| 2 | BC03 to BC05 | 36.2 | BC03 |
| 3 | BC05 to BC06 | 87.7 | BC05 |
| 4 | BC06 to BC07 | 68.5 | BC07 |
| 5 | BC07 to BC09 | 68.5 | BC07 |

| DATA TYPE 19 - NONPOINT SOURCES | | | | | |
|---|---|---|---|---|---|
| **Reach** | **Reach Name** | **Length of Reach, km** | **UCBOD, kg/day** | **NBOD, kg/day** | **Data Source** |
| 1 | BC01 to BC03 | 3.00 | 855.00 | 64.13 | 43% Reduction in loading |
| 2 | BC03 to BC05 | 2.40 | 2280.00 | 285.00 | 43% Reduction in loading |
| 3 | BC05 to BC06 | 2.40 | 712.50 | 71.25 | 43% Reduction in loading |
| 4 | BC06 to BC07 | 2.30 | 1068.75 | 106.88 | 43% Reduction in loading |
| 5 | BC07 to BC09 | 4.60 | 1068.75 | 106.88 | 43% Reduction in loading |

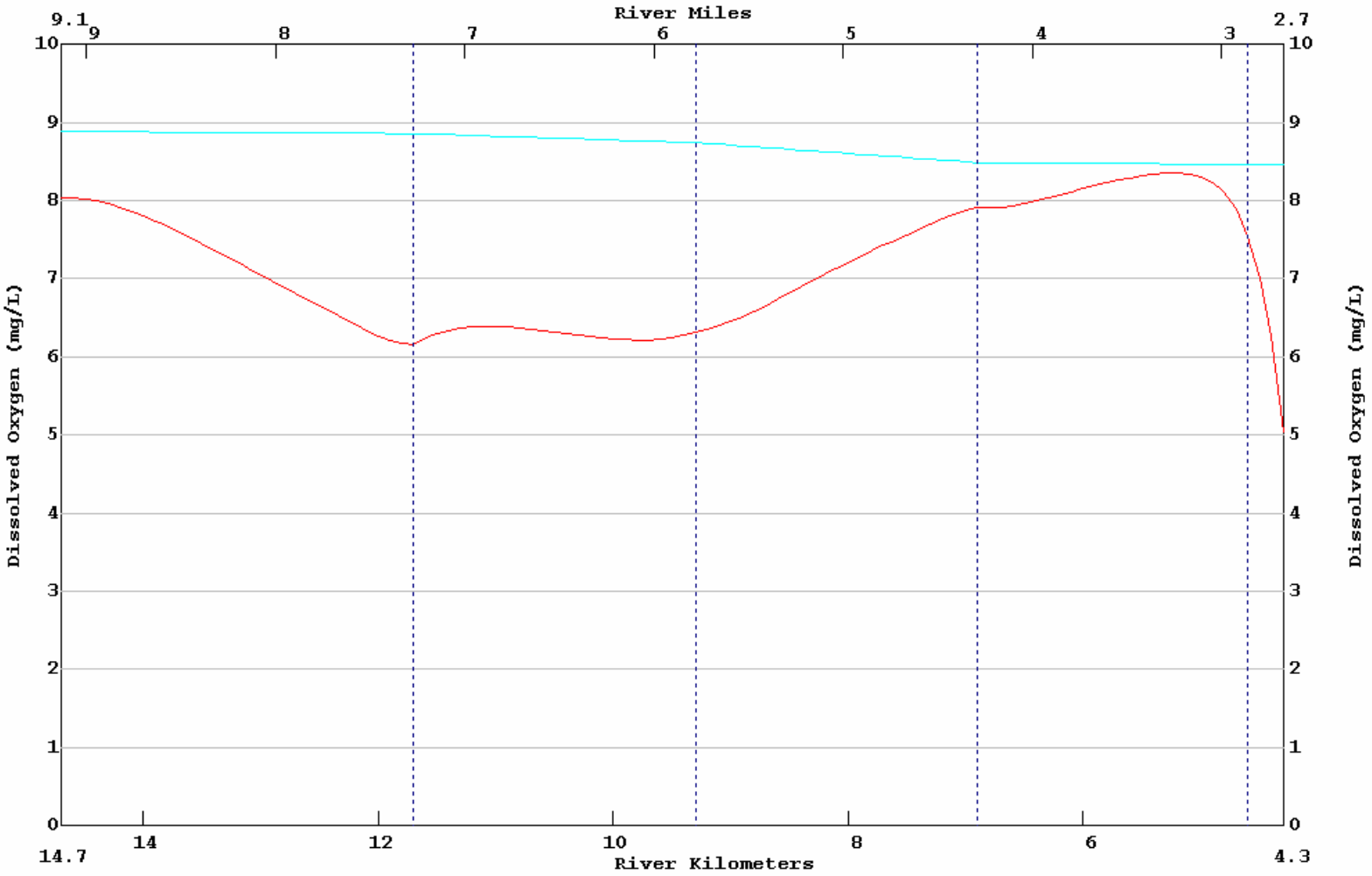
| DATA TYPES 20 - HEADWATER DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Headwater Name** | **Element No.** | **Logical Unit Number** | **Headwater Flow, cms** | **Temp, deg C** | **Salinity** | **Chlorides** | **Conductivity** | **Data Source** |
| Headwater 1 | 1 | 1 | 0.1597 | 28.4 | 0.2 | 137 | 865.30 | Flow - Estimated flow from critical tidal flow, Temp - 90th Percentile Summer Temp for WQN 345, Salinity & Conductivity - BC01 Insitu, Chlorides - BC01 Lab Data |

| DATA TYPES 21 - HEADWATER DATA FOR DO, BOD, AND NITROGEN | | | | |
|---|---|---|---|---|
| **Headwater Name** | **Dissolved Oxygen, mg/L** | **CBOD, mg/l** | **NBOD, mg/l** | **Data Source** |
| Headwater 1 | 7 | 6.37 | 1.93 | DO - Summer 90% DO Sat for WQN Site 1162, CBOD and NBOD - 75% Reduction in Man-Made Loading |

| DATA TYPES 27 - LOWER BOUNDARY CONDITIONS | | | |
|---|---|---|---|
| **Parameter** | **Value** | **Units** | **Data Source** |
| TEMPERATURE | 30.1700 | $^{O}C$ | 90th Percentile Summer Temperature for WQN Site 346 |
| SALINITY | 4.5000 | ppt | BC09 Continous Monitoring |
| CHLORIDES | 2274.0000 | ppm | BC09 Lab Data |
| CONDUCTIVITY | 7601.0000 | umhos/cm | BC09 Insitu |
| DISSOLVED OXYGEN | 4.0000 | mg/L | Numerical Criteria |
| CBOD | 14.7550 | mg/L | BC09 Lab Data |
| CHLOROPHYLL A | 105.0000 | ug/L | BC09 Lab Data |
| NBOD | 3.4853 | mg/L | BC09 Lab Data |

# Appendix D3 – Winter Output Graphs and Input, Overlay, and Output Files

LA-QUAL Version 8.00 Run at 14:49 on 09/12/2006 File O:\Personal_Folders\Karen\Chauvin\TMDL\Input Files\Chauvin Winter
BAYOU CHAUVIN 120507 WINTER PROJECTION 43% REDUCTION min= 5.05 max= 8.35
BAYOU CHAUVIN 120507 WATERSHED MODEL



## BAYOU CHAUVIN 120507 WINTER PROJECTION INPUT DATA SET

```
CNTROL01     BAYOU CHAUVIN 120507 WATERSHED MODEL
CNTROL02     BAYOU CHAUVIN 120507 WINTER PROJECTION 43% REDUCTION
CNTROL04 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CHLORIDES                  IN MG/L
MODOPT04 YES CONSERVATIVE MATERIAL II = CONDUCTIVITY               IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07  NO BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT10  NO PHOSPHORUS
MODOPT11  NO CHLOROPHYLL A
MODOPT12  NO MACROPHYTES
MODOPT13  NO COLIFORM
ENDATA02
PROGRAM  KL MINIMUM                        =     0.7
PROGRAM  INHIBITION CONTROL VALUE          =     3.
PROGRAM  K2 MAXIMUM                        =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD      =     2.
PROGRAM  SETTLING RATE UNITS               =     2.
PROGRAM  TIDE HEIGHT                       =     0.18
PROGRAM  SOD MAXIMUM RATE                  =     20.0
ENDATA03
!Temperature Correction Constants
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ******** ********
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------*********----------
```

```
!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
REACH ID    1  CH   BC01 - BC03                       14.7       11.7      0.1
REACH ID    2  CH   BC03 - BC05                       11.7        9.3      0.1
REACH ID    3  CH   BC05 - BC06                        9.3        6.9      0.1
REACH ID    4  CH   BC06 - BC07                        6.9        4.6      0.1
REACH ID    5  CH   BC07 - BC09                        4.6        4.3      0.1
ENDATA08
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------*******
!                a      b       c     d      e        f
!               WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#   COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
HYDR-1      1   0.00   0.10   25.512  0.00   0.10   1.164
HYDR-1      2   0.00   0.10   25.298  0.00   0.10   1.033
HYDR-1      3   0.00   0.10   33.528  0.00   0.10   1.036
HYDR-1      4   0.00   0.10   59.436  0.00   0.10   1.838
HYDR-1      5   0.00   0.10   56.726  0.00   0.10   2.344
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
HYDR-2      1   1.0   1.500       0.8333    0.0       1.0
HYDR-2      2   1.0   1.500       0.8333    0.0       1.0
HYDR-2      3   1.0   1.500       0.8333    0.0       1.0
HYDR-2      4   1.0   1.500       0.8333    0.0       1.0
HYDR-2      5   1.0   1.500       0.8333    0.0       1.0
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO     NH3 N  NIT NIT  PHOS   CHL A   MACROPHYTES
INITIAL     1    20.96  0.71     4.00                            60.00
INITIAL     2    20.96  1.21     4.00                            36.20
INITIAL     3    20.96  3.47     4.00                            87.70
INITIAL     4    22.42  3.72     4.00                            68.50
```

```
INITIAL     5    22.42  4.24     4.00                            68.50
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----*****----- ******-------*******-------*******-------*******-------***
!               REA                            CBOD   CBOD
!          R#   EQ      K2             SOD    DECAY  SETT
COEF-1      1   11                   12.469   0.0780  0.40
COEF-1      2   11                    0.713   0.0699  0.40
COEF-1      3   11                    0.713   0.0762  0.40
COEF-1      4   11                    2.494   0.0671  0.40
COEF-1      5   11                    3.563   0.0661  0.40
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
COEF-2      1  0.1081   0.05
COEF-2      2  0.1104   0.05
COEF-2      3  0.1127   0.05
COEF-2      4  0.0875   0.05
COEF-2      5  0.0878   0.05
ENDATA13
ENDATA14
!Coliform and Nonconservative Cofficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
INCR-1     1              0.0787  20.96      0.7      1000    2800
INCR-1     2              0.0205  20.96      1.2      2000    3800
INCR-1     3              0.0205  20.96      3.5      2600    8800
INCR-1     4              0.5980  22.42      3.7      2600    8800
```

```
INCR-1     5              0.1904  22.42      4.2      2600    8800
ENDATA16
!Incremental Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------********---------********---------********
!          R#      DO     CBOD      NBOD    NH3 N   NIT NIT    BOD 2
INCR-2     1      4.00   7.1200    1.7900
INCR-2     2      4.00   9.9300    2.0300
INCR-2     3      4.00  11.9200    2.5200
INCR-2     4      4.00  11.0800    2.5400
INCR-2     5      4.00  10.8000    2.5100
ENDATA17
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------********---------********
!          R#   PHOSPH    CHL A   COLIFORM NONCONSERVATIVE
INCR-3     1              60.0
INCR-3     2              36.2
INCR-3     3              87.7
INCR-3     4              68.5
INCR-3     5              68.5
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------********---------********---------********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1     855     64.125
NONPOINT    2    2280    285.00
NONPOINT    3     712.5   71.25
NONPOINT    4    1068.75 106.875
NONPOINT    5    1068.75 106.875
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   CHLORIDE   COND
HDWTR-1     1  HEADWATER - BC01           0.1597  20.96  0.20    137.0    865.3
```

```
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********---------********---------*********
!          E#      DO      BOD 1    NBOD    NH3 N    NIT NIT  BOD 2
HDWTR-2     1      8.03   6.3700   1.9300
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********---------********
!          E#  PHOSPHOR   CHL A   COLIFORM  NONCONSERVATIVE
HDWTR-3     1
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  --------------------********---------********---------*********
!          E#     NAME               FLOW      TEMP   SALINITY CHLORIDE  COND
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********-----********---------*****---------********
!          E#       DO    BOD 1         NBOD    NH3 N          NIT NIT  BOD 2
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********---------********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
ENDATA26
LOWER BC TEMPERATURE                        =  22.42
LOWER BC SALINITY                           =   4.51
LOWER BC CONSERVATIVE MATERIAL I            =2274.0
LOWER BC CONSERVATIVE MATERIAL II           =7601.0
LOWER BC DISSOLVED OXYGEN                   =   4.00
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =  14.755
LOWER BC CHLOROPHYLL A                      = 105.0
```

```
LOWER BC NBOD                                =   3.4853
ENDATA27
!Dam Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ******************* ** ******** ******** ********
ENDATA28
ENDATA29
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =  05                        INCREMENT = 0.1
PLOT RCH  1  2  3  4  5
ENDATA30
ENDATA31
```

# BAYOU CHAUVIN 120507 WINTER PROJECTION INPUT DATA SET

```
LA-QUAL Version 8.00
Louisiana Department of Environmental Quality

Input file is O:\Personal_Folders\Karen\Chauvin\TMDL\Input Files\Chauvin Winter Projection43.txt
Output produced at 14:49 on 09/12/2006

$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$

CARD TYPE       CONTROL TITLES

TITLE01         BAYOU CHAUVIN 120507 WATERSHED MODEL
TITLE02         BAYOU CHAUVIN 120507 WINTER PROJECTION 43% REDUCTION
CNTROL04  YES   METRIC UNITS
ENDATA01

$$$ DATA TYPE 2 (MODEL OPTIONS) $$$

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03  YES   CONSERVATIVE MATERIAL  I = CHLORIDES                  IN MG/L
MODOPT04  YES   CONSERVATIVE MATERIAL II = CONDUCTIVITY               IN MG/L
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07   NO   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08  YES   NBOD OXYGEN DEMAND
MODOPT10   NO   PHOSPHORUS
MODOPT11   NO   CHLOROPHYLL A
MODOPT12   NO   MACROPHYTES
MODOPT13   NO   COLIFORM
ENDATA02

$$$ DATA TYPE 3 (PROGRAM CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         KL MINIMUM                        =         0.70000 meters/day
PROGRAM         INHIBITION CONTROL VALUE          =         3.00000 (inhibit all rates but SOD)
PROGRAM         K2 MAXIMUM                        =        25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD      =         2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS               =         2.00000 (values entered as per day)
PROGRAM         TIDE HEIGHT                       =         0.18000 meters
PROGRAM         SOD MAXIMUM RATE                  =        20.00000 gm/sq m/day
ENDATA03

$$$ DATA TYPE 4 (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$
```

```
 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04

$$$ CONSTANTS TYPE 5 (TEMPERATURE DATA) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05

$$$ DATA TYPE 6 (ALGAE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA06

$$$ DATA TYPE 7 (MACROPHYTE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                                        BEGIN        END     ELEM    REACH     ELEMS   BEGIN    END
CARD TYPE  REACH  ID  NAME                              REACH       REACH   LENGTH   LENGTH    PER RCH   ELEM   ELEM
                                                           km          km       km       km               NUM    NUM

REACH ID      1   CH    BC01 - BC03                     14.70  TO   11.70   0.1000     3.00      30        1     30
REACH ID      2   CH    BC03 - BC05                     11.70  TO    9.30   0.1000     2.40      24       31     54
REACH ID      3   CH    BC05 - BC06                      9.30  TO    6.90   0.1000     2.40      24       55     78
REACH ID      4   CH    BC06 - BC07                      6.90  TO    4.60   0.1000     2.30      23       79    101
REACH ID      5   CH    BC07 - BC09                      4.60  TO    4.30   0.1000     0.30       3      102    104
ENDATA08

$$$ DATA TYPE 9 (ADVECTIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID       WIDTH       WIDTH       WIDTH       DEPTH       DEPTH       DEPTH      SLOPE    MANNINGS
                            "A"         "B"         "C"         "D"         "E"         "F"                  "N"

HYDR-1        1   CH       0.000       0.100      25.512       0.000       0.100       1.164     0.00000   0.000
HYDR-1        2   CH       0.000       0.100      25.298       0.000       0.100       1.033     0.00000   0.000
HYDR-1        3   CH       0.000       0.100      33.528       0.000       0.100       1.036     0.00000   0.000
HYDR-1        4   CH       0.000       0.100      59.436       0.000       0.100       1.838     0.00000   0.000
HYDR-1        5   CH       0.000       0.100      56.726       0.000       0.100       2.344     0.00000   0.000
ENDATA09

$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID     TIDAL     DISPERSION     DISPERSION     DISPERSION     DISPERSION
                        RANGE        "A"            "B"            "C"            "D"
```

```
HYDR          1   CH      1.00        1.500          0.833          0.000          1.000
HYDR          2   CH      1.00        1.500          0.833          0.000          1.000
HYDR          3   CH      1.00        1.500          0.833          0.000          1.000
HYDR          4   CH      1.00        1.500          0.833          0.000          1.000
HYDR          5   CH      1.00        1.500          0.833          0.000          1.000
ENDATA10

$$$ DATA TYPE 11 (INITIAL CONDITIONS) $$$

CARD TYPE      REACH  ID        TEMP     SALIN        DO       NH3     NO3+2      PHOS     CHL A     MACRO

INITIAL           1   CH       20.96      0.71      4.00      0.00      0.00      0.00     60.00      0.00
INITIAL           2   CH       20.96      1.21      4.00      0.00      0.00      0.00     36.20      0.00
INITIAL           3   CH       20.96      3.47      4.00      0.00      0.00      0.00     87.70      0.00
INITIAL           4   CH       22.42      3.72      4.00      0.00      0.00      0.00     68.50      0.00
INITIAL           5   CH       22.42      4.24      4.00      0.00      0.00      0.00     68.50      0.00
ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                                                          BOD     ANAER                          BOD2     ANAER
CARD     RCH  RCH  K2                    K2        K2        K2    BKGRND       BOD       BOD      CONV      BOD2      BOD2      BOD2      CONV      BOD2
TYPE     NUM   ID  OPT                   "A"       "B"       "C"       SOD     DECAY      SETT    TO SOD     DECAY     DECAY      SETT    TO SOD     DECAY
                                                                   g/m²/d   per day       m/d              per day   per day       m/d              per day

COEF-1     1   CH  11 TEXAS            0.000     0.000     1.000     2.469     0.078     0.400     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     2   CH  11 TEXAS            0.000     0.000     0.000     0.713     0.070     0.400     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     3   CH  11 TEXAS            0.000     0.000     0.000     0.713     0.076     0.400     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     4   CH  11 TEXAS            0.000     0.000     0.000     2.494     0.067     0.400     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     5   CH  11 TEXAS            0.000     0.000     0.000     3.563     0.066     0.400     0.000     0.000     0.000     0.000     0.000     0.000
ENDATA12

$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$

CARD TYPE      REACH  ID        NBOD      NBOD   ORGN CONV       NH3       NH3      PHOS     DENIT
                                DECA      SETT  TO NH3 SRCE      DECA      SRCE      SRCE      RATE

COEF-2           1   CH       0.108     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           2   CH       0.110     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           3   CH       0.113     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           4   CH       0.087     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           5   CH       0.088     0.050     0.000       0.000     0.000     0.000     0.000
ENDATA13

$$$ DATA TYPE 14 (ALGAE AND MACROPHYTE COEFFICIENTS) $$$

CARD TYPE      REACH  ID       SECCHI    ALGAE:     ALGAE    ALG CONV     ALGAE     ALGAE     MACRO     MACRO
                                DEPTH     CHL A      SETT     TO SOD      GROW      RESP      GROW      RESP

ENDATA14

$$$ DATA TYPE 15 (COLIFORM AND NONCONSERVATIVE COEFFICIENTS) $$$
```

```
CARD TYPE      REACH  ID    COLIFORM       NCM       NCM    NCM CONV
                            DIE-OFF     DECAY      SETT     TO SOD

ENDATA15

$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE      REACH  ID       OUTFLOW      INFLOW      TEMP     SALIN      CM-I     CM-II   IN/DIST  OUT/DIST

INCR-1           1   CH       0.00000     0.07870     20.96      0.70   1000.00   2800.00   0.02623   0.00000
INCR-1           2   CH       0.00000     0.02050     20.96      1.20   2000.00   3800.00   0.00854   0.00000
INCR-1           3   CH       0.00000     0.02050     20.96      3.50   2600.00   8800.00   0.00854   0.00000
INCR-1           4   CH       0.00000     0.59800     22.42      3.70   2600.00   8800.00   0.26000   0.00000
INCR-1           5   CH       0.00000     0.19040     22.42      4.20   2600.00   8800.00   0.63467   0.00000
ENDATA16

$$$ DATA TYPE 17 (INCREMENTAL DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE      REACH  ID          DO       BOD      NBOD                        BOD#2

INCR-2           1   CH        4.00      7.12      1.79      0.00      0.00      0.00
INCR-2           2   CH        4.00      9.93      2.03      0.00      0.00      0.00
INCR-2           3   CH        4.00     11.92      2.52      0.00      0.00      0.00
INCR-2           4   CH        4.00     11.08      2.54      0.00      0.00      0.00
INCR-2           5   CH        4.00     10.80      2.51      0.00      0.00      0.00
ENDATA17

$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

INCR-3           1   CH        0.00     60.00      0.00      0.00
INCR-3           2   CH        0.00     36.20      0.00      0.00
INCR-3           3   CH        0.00     87.70      0.00      0.00
INCR-3           4   CH        0.00     68.50      0.00      0.00
INCR-3           5   CH        0.00     68.50      0.00      0.00
ENDATA18

$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$

CARD TYPE      REACH  ID       BOD#1     NBOD       COLI       NCM        DO     BOD#2

NONPOINT         1   CH      855.00     64.12      0.00      0.00      0.00      0.00
NONPOINT         2   CH     2280.00    285.00      0.00      0.00      0.00      0.00
NONPOINT         3   CH      712.50     71.25      0.00      0.00      0.00      0.00
NONPOINT         4   CH     1068.75    106.88      0.00      0.00      0.00      0.00
NONPOINT         5   CH     1068.75    106.88      0.00      0.00      0.00      0.00
ENDATA19

$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$
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CARD TYPE     ELEMENT   NAME                  UNIT     FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                                        m³/s      cfs   deg C      ppt      MG/L      MG/L

HDWTR-1           1     HEADWATER - BC01        0   0.15970    5.639   20.96     0.20   137.000   865.300
ENDATA20

$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE     ELEMENT   NAME                          DO     BOD#1     NBOD                          BOD#2
                                                     mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2           1     HEADWATER - BC01            8.03      6.37      1.93      0.00      0.00      0.00
ENDATA21

$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                         PHOS     CHL A      COLI       NCM
                                                     mg/L      mg/L      mg/L      mg/L

HDWTR-3           1     HEADWATER - BC01             0.00      0.00      0.00      0.00
ENDATA22

$$$ DATA TYPE 23 (JUNCTION DATA) $$$

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

ENDATA23

$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE  ELEMENT    RKILO  NAME                      FLOW       FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                                        m³/s        cfs      MGD   deg C      ppt      MG/L      MG/L

ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                                   % BOD                          %
CARD TYPE     ELEMENT   NAME                          DO       BOD      RMVL     NBOD                NITRIF                BOD#2
                                                     mg/L      mg/L                mg/L      mg/L                mg/L      mg/L

ENDATA25

$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                         PHOS     CHL A      COLI       NCM
                                                     mg/L      mg/L      mg/L      mg/L

ENDATA26
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$$$ DATA TYPE 27 (LOWER BOUNDARY CONDITIONS) $$$

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     22.420     deg C
LOWER BC     SALINITY                          =      4.510     ppt
LOWER BC     CONSERVATIVE MATERIAL I           =    274.000     MG/L
LOWER BC     CONSERVATIVE MATERIAL II          =    601.000     MG/L
LOWER BC     DISSOLVED OXYGEN                  =      4.000     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND    =     14.755     mg/L
LOWER BC     CHLOROPHYLL A                     =    105.000     µg/L
LOWER BC     NBOD                              =      3.485     mg/L
ENDATA27

$$$ DATA TYPE 28 (DAM DATA) $$$

CARD TYPE     ELEMENT   NAME                 EQN      "A"       "B"       "H"

ENDATA28

$$$ DATA TYPE 29 (SENSITIVITY ANALYSIS DATA) $$$

CARD TYPE       PARAMETER     COL 1     COL 2     COL 3     COL 4     COL 5     COL 6     COL 7     COL 8

ENDATA29

$$$ DATA TYPE 30 (PLOT CONTROL CARDS) $$$


NUMBER OF PLOTS =  1
NUMBER OF REACHES IN PLOT 1 =   5
PLOT RCH  1  2  3  4  5
ENDATA30

$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$


ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   5 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11


FINAL REPORT    HEADWATER - BC01                                BAYOU CHAUVIN 120507 WATERSHED MODEL
REACH NO.  1      BC01 - BC03                                   BAYOU CHAUVIN 120507 WINTER PROJECTION 43% REDUCTION
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********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HDWTR | 0.15970 | 20.96 | 0.45 | 137.00 | 865.30 | 8.03 | 6.37 | 0.00 | 6.37 | 0.00 | 1.93 | 0.00 | 0.00 | 0.00 | 60.00 | 0.00 | 0.00 |
| EACH | INCR | 0.00262 | 20.96 | 0.70 | 1000.00 | 2800.00 | 4.00 | 7.12 | 0.00 | | | 1.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14.70 | 14.60 | 0.16232 | 0.0 | 0.00547 | 0.21 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 459.22 | 0.000 | 1.500 | 0.005 |
| 2 | 14.60 | 14.50 | 0.16495 | 0.0 | 0.00555 | 0.21 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 918.43 | 0.001 | 1.500 | 0.006 |
| 3 | 14.50 | 14.40 | 0.16757 | 0.0 | 0.00564 | 0.21 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 1377.65 | 0.001 | 1.500 | 0.006 |
| 4 | 14.40 | 14.30 | 0.17019 | 0.0 | 0.00573 | 0.20 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 1836.86 | 0.001 | 1.500 | 0.006 |
| 5 | 14.30 | 14.20 | 0.17282 | 0.0 | 0.00582 | 0.20 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 2296.08 | 0.002 | 1.500 | 0.006 |
| 6 | 14.20 | 14.10 | 0.17544 | 0.0 | 0.00591 | 0.20 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 2755.30 | 0.002 | 1.500 | 0.006 |
| 7 | 14.10 | 14.00 | 0.17806 | 0.0 | 0.00600 | 0.19 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 3214.51 | 0.002 | 1.500 | 0.006 |
| 8 | 14.00 | 13.90 | 0.18069 | 0.0 | 0.00608 | 0.19 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 3673.73 | 0.003 | 1.500 | 0.006 |
| 9 | 13.90 | 13.80 | 0.18331 | 0.0 | 0.00617 | 0.19 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 4132.94 | 0.003 | 1.500 | 0.006 |
| 10 | 13.80 | 13.70 | 0.18593 | 0.0 | 0.00626 | 0.18 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 4592.16 | 0.003 | 1.500 | 0.006 |
| 11 | 13.70 | 13.60 | 0.18856 | 0.0 | 0.00635 | 0.18 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 5051.38 | 0.004 | 1.500 | 0.006 |
| 12 | 13.60 | 13.50 | 0.19118 | 0.0 | 0.00644 | 0.18 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 5510.59 | 0.004 | 1.500 | 0.006 |
| 13 | 13.50 | 13.40 | 0.19380 | 0.0 | 0.00653 | 0.18 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 5969.81 | 0.004 | 1.500 | 0.007 |
| 14 | 13.40 | 13.30 | 0.19643 | 0.0 | 0.00661 | 0.17 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 6429.02 | 0.005 | 1.500 | 0.007 |
| 15 | 13.30 | 13.20 | 0.19905 | 0.0 | 0.00670 | 0.17 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 6888.24 | 0.005 | 1.500 | 0.007 |
| 16 | 13.20 | 13.10 | 0.20167 | 0.0 | 0.00679 | 0.17 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 7347.46 | 0.005 | 1.500 | 0.007 |
| 17 | 13.10 | 13.00 | 0.20430 | 0.0 | 0.00688 | 0.17 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 7806.67 | 0.006 | 1.500 | 0.008 |
| 18 | 13.00 | 12.90 | 0.20692 | 0.0 | 0.00697 | 0.17 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 8265.89 | 0.006 | 1.500 | 0.008 |
| 19 | 12.90 | 12.80 | 0.20954 | 0.0 | 0.00706 | 0.16 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 8725.10 | 0.007 | 1.500 | 0.008 |
| 20 | 12.80 | 12.70 | 0.21217 | 0.0 | 0.00714 | 0.16 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 9184.32 | 0.007 | 1.500 | 0.008 |
| 21 | 12.70 | 12.60 | 0.21479 | 0.0 | 0.00723 | 0.16 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 9643.53 | 0.007 | 1.500 | 0.009 |
| 22 | 12.60 | 12.50 | 0.21741 | 0.0 | 0.00732 | 0.16 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 10102.75 | 0.008 | 1.500 | 0.009 |
| 23 | 12.50 | 12.40 | 0.22004 | 0.0 | 0.00741 | 0.16 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 10561.97 | 0.008 | 1.500 | 0.009 |
| 24 | 12.40 | 12.30 | 0.22266 | 0.0 | 0.00750 | 0.15 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 11021.18 | 0.008 | 1.500 | 0.010 |
| 25 | 12.30 | 12.20 | 0.22528 | 0.0 | 0.00759 | 0.15 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 11480.40 | 0.009 | 1.500 | 0.010 |
| 26 | 12.20 | 12.10 | 0.22791 | 0.0 | 0.00767 | 0.15 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 11939.61 | 0.009 | 1.500 | 0.010 |
| 27 | 12.10 | 12.00 | 0.23053 | 0.0 | 0.00776 | 0.15 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 12398.83 | 0.009 | 1.500 | 0.011 |
| 28 | 12.00 | 11.90 | 0.23315 | 0.0 | 0.00785 | 0.15 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 12858.04 | 0.010 | 1.500 | 0.011 |
| 29 | 11.90 | 11.80 | 0.23578 | 0.0 | 0.00794 | 0.15 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 13317.26 | 0.010 | 1.500 | 0.011 |
| 30 | 11.80 | 11.70 | 0.23840 | 0.0 | 0.00803 | 0.14 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 13776.48 | 0.010 | 1.500 | 0.012 |
| TOT | | | | | | 5.21 | | | 89087.90 | 76536.00 | | | | | |
| AVG | | | | | 0.0067 | | 1.16 | 25.51 | | | 29.70 | | | | |
| CUM | | | | | | 5.21 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14.600 | 8.88 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 14.500 | 8.88 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 14.400 | 8.88 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | 14.300 | 8.88 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.97 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 14.200 | 8.88 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 14.100 | 8.88 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 14.000 | 8.88 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 13.900 | 8.88 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 13.800 | 8.88 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.76 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 13.700 | 8.88 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 13.600 | 8.88 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.68 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 13.500 | 8.87 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.64 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 13.400 | 8.87 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.60 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14 | 13.300 | 8.87 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 13.200 | 8.87 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.51 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 13.100 | 8.87 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | 13.000 | 8.87 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.43 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | 12.900 | 8.87 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 12.800 | 8.87 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 12.700 | 8.87 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.31 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | 12.600 | 8.87 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 12.500 | 8.87 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 12.400 | 8.86 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 12.300 | 8.86 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 12.200 | 8.86 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 12.100 | 8.86 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | 12.000 | 8.86 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 11.900 | 8.86 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.97 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 11.800 | 8.86 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 11.700 | 8.86 | 0.61 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 2.62 | 2.62 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.89 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 0.60 | 0.08 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 2.47 | | | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14.600 | 20.96 | 0.73 | 144.50 | 882.11 | 8.03 | 6.97 | 0.00 | 6.97 | 0.00 | 1.97 | 0.00 | 0.00 | 0.00 | 0.00 | 59.21 | 0.00 | 0. | 0.00 |
| 2 | 14.500 | 20.96 | 0.74 | 157.14 | 910.45 | 8.03 | 7.92 | 0.00 | 7.92 | 0.00 | 2.04 | 0.00 | 0.00 | 0.00 | 0.00 | 58.41 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 14.400 | 20.96 | 0.76 | 169.42 | 937.98 | 8.00 | 8.78 | 0.00 | 8.78 | 0.00 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 | 57.62 | 0.00 | 0. | 0.00 |
| 4 | 14.300 | 20.96 | 0.78 | 181.36 | 964.76 | 7.97 | 9.55 | 0.00 | 9.55 | 0.00 | 2.16 | 0.00 | 0.00 | 0.00 | 0.00 | 56.83 | 0.00 | 0. | 0.00 |
| 5 | 14.200 | 20.96 | 0.79 | 192.98 | 990.79 | 7.92 | 10.26 | 0.00 | 10.26 | 0.00 | 2.22 | 0.00 | 0.00 | 0.00 | 0.00 | 56.03 | 0.00 | 0. | 0.00 |
| 6 | 14.100 | 20.96 | 0.81 | 204.27 | 1016.11 | 7.87 | 10.89 | 0.00 | 10.89 | 0.00 | 2.28 | 0.00 | 0.00 | 0.00 | 0.00 | 55.24 | 0.00 | 0. | 0.00 |
| 7 | 14.000 | 20.96 | 0.83 | 215.27 | 1040.76 | 7.81 | 11.47 | 0.00 | 11.47 | 0.00 | 2.33 | 0.00 | 0.00 | 0.00 | 0.00 | 54.45 | 0.00 | 0. | 0.00 |
| 8 | 13.900 | 20.96 | 0.84 | 225.97 | 1064.75 | 7.74 | 12.00 | 0.00 | 12.00 | 0.00 | 2.38 | 0.00 | 0.00 | 0.00 | 0.00 | 53.65 | 0.00 | 0. | 0.00 |
| 9 | 13.800 | 20.96 | 0.86 | 236.39 | 1088.11 | 7.67 | 12.47 | 0.00 | 12.47 | 0.00 | 2.43 | 0.00 | 0.00 | 0.00 | 0.00 | 52.86 | 0.00 | 0. | 0.00 |
| 10 | 13.700 | 20.96 | 0.88 | 246.54 | 1110.87 | 7.60 | 12.91 | 0.00 | 12.91 | 0.00 | 2.47 | 0.00 | 0.00 | 0.00 | 0.00 | 52.07 | 0.00 | 0. | 0.00 |
| 11 | 13.600 | 20.96 | 0.89 | 256.43 | 1133.04 | 7.53 | 13.31 | 0.00 | 13.31 | 0.00 | 2.51 | 0.00 | 0.00 | 0.00 | 0.00 | 51.27 | 0.00 | 0. | 0.00 |
| 12 | 13.500 | 20.96 | 0.91 | 266.07 | 1154.65 | 7.45 | 13.67 | 0.00 | 13.67 | 0.00 | 2.55 | 0.00 | 0.00 | 0.00 | 0.00 | 50.48 | 0.00 | 0. | 0.00 |
| 13 | 13.400 | 20.96 | 0.93 | 275.47 | 1175.72 | 7.37 | 14.00 | 0.00 | 14.00 | 0.00 | 2.59 | 0.00 | 0.00 | 0.00 | 0.00 | 49.69 | 0.00 | 0. | 0.00 |
| 14 | 13.300 | 20.96 | 0.94 | 284.64 | 1196.27 | 7.29 | 14.30 | 0.00 | 14.30 | 0.00 | 2.63 | 0.00 | 0.00 | 0.00 | 0.00 | 48.89 | 0.00 | 0. | 0.00 |
| 15 | 13.200 | 20.96 | 0.96 | 293.58 | 1216.31 | 7.21 | 14.58 | 0.00 | 14.58 | 0.00 | 2.66 | 0.00 | 0.00 | 0.00 | 0.00 | 48.10 | 0.00 | 0. | 0.00 |
| 16 | 13.100 | 20.96 | 0.98 | 302.31 | 1235.87 | 7.13 | 14.83 | 0.00 | 14.83 | 0.00 | 2.70 | 0.00 | 0.00 | 0.00 | 0.00 | 47.31 | 0.00 | 0. | 0.00 |
| 17 | 13.000 | 20.96 | 0.99 | 310.83 | 1254.95 | 7.05 | 15.06 | 0.00 | 15.06 | 0.00 | 2.73 | 0.00 | 0.00 | 0.00 | 0.00 | 46.51 | 0.00 | 0. | 0.00 |
| 18 | 12.900 | 20.96 | 1.01 | 319.14 | 1273.57 | 6.97 | 15.28 | 0.00 | 15.28 | 0.00 | 2.76 | 0.00 | 0.00 | 0.00 | 0.00 | 45.72 | 0.00 | 0. | 0.00 |
| 19 | 12.800 | 20.96 | 1.03 | 327.26 | 1291.74 | 6.89 | 15.48 | 0.00 | 15.48 | 0.00 | 2.80 | 0.00 | 0.00 | 0.00 | 0.00 | 44.93 | 0.00 | 0. | 0.00 |
| 20 | 12.700 | 20.96 | 1.04 | 335.18 | 1309.46 | 6.81 | 15.67 | 0.00 | 15.67 | 0.00 | 2.83 | 0.00 | 0.00 | 0.00 | 0.00 | 44.13 | 0.00 | 0. | 0.00 |
| 21 | 12.600 | 20.96 | 1.06 | 342.92 | 1326.75 | 6.73 | 15.86 | 0.00 | 15.86 | 0.00 | 2.86 | 0.00 | 0.00 | 0.00 | 0.00 | 43.34 | 0.00 | 0. | 0.00 |
| 22 | 12.500 | 20.96 | 1.08 | 350.47 | 1343.60 | 6.65 | 16.04 | 0.00 | 16.04 | 0.00 | 2.89 | 0.00 | 0.00 | 0.00 | 0.00 | 42.55 | 0.00 | 0. | 0.00 |
| 23 | 12.400 | 20.96 | 1.09 | 357.85 | 1359.99 | 6.57 | 16.23 | 0.00 | 16.23 | 0.00 | 2.93 | 0.00 | 0.00 | 0.00 | 0.00 | 41.75 | 0.00 | 0. | 0.00 |
| 24 | 12.300 | 20.96 | 1.11 | 365.03 | 1375.90 | 6.49 | 16.44 | 0.00 | 16.44 | 0.00 | 2.97 | 0.00 | 0.00 | 0.00 | 0.00 | 40.96 | 0.00 | 0. | 0.00 |
| 25 | 12.200 | 20.96 | 1.13 | 372.03 | 1391.29 | 6.42 | 16.69 | 0.00 | 16.69 | 0.00 | 3.02 | 0.00 | 0.00 | 0.00 | 0.00 | 40.17 | 0.00 | 0. | 0.00 |
| 26 | 12.100 | 20.96 | 1.14 | 378.83 | 1406.07 | 6.34 | 17.01 | 0.00 | 17.01 | 0.00 | 3.08 | 0.00 | 0.00 | 0.00 | 0.00 | 39.37 | 0.00 | 0. | 0.00 |
| 27 | 12.000 | 20.96 | 1.16 | 385.41 | 1420.12 | 6.27 | 17.46 | 0.00 | 17.46 | 0.00 | 3.17 | 0.00 | 0.00 | 0.00 | 0.00 | 38.58 | 0.00 | 0. | 0.00 |
| 28 | 11.900 | 20.96 | 1.18 | 391.74 | 1433.23 | 6.21 | 18.13 | 0.00 | 18.13 | 0.00 | 3.29 | 0.00 | 0.00 | 0.00 | 0.00 | 37.79 | 0.00 | 0. | 0.00 |
| 29 | 11.800 | 20.96 | 1.19 | 397.76 | 1445.07 | 6.17 | 19.14 | 0.00 | 19.14 | 0.00 | 3.47 | 0.00 | 0.00 | 0.00 | 0.00 | 36.99 | 0.00 | 0. | 0.00 |
| 30 | 11.700 | 20.96 | 1.21 | 403.38 | 1455.13 | 6.16 | 20.74 | 0.00 | 20.74 | 0.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 | 36.20 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER - BC01 BAYOU CHAUVIN 120507 WATERSHED MODEL
REACH NO. 2 BC03 - BC05 BAYOU CHAUVIN 120507 WINTER PROJECTION 43% REDUCTION

********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | UPR RCH | 0.23840 | 20.96 | 1.21 | 403.38 | 1455.13 | 6.16 | 20.74 | 0.00 | 20.74 | 0.00 | 3.75 | 0.00 | 0.00 | 0.00 | 36.20 | 0.00 | 0.00 |
| EACH | INCR | 0.00085 | 20.96 | 1.20 | 2000.00 | 3800.00 | 4.00 | 9.93 | 0.00 | | | 2.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW $m^3/s$ | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME $m^3$ | SURFACE AREA $m^2$ | X-SECT AREA $m^2$ | TIDAL PRISM $m^3$ | TIDAL VELO m/s | DISPRSN $m^2/s$ | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 11.70 | 11.60 | 0.23925 | 0.0 | 0.00916 | 0.13 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 14231.84 | 0.012 | 1.500 | 0.014 |
| 32 | 11.60 | 11.50 | 0.24011 | 0.0 | 0.00919 | 0.13 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 14687.21 | 0.012 | 1.500 | 0.014 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 33 | 11.50 | 11.40 | 0.24096 | 0.0 | 0.00922 | 0.13 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 15142.57 | 0.013 | 1.500 | 0.014 |
| 34 | 11.40 | 11.30 | 0.24182 | 0.0 | 0.00925 | 0.13 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 15597.93 | 0.013 | 1.500 | 0.015 |
| 35 | 11.30 | 11.20 | 0.24267 | 0.0 | 0.00929 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 16053.30 | 0.014 | 1.500 | 0.015 |
| 36 | 11.20 | 11.10 | 0.24353 | 0.0 | 0.00932 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 16508.66 | 0.014 | 1.500 | 0.015 |
| 37 | 11.10 | 11.00 | 0.24438 | 0.0 | 0.00935 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 16964.03 | 0.014 | 1.500 | 0.016 |
| 38 | 11.00 | 10.90 | 0.24523 | 0.0 | 0.00938 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 17419.39 | 0.015 | 1.500 | 0.016 |
| 39 | 10.90 | 10.80 | 0.24609 | 0.0 | 0.00942 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 17874.75 | 0.015 | 1.500 | 0.016 |
| 40 | 10.80 | 10.70 | 0.24694 | 0.0 | 0.00945 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 18330.12 | 0.016 | 1.500 | 0.017 |
| 41 | 10.70 | 10.60 | 0.24780 | 0.0 | 0.00948 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 18785.48 | 0.016 | 1.500 | 0.017 |
| 42 | 10.60 | 10.50 | 0.24865 | 0.0 | 0.00951 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 19240.84 | 0.016 | 1.500 | 0.017 |
| 43 | 10.50 | 10.40 | 0.24950 | 0.0 | 0.00955 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 19696.21 | 0.017 | 1.500 | 0.018 |
| 44 | 10.40 | 10.30 | 0.25036 | 0.0 | 0.00958 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 20151.57 | 0.017 | 1.500 | 0.018 |
| 45 | 10.30 | 10.20 | 0.25121 | 0.0 | 0.00961 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 20606.93 | 0.018 | 1.500 | 0.019 |
| 46 | 10.20 | 10.10 | 0.25207 | 0.0 | 0.00965 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 21062.29 | 0.018 | 1.500 | 0.019 |
| 47 | 10.10 | 10.00 | 0.25292 | 0.0 | 0.00968 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 21517.66 | 0.018 | 1.500 | 0.019 |
| 48 | 10.00 | 9.90 | 0.25378 | 0.0 | 0.00971 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 21973.02 | 0.019 | 1.500 | 0.020 |
| 49 | 9.90 | 9.80 | 0.25463 | 0.0 | 0.00974 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 22428.38 | 0.019 | 1.500 | 0.020 |
| 50 | 9.80 | 9.70 | 0.25548 | 0.0 | 0.00978 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 22883.75 | 0.019 | 1.500 | 0.020 |
| 51 | 9.70 | 9.60 | 0.25634 | 0.0 | 0.00981 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 23339.11 | 0.020 | 1.500 | 0.021 |
| 52 | 9.60 | 9.50 | 0.25719 | 0.0 | 0.00984 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 23794.47 | 0.020 | 1.500 | 0.021 |
| 53 | 9.50 | 9.40 | 0.25805 | 0.0 | 0.00987 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 24249.84 | 0.021 | 1.500 | 0.022 |
| 54 | 9.40 | 9.30 | 0.25890 | 0.0 | 0.00991 | 0.12 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 24705.20 | 0.021 | 1.500 | 0.022 |
| TOT | | | | | | 2.92 | | | 62718.82 | 60715.21 | | | | | |
| AVG | | | | | 0.0095 | | 1.03 | 25.30 | | | 26.13 | | | | |
| CUM | | | | | | 8.13 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 11.600 | 8.85 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 32 | 11.500 | 8.85 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 33 | 11.400 | 8.84 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34 | 11.300 | 8.84 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35 | 11.200 | 8.83 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 36 | 11.100 | 8.83 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.56 | 0.00 | 0.00 | 0.00 | 0.00 |
| 37 | 11.000 | 8.82 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.68 | 0.00 | 0.00 | 0.00 | 0.00 |
| 38 | 10.900 | 8.82 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.79 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39 | 10.800 | 8.81 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40 | 10.700 | 8.81 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 41 | 10.600 | 8.81 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 42 | 10.500 | 8.80 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 43 | 10.400 | 8.80 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 44 | 10.300 | 8.79 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45 | 10.200 | 8.79 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 46 | 10.100 | 8.78 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 47 | 10.000 | 8.78 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.80 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 48 | 9.900 | 8.77 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.91 | 0.00 | 0.00 | 0.00 | 0.00 |
| 49 | 9.800 | 8.77 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50 | 9.700 | 8.76 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 51 | 9.600 | 8.76 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 52 | 9.500 | 8.75 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| 53 | 9.400 | 8.75 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 54 | 9.300 | 8.74 | 0.69 | 0.07 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.58 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 0.68 | 0.07 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.71 | | | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 11.600 | 20.96 | 1.30 | 408.78 | 1463.07 | 6.24 | 23.48 | 0.00 | 23.48 | 0.00 | 4.19 | 0.00 | 0.00 | 0.00 | 0.00 | 38.35 | 0.00 | 0. | 0.00 |
| 32 | 11.500 | 20.96 | 1.40 | 414.38 | 1471.29 | 6.29 | 26.16 | 0.00 | 26.16 | 0.00 | 4.64 | 0.00 | 0.00 | 0.00 | 0.00 | 40.49 | 0.00 | 0. | 0.00 |
| 33 | 11.400 | 20.96 | 1.49 | 419.94 | 1479.45 | 6.33 | 28.69 | 0.00 | 28.69 | 0.00 | 5.08 | 0.00 | 0.00 | 0.00 | 0.00 | 42.64 | 0.00 | 0. | 0.00 |
| 34 | 11.300 | 20.96 | 1.59 | 425.46 | 1487.56 | 6.36 | 31.07 | 0.00 | 31.07 | 0.00 | 5.51 | 0.00 | 0.00 | 0.00 | 0.00 | 44.78 | 0.00 | 0. | 0.00 |
| 35 | 11.200 | 20.96 | 1.68 | 430.94 | 1495.61 | 6.38 | 33.32 | 0.00 | 33.32 | 0.00 | 5.93 | 0.00 | 0.00 | 0.00 | 0.00 | 46.93 | 0.00 | 0. | 0.00 |
| 36 | 11.100 | 20.96 | 1.78 | 436.38 | 1503.61 | 6.39 | 35.43 | 0.00 | 35.43 | 0.00 | 6.33 | 0.00 | 0.00 | 0.00 | 0.00 | 49.08 | 0.00 | 0. | 0.00 |
| 37 | 11.000 | 20.96 | 1.87 | 441.79 | 1511.55 | 6.39 | 37.43 | 0.00 | 37.43 | 0.00 | 6.73 | 0.00 | 0.00 | 0.00 | 0.00 | 51.22 | 0.00 | 0. | 0.00 |
| 38 | 10.900 | 20.96 | 1.96 | 447.16 | 1519.44 | 6.38 | 39.30 | 0.00 | 39.30 | 0.00 | 7.11 | 0.00 | 0.00 | 0.00 | 0.00 | 53.37 | 0.00 | 0. | 0.00 |
| 39 | 10.800 | 20.96 | 2.06 | 452.49 | 1527.28 | 6.37 | 41.07 | 0.00 | 41.07 | 0.00 | 7.49 | 0.00 | 0.00 | 0.00 | 0.00 | 55.51 | 0.00 | 0. | 0.00 |
| 40 | 10.700 | 20.96 | 2.15 | 457.79 | 1535.07 | 6.35 | 42.74 | 0.00 | 42.74 | 0.00 | 7.86 | 0.00 | 0.00 | 0.00 | 0.00 | 57.66 | 0.00 | 0. | 0.00 |
| 41 | 10.600 | 20.96 | 2.25 | 463.05 | 1542.81 | 6.34 | 44.31 | 0.00 | 44.31 | 0.00 | 8.22 | 0.00 | 0.00 | 0.00 | 0.00 | 59.80 | 0.00 | 0. | 0.00 |
| 42 | 10.500 | 20.96 | 2.34 | 468.28 | 1550.52 | 6.32 | 45.79 | 0.00 | 45.79 | 0.00 | 8.56 | 0.00 | 0.00 | 0.00 | 0.00 | 61.95 | 0.00 | 0. | 0.00 |
| 43 | 10.400 | 20.96 | 2.43 | 473.48 | 1558.19 | 6.30 | 47.19 | 0.00 | 47.19 | 0.00 | 8.90 | 0.00 | 0.00 | 0.00 | 0.00 | 64.10 | 0.00 | 0. | 0.00 |
| 44 | 10.300 | 20.96 | 2.53 | 478.65 | 1565.85 | 6.28 | 48.50 | 0.00 | 48.50 | 0.00 | 9.23 | 0.00 | 0.00 | 0.00 | 0.00 | 66.24 | 0.00 | 0. | 0.00 |
| 45 | 10.200 | 20.96 | 2.62 | 483.79 | 1573.52 | 6.26 | 49.73 | 0.00 | 49.73 | 0.00 | 9.55 | 0.00 | 0.00 | 0.00 | 0.00 | 68.39 | 0.00 | 0. | 0.00 |
| 46 | 10.100 | 20.96 | 2.72 | 488.92 | 1581.22 | 6.25 | 50.89 | 0.00 | 50.89 | 0.00 | 9.87 | 0.00 | 0.00 | 0.00 | 0.00 | 70.53 | 0.00 | 0. | 0.00 |
| 47 | 10.000 | 20.96 | 2.81 | 494.04 | 1589.04 | 6.23 | 51.95 | 0.00 | 51.95 | 0.00 | 10.17 | 0.00 | 0.00 | 0.00 | 0.00 | 72.68 | 0.00 | 0. | 0.00 |
| 48 | 9.900 | 20.96 | 2.90 | 499.16 | 1597.06 | 6.22 | 52.93 | 0.00 | 52.93 | 0.00 | 10.45 | 0.00 | 0.00 | 0.00 | 0.00 | 74.82 | 0.00 | 0. | 0.00 |
| 49 | 9.800 | 20.96 | 3.00 | 504.33 | 1605.46 | 6.22 | 53.79 | 0.00 | 53.79 | 0.00 | 10.73 | 0.00 | 0.00 | 0.00 | 0.00 | 76.97 | 0.00 | 0. | 0.00 |
| 50 | 9.700 | 20.96 | 3.09 | 509.58 | 1614.51 | 6.22 | 54.49 | 0.00 | 54.49 | 0.00 | 10.98 | 0.00 | 0.00 | 0.00 | 0.00 | 79.12 | 0.00 | 0. | 0.00 |
| 51 | 9.600 | 20.96 | 3.19 | 514.99 | 1624.68 | 6.22 | 54.98 | 0.00 | 54.98 | 0.00 | 11.20 | 0.00 | 0.00 | 0.00 | 0.00 | 81.26 | 0.00 | 0. | 0.00 |
| 52 | 9.500 | 20.96 | 3.28 | 520.69 | 1636.73 | 6.24 | 55.12 | 0.00 | 55.12 | 0.00 | 11.37 | 0.00 | 0.00 | 0.00 | 0.00 | 83.41 | 0.00 | 0. | 0.00 |
| 53 | 9.400 | 20.96 | 3.38 | 526.89 | 1651.96 | 6.27 | 54.71 | 0.00 | 54.71 | 0.00 | 11.47 | 0.00 | 0.00 | 0.00 | 0.00 | 85.55 | 0.00 | 0. | 0.00 |
| 54 | 9.300 | 20.96 | 3.47 | 533.96 | 1672.49 | 6.31 | 53.34 | 0.00 | 53.34 | 0.00 | 11.45 | 0.00 | 0.00 | 0.00 | 0.00 | 87.70 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER - BC01 BAYOU CHAUVIN 120507 WATERSHED MODEL
REACH NO. 3 BC05 - BC06 BAYOU CHAUVIN 120507 WINTER PROJECTION 43% REDUCTION

********** REACH INPUTS **********

| ELEM | TYPE | FLOW | TEMP | SALN | CM-I | CM-II | DO | BOD#1 | BOD#2 | EBOD#1 | EBOD#2 | ORGN | NH3 | NO3+2 | PHOS | CHL A | COLI | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| NO. | | | deg C | ppt | MG/L | MG/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | µg/L | #/100mL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | UPR RCH | 0.25890 | 20.96 | 3.47 | 533.96 | 1672.49 | 6.31 | 53.34 | 0.00 | 53.34 | 0.00 | 11.45 | 0.00 | 0.00 | 0.00 | 87.70 | 0.00 | 0.00 |
| EACH | INCR | 0.00085 | 20.96 | 3.50 | 2600.00 | 8800.00 | 4.00 | 11.92 | 0.00 | | | 2.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW m³/s | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME m³ | SURFACE AREA m² | X-SECT AREA m² | TIDAL PRISM m³ | TIDAL VELO m/s | DISPRSN m²/s | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | 9.30 | 9.20 | 0.25975 | 0.0 | 0.00748 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 25308.71 | 0.016 | 1.500 | 0.017 |
| 56 | 9.20 | 9.10 | 0.26061 | 0.0 | 0.00750 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 25912.21 | 0.017 | 1.500 | 0.017 |
| 57 | 9.10 | 9.00 | 0.26146 | 0.0 | 0.00753 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 26515.71 | 0.017 | 1.500 | 0.018 |
| 58 | 9.00 | 8.90 | 0.26232 | 0.0 | 0.00755 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 27119.22 | 0.017 | 1.500 | 0.018 |
| 59 | 8.90 | 8.80 | 0.26317 | 0.0 | 0.00758 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 27722.72 | 0.018 | 1.500 | 0.018 |
| 60 | 8.80 | 8.70 | 0.26402 | 0.0 | 0.00760 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 28326.22 | 0.018 | 1.500 | 0.019 |
| 61 | 8.70 | 8.60 | 0.26488 | 0.0 | 0.00763 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 28929.73 | 0.019 | 1.500 | 0.019 |
| 62 | 8.60 | 8.50 | 0.26573 | 0.0 | 0.00765 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 29533.23 | 0.019 | 1.500 | 0.020 |
| 63 | 8.50 | 8.40 | 0.26659 | 0.0 | 0.00767 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 30136.74 | 0.019 | 1.500 | 0.020 |
| 64 | 8.40 | 8.30 | 0.26744 | 0.0 | 0.00770 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 30740.24 | 0.020 | 1.500 | 0.020 |
| 65 | 8.30 | 8.20 | 0.26830 | 0.0 | 0.00772 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 31343.74 | 0.020 | 1.500 | 0.021 |
| 66 | 8.20 | 8.10 | 0.26915 | 0.0 | 0.00775 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 31947.25 | 0.020 | 1.500 | 0.021 |
| 67 | 8.10 | 8.00 | 0.27000 | 0.0 | 0.00777 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 32550.75 | 0.021 | 1.500 | 0.021 |
| 68 | 8.00 | 7.90 | 0.27086 | 0.0 | 0.00780 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 33154.26 | 0.021 | 1.500 | 0.022 |
| 69 | 7.90 | 7.80 | 0.27171 | 0.0 | 0.00782 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 33757.76 | 0.022 | 1.500 | 0.022 |
| 70 | 7.80 | 7.70 | 0.27257 | 0.0 | 0.00785 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 34361.27 | 0.022 | 1.500 | 0.023 |
| 71 | 7.70 | 7.60 | 0.27342 | 0.0 | 0.00787 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 34964.77 | 0.022 | 1.500 | 0.023 |
| 72 | 7.60 | 7.50 | 0.27427 | 0.0 | 0.00790 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 35568.27 | 0.023 | 1.500 | 0.023 |
| 73 | 7.50 | 7.40 | 0.27513 | 0.0 | 0.00792 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 36171.78 | 0.023 | 1.500 | 0.024 |
| 74 | 7.40 | 7.30 | 0.27598 | 0.0 | 0.00795 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 36775.28 | 0.024 | 1.500 | 0.024 |
| 75 | 7.30 | 7.20 | 0.27684 | 0.0 | 0.00797 | 0.15 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 37378.79 | 0.024 | 1.500 | 0.024 |
| 76 | 7.20 | 7.10 | 0.27769 | 0.0 | 0.00799 | 0.14 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 37982.29 | 0.024 | 1.500 | 0.025 |
| 77 | 7.10 | 7.00 | 0.27855 | 0.0 | 0.00802 | 0.14 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 38585.79 | 0.025 | 1.500 | 0.025 |
| 78 | 7.00 | 6.90 | 0.27940 | 0.0 | 0.00804 | 0.14 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 39189.30 | 0.025 | 1.500 | 0.026 |
| TOT | | | | | | 3.58 | | | 83364.01 | 80467.20 | | | | | |
| AVG | | | | | 0.0078 | | 1.04 | 33.53 | | | 34.74 | | | | |
| CUM | | | | | | 11.71 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | 9.200 | 8.73 | 0.69 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 56 | 9.100 | 8.72 | 0.69 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.76 | 0.12 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 57 | 9.000 | 8.71 | 0.69 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.12 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.49 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 58 | 8.900 | 8.70 | 0.69 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.12 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 59 | 8.800 | 8.69 | 0.69 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 0.77 | 0.77 | 0.12 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.44 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60 | 8.700 | 8.68 | 0.69 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.78 | 0.78 | 0.78 | 0.12 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.41 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61 | 8.600 | 8.67 | 0.69 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.78 | 0.78 | 0.78 | 0.12 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 62 | 8.500 | 8.66 | 0.69 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.78 | 0.78 | 0.78 | 0.12 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 63 | 8.400 | 8.65 | 0.70 | 0.08 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.78 | 0.78 | 0.78 | 0.12 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.31 | 0.00 | 0.00 | 0.00 | 0.00 |
| 64 | 8.300 | 8.63 | 0.70 | 0.08 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.79 | 0.79 | 0.79 | 0.12 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65 | 8.200 | 8.62 | 0.70 | 0.08 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.79 | 0.79 | 0.79 | 0.12 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 66 | 8.100 | 8.61 | 0.70 | 0.08 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.79 | 0.79 | 0.79 | 0.12 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 67 | 8.000 | 8.60 | 0.70 | 0.08 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.80 | 0.80 | 0.80 | 0.12 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.19 | 0.00 | 0.00 | 0.00 | 0.00 |
| 68 | 7.900 | 8.59 | 0.70 | 0.08 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.80 | 0.80 | 0.80 | 0.12 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 69 | 7.800 | 8.58 | 0.70 | 0.08 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.80 | 0.80 | 0.80 | 0.12 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70 | 7.700 | 8.57 | 0.70 | 0.08 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.81 | 0.81 | 0.81 | 0.12 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| 71 | 7.600 | 8.56 | 0.70 | 0.08 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.81 | 0.81 | 0.81 | 0.13 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 72 | 7.500 | 8.55 | 0.70 | 0.08 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.81 | 0.81 | 0.81 | 0.13 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 73 | 7.400 | 8.54 | 0.70 | 0.08 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.81 | 0.81 | 0.81 | 0.13 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.99 | 0.00 | 0.00 | 0.00 | 0.00 |
| 74 | 7.300 | 8.53 | 0.70 | 0.08 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.82 | 0.82 | 0.82 | 0.13 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.96 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75 | 7.200 | 8.52 | 0.71 | 0.08 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.82 | 0.82 | 0.82 | 0.13 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 76 | 7.100 | 8.51 | 0.71 | 0.08 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.82 | 0.82 | 0.82 | 0.13 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.90 | 0.00 | 0.00 | 0.00 | 0.00 |
| 77 | 7.000 | 8.50 | 0.71 | 0.08 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.83 | 0.83 | 0.83 | 0.13 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.86 | 0.00 | 0.00 | 0.00 | 0.00 |
| 78 | 6.900 | 8.49 | 0.72 | 0.09 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.83 | 0.83 | 0.83 | 0.13 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 0.68 | 0.08 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.71 | | | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | 9.200 | 21.02 | 3.48 | 541.28 | 1697.74 | 6.35 | 50.78 | 0.00 | 50.78 | 0.00 | 11.26 | 0.00 | 0.00 | 0.00 | 0.00 | 86.90 | 0.00 | 0. | 0.00 |
| 56 | 9.100 | 21.08 | 3.49 | 547.96 | 1720.78 | 6.40 | 48.58 | 0.00 | 48.58 | 0.00 | 11.09 | 0.00 | 0.00 | 0.00 | 0.00 | 86.10 | 0.00 | 0. | 0.00 |
| 57 | 9.000 | 21.14 | 3.50 | 554.60 | 1743.69 | 6.45 | 46.53 | 0.00 | 46.53 | 0.00 | 10.92 | 0.00 | 0.00 | 0.00 | 0.00 | 85.30 | 0.00 | 0. | 0.00 |
| 58 | 8.900 | 21.20 | 3.51 | 561.21 | 1766.50 | 6.52 | 44.61 | 0.00 | 44.61 | 0.00 | 10.75 | 0.00 | 0.00 | 0.00 | 0.00 | 84.50 | 0.00 | 0. | 0.00 |
| 59 | 8.800 | 21.26 | 3.52 | 567.80 | 1789.22 | 6.59 | 42.82 | 0.00 | 42.82 | 0.00 | 10.59 | 0.00 | 0.00 | 0.00 | 0.00 | 83.70 | 0.00 | 0. | 0.00 |
| 60 | 8.700 | 21.32 | 3.53 | 574.37 | 1811.89 | 6.66 | 41.14 | 0.00 | 41.14 | 0.00 | 10.43 | 0.00 | 0.00 | 0.00 | 0.00 | 82.90 | 0.00 | 0. | 0.00 |
| 61 | 8.600 | 21.39 | 3.54 | 580.94 | 1834.55 | 6.74 | 39.57 | 0.00 | 39.57 | 0.00 | 10.28 | 0.00 | 0.00 | 0.00 | 0.00 | 82.10 | 0.00 | 0. | 0.00 |
| 62 | 8.500 | 21.45 | 3.55 | 587.53 | 1857.28 | 6.82 | 38.11 | 0.00 | 38.11 | 0.00 | 10.13 | 0.00 | 0.00 | 0.00 | 0.00 | 81.30 | 0.00 | 0. | 0.00 |
| 63 | 8.400 | 21.51 | 3.56 | 594.16 | 1880.17 | 6.90 | 36.73 | 0.00 | 36.73 | 0.00 | 9.98 | 0.00 | 0.00 | 0.00 | 0.00 | 80.50 | 0.00 | 0. | 0.00 |
| 64 | 8.300 | 21.57 | 3.57 | 600.90 | 1903.40 | 6.97 | 35.45 | 0.00 | 35.45 | 0.00 | 9.84 | 0.00 | 0.00 | 0.00 | 0.00 | 79.70 | 0.00 | 0. | 0.00 |
| 65 | 8.200 | 21.63 | 3.58 | 607.80 | 1927.21 | 7.05 | 34.25 | 0.00 | 34.25 | 0.00 | 9.70 | 0.00 | 0.00 | 0.00 | 0.00 | 78.90 | 0.00 | 0. | 0.00 |
| 66 | 8.100 | 21.69 | 3.60 | 614.98 | 1951.98 | 7.13 | 33.12 | 0.00 | 33.12 | 0.00 | 9.56 | 0.00 | 0.00 | 0.00 | 0.00 | 78.10 | 0.00 | 0. | 0.00 |
| 67 | 8.000 | 21.75 | 3.61 | 622.60 | 1978.26 | 7.21 | 32.06 | 0.00 | 32.06 | 0.00 | 9.42 | 0.00 | 0.00 | 0.00 | 0.00 | 77.30 | 0.00 | 0. | 0.00 |
| 68 | 7.900 | 21.81 | 3.62 | 630.91 | 2006.95 | 7.28 | 31.06 | 0.00 | 31.06 | 0.00 | 9.28 | 0.00 | 0.00 | 0.00 | 0.00 | 76.50 | 0.00 | 0. | 0.00 |
| 69 | 7.800 | 21.87 | 3.63 | 640.31 | 2039.36 | 7.35 | 30.11 | 0.00 | 30.11 | 0.00 | 9.15 | 0.00 | 0.00 | 0.00 | 0.00 | 75.70 | 0.00 | 0. | 0.00 |
| 70 | 7.700 | 21.93 | 3.64 | 651.37 | 2077.54 | 7.42 | 29.21 | 0.00 | 29.21 | 0.00 | 9.01 | 0.00 | 0.00 | 0.00 | 0.00 | 74.90 | 0.00 | 0. | 0.00 |
| 71 | 7.600 | 21.99 | 3.65 | 665.02 | 2124.61 | 7.49 | 28.34 | 0.00 | 28.34 | 0.00 | 8.86 | 0.00 | 0.00 | 0.00 | 0.00 | 74.10 | 0.00 | 0. | 0.00 |
| 72 | 7.500 | 22.06 | 3.66 | 682.63 | 2185.35 | 7.56 | 27.48 | 0.00 | 27.48 | 0.00 | 8.71 | 0.00 | 0.00 | 0.00 | 0.00 | 73.30 | 0.00 | 0. | 0.00 |
| 73 | 7.400 | 22.12 | 3.67 | 706.33 | 2267.14 | 7.63 | 26.60 | 0.00 | 26.60 | 0.00 | 8.53 | 0.00 | 0.00 | 0.00 | 0.00 | 72.50 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 74 | 7.300 | 22.18 | 3.68 | 739.42 | 2381.26 | 7.70 | 25.65 | 0.00 | 25.65 | 0.00 | 8.33 | 0.00 | 0.00 | 0.00 | 0.00 | 71.70 | 0.00 | 0. | 0.00 |
| 75 | 7.200 | 22.24 | 3.69 | 786.92 | 2545.13 | 7.76 | 24.58 | 0.00 | 24.58 | 0.00 | 8.07 | 0.00 | 0.00 | 0.00 | 0.00 | 70.90 | 0.00 | 0. | 0.00 |
| 76 | 7.100 | 22.30 | 3.70 | 856.60 | 2785.53 | 7.82 | 23.25 | 0.00 | 23.25 | 0.00 | 7.74 | 0.00 | 0.00 | 0.00 | 0.00 | 70.10 | 0.00 | 0. | 0.00 |
| 77 | 7.000 | 22.36 | 3.71 | 960.46 | 3143.82 | 7.88 | 21.49 | 0.00 | 21.49 | 0.00 | 7.28 | 0.00 | 0.00 | 0.00 | 0.00 | 69.30 | 0.00 | 0. | 0.00 |
| 78 | 6.900 | 22.42 | 3.72 | 1116.99 | 3683.79 | 7.91 | 18.98 | 0.00 | 18.98 | 0.00 | 6.62 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER - BC01 BAYOU CHAUVIN 120507 WATERSHED MODEL
REACH NO. 4 BC06 - BC07 BAYOU CHAUVIN 120507 WINTER PROJECTION 43% REDUCTION

********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | UPR RCH | 0.27940 | 22.42 | 3.72 | 1116.99 | 3683.79 | 7.91 | 18.98 | 0.00 | 18.98 | 0.00 | 6.62 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0.00 |
| EACH | INCR | 0.02600 | 22.42 | 3.70 | 2600.00 | 8800.00 | 4.00 | 11.08 | 0.00 | | | 2.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW m³/s | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME m³ | SURFACE AREA m² | X-SECT AREA m² | TIDAL PRISM m³ | TIDAL VELO m/s | DISPRSN m²/s | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | 6.90 | 6.80 | 0.30540 | 0.0 | 0.00280 | 0.41 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 40259.14 | 0.008 | 1.500 | 0.008 |
| 80 | 6.80 | 6.70 | 0.33140 | 0.0 | 0.00303 | 0.38 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 41328.99 | 0.008 | 1.500 | 0.009 |
| 81 | 6.70 | 6.60 | 0.35740 | 0.0 | 0.00327 | 0.35 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 42398.84 | 0.009 | 1.500 | 0.009 |
| 82 | 6.60 | 6.50 | 0.38340 | 0.0 | 0.00351 | 0.33 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 43468.69 | 0.009 | 1.500 | 0.009 |
| 83 | 6.50 | 6.40 | 0.40940 | 0.0 | 0.00375 | 0.31 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 44538.54 | 0.009 | 1.500 | 0.009 |
| 84 | 6.40 | 6.30 | 0.43540 | 0.0 | 0.00399 | 0.29 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 45608.38 | 0.009 | 1.500 | 0.010 |
| 85 | 6.30 | 6.20 | 0.46140 | 0.0 | 0.00422 | 0.27 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 46678.23 | 0.009 | 1.500 | 0.010 |
| 86 | 6.20 | 6.10 | 0.48740 | 0.0 | 0.00446 | 0.26 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 47748.08 | 0.010 | 1.500 | 0.010 |
| 87 | 6.10 | 6.00 | 0.51340 | 0.0 | 0.00470 | 0.25 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 48817.93 | 0.010 | 1.500 | 0.010 |
| 88 | 6.00 | 5.90 | 0.53940 | 0.0 | 0.00494 | 0.23 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 49887.77 | 0.010 | 1.500 | 0.011 |
| 89 | 5.90 | 5.80 | 0.56540 | 0.0 | 0.00518 | 0.22 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 50957.62 | 0.010 | 1.500 | 0.011 |
| 90 | 5.80 | 5.70 | 0.59140 | 0.0 | 0.00541 | 0.21 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 52027.47 | 0.011 | 1.500 | 0.011 |
| 91 | 5.70 | 5.60 | 0.61740 | 0.0 | 0.00565 | 0.20 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 53097.32 | 0.011 | 1.500 | 0.011 |
| 92 | 5.60 | 5.50 | 0.64340 | 0.0 | 0.00589 | 0.20 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 54167.16 | 0.011 | 1.500 | 0.012 |
| 93 | 5.50 | 5.40 | 0.66940 | 0.0 | 0.00613 | 0.19 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 55237.01 | 0.011 | 1.500 | 0.012 |
| 94 | 5.40 | 5.30 | 0.69540 | 0.0 | 0.00637 | 0.18 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 56306.86 | 0.011 | 1.500 | 0.012 |
| 95 | 5.30 | 5.20 | 0.72140 | 0.0 | 0.00660 | 0.18 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 57376.71 | 0.012 | 1.500 | 0.012 |
| 96 | 5.20 | 5.10 | 0.74740 | 0.0 | 0.00684 | 0.17 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 58446.55 | 0.012 | 1.500 | 0.013 |
| 97 | 5.10 | 5.00 | 0.77340 | 0.0 | 0.00708 | 0.16 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 59516.40 | 0.012 | 1.500 | 0.013 |
| 98 | 5.00 | 4.90 | 0.79940 | 0.0 | 0.00732 | 0.16 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 60586.25 | 0.012 | 1.500 | 0.013 |
| 99 | 4.90 | 4.80 | 0.82540 | 0.0 | 0.00756 | 0.15 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 61656.10 | 0.013 | 1.500 | 0.013 |
| 100 | 4.80 | 4.70 | 0.85140 | 0.0 | 0.00779 | 0.15 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 62725.95 | 0.013 | 1.500 | 0.014 |
| 101 | 4.70 | 4.60 | 0.87740 | 0.0 | 0.00803 | 0.14 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 63795.79 | 0.013 | 1.500 | 0.014 |
| TOT | | | | | | 5.41 | | | 251259.83 | 136702.83 | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AVG | | | | | | 0.0049 | | | | 1.84 | 59.44 | | | | | | 109.24 | | | | | | |
| CUM | | | | | | | | 17.12 | | | | | | | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | 6.800 | 8.49 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80 | 6.700 | 8.49 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 81 | 6.600 | 8.48 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 82 | 6.500 | 8.48 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 83 | 6.400 | 8.48 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 84 | 6.300 | 8.48 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85 | 6.200 | 8.48 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 86 | 6.100 | 8.48 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87 | 6.000 | 8.48 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 88 | 5.900 | 8.48 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 89 | 5.800 | 8.48 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 5.700 | 8.47 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 91 | 5.600 | 8.47 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 92 | 5.500 | 8.47 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 93 | 5.400 | 8.47 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 94 | 5.300 | 8.47 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 95 | 5.200 | 8.47 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 96 | 5.100 | 8.47 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 97 | 5.000 | 8.47 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 98 | 4.900 | 8.47 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 99 | 4.800 | 8.46 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100 | 4.700 | 8.46 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 101 | 4.600 | 8.46 | 0.40 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 2.90 | 2.90 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 0.38 | 0.07 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 2.49 | | | 0.09 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | 6.800 | 22.42 | 3.74 | 1231.71 | 4079.56 | 7.90 | 17.17 | 0.00 | 17.17 | 0.00 | 6.15 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 80 | 6.700 | 22.42 | 3.77 | 1305.17 | 4332.95 | 7.91 | 16.10 | 0.00 | 16.10 | 0.00 | 5.86 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 81 | 6.600 | 22.42 | 3.79 | 1371.76 | 4562.69 | 7.94 | 15.20 | 0.00 | 15.20 | 0.00 | 5.60 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 82 | 6.500 | 22.42 | 3.81 | 1432.34 | 4771.66 | 7.97 | 14.45 | 0.00 | 14.45 | 0.00 | 5.37 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 83 | 6.400 | 22.42 | 3.83 | 1487.61 | 4962.29 | 8.00 | 13.80 | 0.00 | 13.80 | 0.00 | 5.16 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 84 | 6.300 | 22.42 | 3.86 | 1538.15 | 5136.63 | 8.04 | 13.26 | 0.00 | 13.26 | 0.00 | 4.98 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 85 | 6.200 | 22.42 | 3.88 | 1584.48 | 5296.40 | 8.08 | 12.79 | 0.00 | 12.79 | 0.00 | 4.82 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 86 | 6.100 | 22.42 | 3.90 | 1627.00 | 5443.04 | 8.12 | 12.39 | 0.00 | 12.39 | 0.00 | 4.67 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 87 | 6.000 | 22.42 | 3.92 | 1666.05 | 5577.69 | 8.15 | 12.04 | 0.00 | 12.04 | 0.00 | 4.54 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 88 | 5.900 | 22.42 | 3.95 | 1701.90 | 5701.28 | 8.19 | 11.74 | 0.00 | 11.74 | 0.00 | 4.41 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 89 | 5.800 | 22.42 | 3.97 | 1734.74 | 5814.41 | 8.23 | 11.49 | 0.00 | 11.49 | 0.00 | 4.31 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 90 | 5.700 | 22.42 | 3.99 | 1764.65 | 5917.42 | 8.26 | 11.27 | 0.00 | 11.27 | 0.00 | 4.21 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 91 | 5.600 | 22.42 | 4.01 | 1791.64 | 6010.23 | 8.29 | 11.08 | 0.00 | 11.08 | 0.00 | 4.12 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 92 | 5.500 | 22.42 | 4.04 | 1815.53 | 6092.27 | 8.32 | 10.92 | 0.00 | 10.92 | 0.00 | 4.03 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 93 | 5.400 | 22.42 | 4.06 | 1835.98 | 6162.25 | 8.34 | 10.80 | 0.00 | 10.80 | 0.00 | 3.96 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 94 | 5.300 | 22.42 | 4.08 | 1852.34 | 6217.87 | 8.35 | 10.70 | 0.00 | 10.70 | 0.00 | 3.89 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 95 | 5.200 | 22.42 | 4.10 | 1863.51 | 6255.23 | 8.35 | 10.65 | 0.00 | 10.65 | 0.00 | 3.83 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 96 | 5.100 | 22.42 | 4.13 | 1867.75 | 6268.07 | 8.34 | 10.64 | 0.00 | 10.64 | 0.00 | 3.78 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 97 | 5.000 | 22.42 | 4.15 | 1862.22 | 6246.39 | 8.31 | 10.71 | 0.00 | 10.71 | 0.00 | 3.74 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 98 | 4.900 | 22.42 | 4.17 | 1842.48 | 6174.31 | 8.23 | 10.89 | 0.00 | 10.89 | 0.00 | 3.71 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 99 | 4.800 | 22.42 | 4.19 | 1801.39 | 6026.54 | 8.11 | 11.24 | 0.00 | 11.24 | 0.00 | 3.69 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 100 | 4.700 | 22.42 | 4.22 | 1727.59 | 5762.68 | 7.89 | 11.87 | 0.00 | 11.87 | 0.00 | 3.70 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 101 | 4.600 | 22.42 | 4.24 | 1602.77 | 5317.72 | 7.54 | 12.96 | 0.00 | 12.96 | 0.00 | 3.74 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER - BC01 BAYOU CHAUVIN 120507 WATERSHED MODEL
REACH NO. 5 BC07 - BC09 BAYOU CHAUVIN 120507 WINTER PROJECTION 43% REDUCTION

********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | UPR RCH | 0.87740 | 22.42 | 4.24 | 1602.77 | 5317.72 | 7.54 | 12.96 | 0.00 | 12.96 | 0.00 | 3.74 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0.00 |
| EACH | INCR | 0.06347 | 22.42 | 4.20 | 2600.00 | 8800.00 | 4.00 | 10.80 | 0.00 | | | 2.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW m³/s | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME m³ | SURFACE AREA m² | X-SECT AREA m² | TIDAL PRISM m³ | TIDAL VELO m/s | DISPRSN m²/s | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | 4.60 | 4.50 | 0.94087 | 0.0 | 0.00708 | 0.16 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 64816.86 | 0.011 | 1.500 | 0.012 |
| 103 | 4.50 | 4.40 | 1.00433 | 0.0 | 0.00755 | 0.15 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 65837.93 | 0.011 | 1.500 | 0.012 |
| 104 | 4.40 | 4.30 | 1.06780 | 0.0 | 0.00803 | 0.14 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 66859.00 | 0.011 | 1.500 | 0.012 |
| TOT | | | | | | 0.46 | | | 39889.73 | 17017.80 | | | | | |
| AVG | | | | | 0.0075 | | 2.34 | 56.73 | | | 132.97 | | | | |
| CUM | | | | | | 17.59 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | 4.500 | 8.46 | 0.31 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 4.15 | 4.15 | 4.15 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 4.51 | 0.00 | 0.00 | 0.00 | 0.00 |
| 103 | 4.400 | 8.46 | 0.31 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 4.15 | 4.15 | 4.15 | 0.10 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 5.19 | 0.00 | 0.00 | 0.00 | 0.00 |
| 104 | 4.300 | 8.46 | 0.31 | 0.07 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 4.15 | 4.15 | 4.15 | 0.09 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 5.87 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 0.30 | 0.07 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 3.56 | | | 0.09 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | 4.500 | 22.42 | 4.24 | 1417.40 | 4657.96 | 7.01 | 14.62 | 0.00 | 14.62 | 0.00 | 3.82 | 0.00 | 0.00 | 0.00 | 0.00 | 80.67 | 0.00 | 0. | 0.00 |
| 103 | 4.400 | 22.42 | 4.24 | 1129.39 | 3635.00 | 6.27 | 15.49 | 0.00 | 15.49 | 0.00 | 3.80 | 0.00 | 0.00 | 0.00 | 0.00 | 92.83 | 0.00 | 0. | 0.00 |
| 104 | 4.300 | 22.42 | 4.24 | 658.72 | 1965.12 | 5.05 | 15.45 | 0.00 | 15.45 | 0.00 | 3.66 | 0.00 | 0.00 | 0.00 | 0.00 | 105.00 | 0.00 | 0. | 0.00 |

STREAM SUMMARY
HEADWATER - BC01

BAYOU CHAUVIN 120507 WATERSHED MODEL
BAYOU CHAUVIN 120507 WINTER PROJECTION 43% REDUCTION

| | | | | | |
|---|---|---|---|---|---|
| TRAVEL TIME | = | 17.59 | DAYS | | |
| MAXIMUM EFFLUENT | = | 0.00 | PERCENT | | |
| FLOW | = | 0.16232 | TO | 1.06780 | m³/s |
| DISPERSION | = | 1.5000 | TO | 1.5000 | m²/s |
| VELOCITY | = | 0.00280 | TO | 0.00991 | m/s |
| DEPTH | = | 1.03 | TO | 2.34 | m |
| WIDTH | = | 25.30 | TO | 59.44 | m |
| BOD DECAY | = | 0.07 | TO | 0.09 | per day |
| NH3 DECAY | = | 0.00 | TO | 0.00 | per day |
| SOD | = | 0.76 | TO | 4.15 | g/m²/d |
| NH3 SOURCE | = | 0.00 | TO | 0.00 | g/m²/d |
| REAERATION | = | 0.31 | TO | 0.72 | per day |
| BOD SETTLING | = | 0.41 | TO | 0.42 | per day |
| NBOD DECAY | = | 0.09 | TO | 0.13 | per day |
| NBOD SETTLING | = | 0.05 | TO | 0.05 | per day |
| TEMPERATURE | = | 20.96 | TO | 22.42 | deg C |
| DISSOLVED OXYGEN | = | 5.05 | TO | 8.35 | mg/L |

.....EXECUTION COMPLETED

# Appendix D4 - Winter Justifications

| DATA TYPE 3 - PROGRAM CONSTANTS | | | |
|---|---|---|---|
| **CONSTANT NAME** | **VALUE** | **UNITS** | **DATA SOURCE** |
| KL MINIMUM | 0.7 | m/day | The minimum KL of 2.3 ft/day converted to 0.70 m/day. |
| INHIBITION CONTROL VALUE | 3 | | The water column dissolved oxygen demand is assumed to come primarily from facultative bacteria under anoxic conditions and SOD is not influenced by modeled dissolved oxygen levels in the upper water column. |
| K2 MAXIMUM | 25 | 1/day at 20 deg C | EPA Policy in the absence of a measured value. |
| HYDRAULIC CALCULATION METHOD | 2 | | The low slopes in this waterbody cause a substantial amount of water to be present during critical flow conditions. This method allows the model to predict a more accurate depth and width during low flow conditions. |
| SETTLING RATE UNITS | 2 | | By making the settling rate a velocity the rate becomes dependent upon the depth. |
| TIDE HEIGHT | 0.18 | m | Estimated tidal height for critical tidal flow. =0.6 / 3 per regs |
| SOD MAXIMUM RATE | 20 | $gm/m^2$-day | The maximum SOD allowable regardless of the quantity of oxygen demanding materials settled. |
| DISPERSION EQUATION | 3 | | Equation used to account for composite tidal and advective flows. |

| DATA TYPE 8 - REACH IDENTIFICATION DATA | | | | | | |
|---|---|---|---|---|---|---|
| **Reach** | **ID** | **Name** | **Upstream River Kilometer** | **Downstream River Kilometer** | **Element Length, meters** | **Data Source** |
| 1 | CH | BC01 to BC03 | 14.70 | 11.70 | 100.0000 | ARC MAP Calc. |
| 2 | CH | BC03 to BC05 | 11.70 | 9.30 | 100.0000 | ARC MAP Calc. |
| 3 | CH | BC05 to BC06 | 9.30 | 6.90 | 100.0000 | ARC MAP Calc. |
| 4 | CH | BC06 to BC07 | 6.90 | 4.60 | 100.0000 | ARC MAP Calc. |
| 5 | CH | BC07 to BC09 | 4.60 | 0.00 | 100.0000 | ARC MAP Calc. |

| | DATA TYPE 9 - ADVECTIVE HYDRAULIC COEFFICIENTS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Reach | Name | Width Coeff. "a" | Width Exp. "b" | Width Const. "c" | Data Source | Depth Coeff. "d" | Depth Exp. "e" | Depth Const. "f" | Data Source |
| 1 | BC01 to BC03 | 0 | 0.1 | 25.512 | BC03 | 0 | 0.1 | 1.164 | BC03 |
| 2 | BC03 to BC05 | 0 | 0.1 | 25.298 | BC05 | 0 | 0.1 | 1.033 | BC05 |
| 3 | BC05 to BC06 | 0 | 0.1 | 33.528 | BC06 | 0 | 0.1 | 1.036 | BC06 |
| 4 | BC06 to BC07 | 0 | 0.1 | 59.436 | BC07 | 0 | 0.1 | 1.838 | BC07 |
| 5 | BC07 to BC09 | 0 | 0.1 | 56.726 | BC09 | 0 | 0.1 | 2.344 | BC09 |

| DATA TYPE 10 - DISPERSIVE HYDRAULIC COEFFICIENTS | | | | | | |
|---|---|---|---|---|---|---|
| Reach | Tidal Range | a | Data Source | b | c | d |
| 1 | 1.0 | 1.5 | Calibration | 0.833 | 0.0 | 1.0 |
| 2 | 1.0 | 1.5 | Calibration | 0.833 | 0.0 | 1.0 |
| 3 | 1.0 | 1.5 | Calibration | 0.833 | 0.0 | 1.0 |
| 4 | 1.0 | 1.5 | Calibration | 0.833 | 0.0 | 1.0 |
| 5 | 1.0 | 1.5 | Calibration | 0.833 | 0.0 | 1.0 |

| | DATA TYPE 11 - INITIAL CONDITIONS | | | | | | |
|---|---|---|---|---|---|---|---|
| Reach | Name | Temp, deg C | DO, mg/l | Sal, ppt | Data Source | Chlorophyll a | Data Source |
| 1 | BC01 to BC03 | 20.96 | 4.00 | 0.71 | Temp - WQN 345 90th Percentile Winter Temp, DO - Numerical Criteria, Salinity - Average BC01,BC02, BC03 Continuous Monitor | 60.00 | Calibration |
| 2 | BC03 to BC05 | 20.96 | 4.00 | 1.21 | Temp - WQN 345 90th Percentile Winter Temp, DO - Numerical Criteria, Salinity - BC03 Continuous Monitor | 36.20 | BC03 |
| 3 | BC05 to BC06 | 20.96 | 4.00 | 3.47 | Temp - WQN 345 90th Percentile Winter Temp, DO - Numerical Criteria, Salinity - BC06 Continuous Monitor | 87.70 | BC05 |
| 4 | BC06 to BC07 | 22.42 | 4.00 | 3.72 | Temp - WQN 346 90th Percentile Winter Temp, DO - Numerical Criteria, Salinity - Average BC06, BC07 Continuous Monitor | 68.50 | BC07 |
| 5 | BC07 to BC09 | 22.42 | 4.00 | 4.24 | Temp - WQN 346 90th Percentile Winter Temp, DO - Numerical Criteria, Salinity - Average BC07, BC09 Continuous Monitor | 68.50 | BC07 |

| | | DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS | | | |
|---|---|---|---|---|---|
| **REACH** | **NAME** | **K2 OPT** | **Data Source** | **BKGRND SOD, gmO2/m2/day at 20 deg C** | **Data Source** |
| 1 | BC01 to BC03 | 11 | Texas Equation | 12.47 | 43% Reduction Man-made Loading |
| 2 | BC03 to BC05 | 11 | Texas Equation | 0.71 | 43% Reduction Man-made Loading |
| 3 | BC05 to BC06 | 11 | Texas Equation | 0.71 | 43% Reduction Man-made Loading |
| 4 | BC06 to BC07 | 11 | Texas Equation | 2.49 | 43% Reduction Man-made Loading |
| 5 | BC07 to BC09 | 11 | Texas Equation | 3.56 | 43% Reduction Man-made Loading |

| | | DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS | | | |
|---|---|---|---|---|---|
| **REACH** | **NAME** | **Aerobic BOD1 Dec Rate (1/day)** | **Data Source** | **BOD1 SETT RATE (1/day)** | **Data Source** |
| 1 | BC01 to BC03 | 0.0780 | Average(BC01, BC02, BC03) | 0.400 | Calibration |
| 2 | BC03 to BC05 | 0.0699 | Average(BC03, BC05) | 0.400 | Calibration |
| 3 | BC05 to BC06 | 0.0762 | BC05 | 0.400 | Calibration |
| 4 | BC06 to BC07 | 0.0671 | BC07 | 0.400 | Calibration |
| 5 | BC07 to BC09 | 0.0661 | Average(BC07, BC09) | 0.400 | Calibration |

| DATA TYPE 13 - NITROGEN AND PHOSPHORUS COEFFICIENTS | | | | | |
|---|---|---|---|---|---|
| **Reach** | **Name** | **NBOD decay rate, 1/day** | **Data Source** | **NBOD settling rate, 1/day** | **Data Source** |
| 1 | BC01 to BC03 | 0.1081 | Average(BC01, BC02, BC03) | 0.05 | Calibration |
| 2 | BC03 to BC05 | 0.1104 | Average(BC03, BC05) | 0.05 | Calibration |
| 3 | BC05 to BC06 | 0.1127 | BC05 | 0.05 | Calibration |
| 4 | BC06 to BC07 | 0.0875 | BC07 | 0.05 | Calibration |
| 5 | BC07 to BC09 | 0.0878 | Average(BC07, BC09) | 0.05 | Calibration |

| DATA TYPES 16 - INCREMENTAL DATA FOR TEMP AND CONS | | | | | | | DATA TYPES 16 - INCREMENTAL DATA FOR TEMP AND CONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Reach** | **Reach Name** | **Incr. Ouflow, m3** | **Incr. Inflow, m3** | **Data Source** | **Temp, °C** | **Salinity ppt** | **Data Source** | **Chl** | **Cond** | **Data Source** |
| 1 | BC01 to BC03 | | 0.0787 | BC03 Estimated Flow - BC01 Estimated Flow | 20.96 | 0.7 | Temp - WQN 345 90th Percentile Winter Temp, Salinity - Average BC01,BC02, BC03 Continuous Monitor | 1000 | 2800 | Calibration |
| 2 | BC03 to BC05 | | 0.0205 | 1/2 (BC06 Estimated Flow - BC03 Estimated Flow) | 20.96 | 1.2 | Temp - WQN 345 90th Percentile Winter Temp, Salinity - BC03 Continuous Monitor | 2000 | 3800 | Calibration |
| 3 | BC05 to BC06 | | 0.0205 | 1/2 (BC06 Estimated Flow - BC03 Estimated Flow) | 20.96 | 3.5 | Temp - WQN 345 90th Percentile Winter Temp, Salinity - BC06 Continuous Monitor | 2600 | 8800 | Calibration |
| 4 | BC06 to BC07 | | 0.5980 | BC07 Estimated Flow - BC06 Estimated Flow | 22.42 | 3.7 | Temp - WQN 346 90th Percentile Winter Temp, Salinity - Average BC06, BC07 Continuous Monitor | 2600 | 8800 | Calibration |
| 5 | BC07 to BC09 | | 0.1904 | BC09 Estimated Flow - BC07 Estimated Flow | 22.42 | 4.2 | Temp - WQN 346 90th Percentile Winter Temp, Salinity - Average BC07, BC09 Continuous Monitor | 2600 | 8800 | Calibration |

| DATA TYPES 17 - INCREMENTAL DATA FOR DO, BOD, AND NITROGEN | | | | | |
|---|---|---|---|---|---|
| **Reach** | **Reach Name** | **DO, mg/l** | **CBOD, mg/l** | **NBOD, mg/l** | **Data Source** |
| 1 | BC01 to BC03 | 4.00 | 7.12 | 1.79 | DO - Numerical Criteria, CBOD and NBOD - 43% Reduction in loading |
| 2 | BC03 to BC05 | 4.00 | 9.93 | 2.03 | DO - Numerical Criteria, CBOD and NBOD - 43% Reduction in loading |
| 3 | BC05 to BC06 | 4.00 | 11.92 | 2.52 | DO - Numerical Criteria, CBOD and NBOD - 43% Reduction in loading |
| 4 | BC06 to BC07 | 4.00 | 11.08 | 2.54 | DO - Numerical Criteria, CBOD and NBOD - 43% Reduction in loading |
| 5 | BC07 to BC09 | 4.00 | 10.8000 | 2.51 | DO - Numerical Criteria, CBOD and NBOD - 43% Reduction in loading |

| DATA TYPE 18 - INCREMENTAL DATA FOR CHL A | | | |
|---|---|---|---|
| **Reach** | **Reach Name** | **Chlorophyll a** | **Data Source** |
| 1 | BC01 to BC03 | 60 | Calibration |
| 2 | BC03 to BC05 | 36.2 | BC03 |
| 3 | BC05 to BC06 | 87.7 | BC05 |
| 4 | BC06 to BC07 | 68.5 | BC07 |
| 5 | BC07 to BC09 | 68.5 | BC07 |

| DATA TYPE 19 - NONPOINT SOURCES | | | | | |
|---|---|---|---|---|---|
| **Reach** | **Reach Name** | **Length of Reach, km** | **UCBOD, kg/day** | **NBOD, kg/day** | **Data Source** |
| 1 | BC01 to BC03 | 3.00 | 855.00 | 64.13 | 43% Reduction in loading |
| 2 | BC03 to BC05 | 2.40 | 2280.00 | 285.00 | 43% Reduction in loading |
| 3 | BC05 to BC06 | 2.40 | 712.50 | 71.25 | 43% Reduction in loading |
| 4 | BC06 to BC07 | 2.30 | 1068.75 | 106.88 | 43% Reduction in loading |
| 5 | BC07 to BC09 | 4.60 | 1068.75 | 106.88 | 43% Reduction in loading |

| DATA TYPES 20 - HEADWATER DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Headwater Name** | **Element No.** | **Logical Unit Number** | **Headwater Flow, cms** | **Temp, deg C** | **Salinity** | **Chlorides** | **Conductivity** | **Data Source** |
| Headwater 1 | 1 | 1 | 0.1597 | 20.96 | 0.2 | 137 | 865.30 | Flow - Estimated flow from critical tidal flow, Temp - 90th Percentile Winter Temp for WQN 345, Salinity & Conductivity - BC01 Insitu, Chlorides - BC01 Lab Data |

| DATA TYPES 21 - HEADWATER DATA FOR DO, BOD, AND NITROGEN | | | | |
|---|---|---|---|---|
| **Headwater Name** | **Dissolved Oxygen, mg/L** | **CBOD, mg/l** | **NBOD, mg/l** | **Data Source** |
| Headwater 1 | 8.03 | 6.37 | 1.93 | DO - Winter 90% DO Sat for WQN Site 1162, CBOD and NBOD - 75% Reduction in Man-Made Loading |

| DATA TYPES 27 - LOWER BOUNDARY CONDITIONS | | | |
|---|---|---|---|
| **Parameter** | **Value** | **Units** | **Data Source** |
| TEMPERATURE | 22.4200 | $^{O}C$ | 90th Percentile Winter Temperature for WQN Site 346 |
| SALINITY | 4.5100 | ppt | BC09 Continous Monitoring |
| CHLORIDES | 2274.0000 | ppm | BC09 Lab Data |
| CONDUCTIVITY | 7601.0000 | umhos/cm | BC09 Insitu |
| DISSOLVED OXYGEN | 4.0000 | mg/L | Numerical Criteria |
| CBOD | 14.7550 | mg/L | BC09 Lab Data |
| CHLOROPHYLL A | 105.0000 | ug/L | BC09 Lab Data |
| NBOD | 3.4853 | mg/L | BC09 Lab Data |

# Appendix E - Projection Model Development

# Appendix E1 – Summer Loading

Bayou Chauvin Watershed TMDL

Subsegment 120507

Originated: September 29, 2006

Revised: May 11, 2007

## Summer Projection, Non-Point Benthic Load Input and TMDL Calculations:

**Modeled stream or water body** **BAYOU CHAUVIN (SUBSEGMENT 120507)**

Shaded cells are input values for calcu SAFETY (MOS) (%) = [MOG + MOU] = **20%**

Values to be used in the projection models.

| | Calibration Model Values | | | | | | | | | | | | | | Reduced Man-Made Loads | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reach Number and Description | Total Non-Point UCBOD | Total Non-Point UNBOD | SOD @ 20°C | Reach Length | Proj. Model Avg. Reach Width | Proj. Temp. | Background Benthic Load | Effective Background Benthic Load | Man-Made Benthic Load | Background percentage reduction | Percentage Reduction of man-made sources | Reduced Background Benthic Load | Reduced Man-Made Benthic Load | Reduced TCBL adjusted for MOS | Reduced UCBOD1 Load | Reduced Total UCBOD Load | Reduced UNBOD Load | Reduced SOD Load at Projection Temp. |
| | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | Kilo-meters | Meters | (deg Celcius) | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | % | % | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | kg $O_2$/day | kg $O_2$/day | kg $O_2$/day | kg $O_2$/day |
| REACH 1 - BC01 TO BC03 | 15.679 | 1.176 | 17.50 | 3.00 | 25.51 | 28.40 | 0.00 | 0.00 | 34.35 | 0% | 43% | 0.00 | 19.58 | 24.48 | 684.00 | 684.00 | 51.30 | 1295.73 |
| REACH 2 - BC03 TO BC05 | 52.705 | 6.588 | 1.00 | 2.40 | 25.30 | 28.40 | 0.00 | 0.00 | 60.29 | 0% | 43% | 0.00 | 34.37 | 42.96 | 1824.00 | 1824.00 | 228.00 | 58.74 |
| REACH 3 - BC05 TO BC06 | 12.427 | 1.243 | 1.00 | 2.40 | 33.53 | 28.40 | 0.00 | 0.00 | 14.67 | 0% | 43% | 0.00 | 8.36 | 10.45 | 570.00 | 570.00 | 57.00 | 77.84 |
| REACH 4 - BC06 TO BC07 | 10.973 | 1.097 | 3.50 | 2.30 | 59.44 | 30.17 | 0.00 | 0.00 | 15.57 | 0% | 43% | 0.00 | 8.87 | 11.09 | 855.00 | 855.00 | 85.50 | 517.45 |
| REACH 5 - BC07 TO BC09 | 5.748 | 0.575 | 5.00 | 4.60 | 56.73 | 30.17 | 0.00 | 0.00 | 11.32 | 0% | 43% | 0.00 | 6.45 | 8.07 | 855.00 | 855.00 | 85.50 | 1411.01 |
| | | | | | | | | | | | | | | | | | | |
| **Sub-Total** | | | | | | | | 0.00 | 136.21 | | | 0.00 | 77.64 | 97.05 | 4788.00 | 4788.00 | 507.30 | 3360.77 |

## Summer Projection, Non-Point Benthic Load Input and TMDL Calculations:

**Modeled stream or water body** **BAYOU CHAUVIN (SUBSEGMENT 120507)**

Shaded cells are input values for calcu SAFETY (MOS) (%) = [MOG + MOU] = **20%**

Values to be used in the projection models.

| | Calibration Model Values | | | | | | | | | | | | | Projected Model Loads | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reach Number and Description | Total Non-Point UCBOD | Total Non-Point UNBOD | SOD @ 20°C | Reach Length | Proj. Model Avg. Reach Width | Proj. Temp. | Background Benthic Load | Effective Background Benthic Load | Man-Made Benthic Load | Background percentage reduction | Percentage Reduction of man-made sources | Benthic Phosphorus adjusted for % reduction | SOD @ 20°C | Total Non-Point UCBOD INPUTS | Non-Point UNBOD INPUTS | **Total MOS at Projection Temp.** | **Non-Point UCBOD LA** | **Non-Point UNBOD LA** | **SOD LA at Projection Temp.** |
| | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | Kilo-meters | Meters | (deg Celcius) | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | % | % | g / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | kg $O_2$/day | kg $O_2$/day | kg $O_2$/day | kg $O_2$/day | kg $O_2$/day | kg $O_2$/day |
| REACH 1 - BC01 TO BC03 | 15.679 | 1.176 | 17.50 | 3.00 | 25.51 | 28.40 | 0.00 | 0.00 | 34.35 | 0% | 43% | 0.000 | 12.469 | 855.000 | 64.125 | 507.76 | 684.00 | 51.30 | 1295.73 |
| REACH 2 - BC03 TO BC05 | 52.705 | 6.588 | 1.00 | 2.40 | 25.30 | 28.40 | 0.00 | 0.00 | 60.29 | 0% | 43% | 0.000 | 0.713 | 2280.000 | 285.000 | 527.68 | 1824.00 | 228.00 | 58.74 |
| REACH 3 - BC05 TO BC06 | 12.427 | 1.243 | 1.00 | 2.40 | 33.53 | 28.40 | 0.00 | 0.00 | 14.67 | 0% | 43% | 0.000 | 0.713 | 712.500 | 71.250 | 176.21 | 570.00 | 57.00 | 77.84 |
| REACH 4 - BC06 TO BC07 | 10.973 | 1.097 | 3.50 | 2.30 | 59.44 | 30.17 | 0.00 | 0.00 | 15.57 | 0% | 43% | 0.000 | 2.494 | 1068.750 | 106.875 | 364.49 | 855.00 | 85.50 | 517.45 |
| REACH 5 - BC07 TO BC09 | 5.748 | 0.575 | 5.00 | 4.60 | 56.73 | 30.17 | 0.00 | 0.00 | 11.32 | 0% | 43% | 0.000 | 3.563 | 1068.750 | 106.875 | 587.88 | 855.00 | 85.50 | 1411.01 |
| | | | | | | | | | | | | | | | | | | | |
| **Sub-Total** | | | | | | | | 0.00 | 136.21 | | | 0.00 | | 5985.00 | 634.13 | 2164.02 | **4788.00** | **507.30** | **3360.77** |

Bayou Chauvin Watershed TMDL

# Subsegment 120507

Originated: September 29, 2006

Revised: May 11, 2007

## Summer TMDL calculations and Projection model calculations for Headwater / Tributary loads:

**BAYOU CHAUVIN (SUBSEGMENT 120507)**

| | | |
|---|---|---|
| Shaded cells are input values for calculations. | MARGIN OF SAFETY (MOS) (%) = | 20% |
| Values to be used in the projection models. | If modeling the nitrogen series, be sure that columns "H | |

**Headwater / Tributary Load Determinations**

| | FROM CALIBRATION | | | | | BACKGROUND VALUES | | | | | | educed Background Loa | educed Man-Made Loa | | | PROJECTION VALUES | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Headwater / Tributary Description and Reach # | Seasonal Critical flow (cms) | UCBOD1 (mg $O_2$/L) | Total UCBOD (mg $O_2$/L) | UNBOD (mg $O_2$/L) | Total UNBOD (mg $O_2$/L) | Background UCBOD1 conc. (mg $O_2$/L) | Background UCBOD conc. (mg $O_2$/L) | Background UNBOD conc. (mg $O_2$/L) | Background UNBOD conc. (mg $O_2$/L) | Background % Reduction | Percent reduction of Man-Made loads | Total reduced Background UCBOD load (kg $O_2$/day) | Reduced Background UNBOD load (kg $O_2$/day) | Reduced UCBOD load (kg $O_2$/day) | Reduced UNBOD load (kg $O_2$/day) | Projection UCBOD input conc. (mg $O_2$/L) | Projection UNBOD input conc. (mg $O_2$/L) | **Total MOS (kg $O_2$/day)** | **Total CBOD LA (kg $O_2$/day)** | **Total NBOD LA (kg $O_2$/day)** |
| Headwater | 0.15970 | 8.95 | 8.95 | 2.70 | 2.70 | | 0.00 | | 0.00 | 0% | 43% | 0.00 | 0.00 | 70.37 | 21.27 | 6.37 | 1.93 | **22.91** | **70.37** | **21.27** |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

## Summer TMDL calculations and Projection model calculations for Incremental loads:

**BAYOU CHAUVIN (SUBSEGMENT 120507)**

| | | |
|---|---|---|
| Shaded cells are input values for calculations. | If modeling the nitrogen series, be sure that columns "H" & "R" | |
| Values to be used in the projection models. | MARGIN OF SAFETY (MOS) (%) = | 20% |

***Incremental Load Determinations:***

| | Calibration Load Determinations | | | | | Background Loading Concentrations | | | | | Reduced Background Loads | | Reduced Man-Made Loads | | | Projection Model Input determination | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reach Description and # | Projection Flow (cms) | Calb. UCBOD1 conc. (mg $O_2$/L) | Calb. Total UCBOD conc. (mg $O_2$/L) | Calb. UNBOD conc. (mg $O_2$/L) | Calb. Total UNBOD conc. (mg $O_2$/L) | Background Conc. UCBOD1 (mg $O_2$/L) | Background Conc. Total UCBOD (mg $O_2$/L) | Background UNBOD (mg $O_2$/L) | Background Conc. Total UNBOD (mg $O_2$/L) | Background % Reduction | Reduced Background Total UCBOD (kg $O_2$/day) | Reduced Background UNBOD (kg $O_2$/day) | Actual % Reduction of Man-Made Loads | Reduced Total UCBOD Load (kg $O_2$/day) | Reduced UNBOD Load (kg $O_2$/day) | Projection Total UCBOD conc. (mg $O_2$/L) | Projection UNBOD conc. (mg $O_2$/L) | **Total MOS (kg $O_2$/day)** | **Total CBOD LA (kg $O_2$/day)** | **Total NBOD LA (kg $O_2$/day)** |
| REACH 1 - BC01 TO BC03 | 0.07870 | 10.00 | 10.00 | 2.51 | 2.51 | | 0.00 | | 0.00 | 0% | 0.00 | 0.00 | 43% | 38.74 | 9.75 | 7.12 | 1.79 | 12.12 | 38.74 | 9.75 |
| REACH 2 - BC03 TO BC05 | 0.02050 | 13.94 | 13.94 | 2.86 | 2.86 | | 0.00 | | 0.00 | 0% | 0.00 | 0.00 | 43% | 14.08 | 2.88 | 9.93 | 2.03 | 4.24 | 14.08 | 2.88 |
| REACH 3 - BC05 TO BC06 | 0.02050 | 16.73 | 16.73 | 3.53 | 3.53 | | 0.00 | | 0.00 | 0% | 0.00 | 0.00 | 43% | 16.89 | 3.56 | 11.92 | 2.52 | 5.11 | 16.89 | 3.56 |
| REACH 4 - BC06 TO BC07 | 0.59800 | 15.55 | 15.55 | 3.57 | 3.57 | | 0.00 | | 0.00 | 0% | 0.00 | 0.00 | 43% | 457.92 | 105.19 | 11.08 | 2.54 | 140.78 | 457.92 | 105.19 |
| REACH 5 - BC07 TO BC09 | 0.19040 | 15.15 | 15.15 | 3.53 | 3.53 | | 0.00 | | 0.00 | 0% | 0.00 | 0.00 | 43% | 142.08 | 33.09 | 10.80 | 2.51 | 43.79 | 142.08 | 33.09 |
| | | | | | | | | | | | | | | | | | | | | |
| **Sub-Total benthic loading** | | | | | | | | | | | **0.00** | **0.00** | | **669.71** | **154.48** | | | **206.05** | **669.71** | **154.48** |

# Appendix E2 – Winter Loading

Bayou Chauvin Watershed TMDL

Subsegment 120507

Originated: September 29, 2006

Revised: May 11, 2007

## Winter Projection, Non-Point Benthic Load Input and TMDL Calculations:

**Modeled stream or water body** **BAYOU CHAUVIN (SUBSEGMENT 120507)**

Shaded cells are input values for calcu ARGIN OF SAFETY (MOS) (%) = [MOG + MOU] = **20%**

Values to be used in the projection models.

| | Calibration Model Values | | | | | | | | | | | | | | | Reduced Man-Made Loads | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reach Number and Description | Total Non-Point UCBOD | Total Non-Point UNBOD | SOD @ 20°C | Total Calb. Benthic Load (TCBL) | Reach Length | Proj. Model Avg. Reach Width | Proj. Temp. | Background Benthic Load | Effective Background Benthic Load | Man-Made Benthic Load | Background percentage reduction | Percentage Reduction of man-made sources | Reduced Background Benthic Load | Reduced Man-Made Benthic Load | Reduced TCBL adjusted for MOS | Reduced Total UCBOD Load | Reduced UNBOD Load | Reduced SOD Load at Projection Temp. |
| | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | Kilo-meters | Meters | (deg Celcius) | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | % | % | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | kg $O_2$/day | kg $O_2$/day | kg $O_2$/day |
| REACH 1 - BC01 TO BC03 | 15.679 | 1.176 | 17.50 | 34.355 | 3.00 | 25.51 | 20.96 | 0.00 | 0.00 | 34.35 | 0% | 43% | 0.00 | 19.58 | 24.48 | 684.00 | 51.30 | 811.03 |
| REACH 2 - BC03 TO BC05 | 52.705 | 6.588 | 1.00 | 60.293 | 2.40 | 25.30 | 20.96 | 0.00 | 0.00 | 60.29 | 0% | 43% | 0.00 | 34.37 | 42.96 | 1824.00 | 228.00 | 36.76 |
| REACH 3 - BC05 TO BC06 | 12.427 | 1.243 | 1.00 | 14.670 | 2.40 | 33.53 | 20.96 | 0.00 | 0.00 | 14.67 | 0% | 43% | 0.00 | 8.36 | 10.45 | 570.00 | 57.00 | 48.72 |
| REACH 4 - BC06 TO BC07 | 10.973 | 1.097 | 3.50 | 15.570 | 2.30 | 59.44 | 22.42 | 0.00 | 0.00 | 15.57 | 0% | 43% | 0.00 | 8.87 | 11.09 | 855.00 | 85.50 | 317.62 |
| REACH 5 - BC07 TO BC09 | 5.748 | 0.575 | 5.00 | 11.323 | 4.60 | 56.73 | 22.42 | 0.00 | 0.00 | 11.32 | 0% | 43% | 0.00 | 6.45 | 8.07 | 855.00 | 85.50 | 866.11 |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| **Sub-Total** | | | | | | | | | 0.00 | 136.21 | | | 0.00 | 77.64 | 97.05 | 4788.00 | 507.30 | 2080.24 |

Bayou Chauvin Watershed TMDL

Subsegment 120507

Originated: September 29, 2006

Revised: May 11, 2007

## Winter Projection, Non-Point Benthic Load Input and TMDL Calculations:

**Modeled stream or water body** **BAYOU CHAUVIN (SUBSEGMENT 120507)**

Shaded cells are input values for calcu ARGIN OF SAFETY (MOS) (%) = [MOG + MOU] = **20%**

Values to be used in the projection models.

| | Calibration Model Values | | | | | | | | | | | | Projected Model Loads | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reach Number and Description | Total Non-Point UCBOD | Total Non-Point UNBOD | SOD @ 20°C | Total Calb. Benthic Load (TCBL) | Reach Length | Proj. Model Avg. Reach Width | Proj. Temp. | Background Benthic Load | Effective Background Benthic Load | Man-Made Benthic Load | Background percentage reduction | Percentage Reduction of man-made sources | SOD @ 20°C | Total Non-Point UCBOD INPUTS | Non-Point UNBOD INPUTS | **Total MOS at Projection Temp.** | **Non-Point UCBOD LA** | **Non-Point UNBOD LA** | **SOD LA at Projection Temp.** |
| | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | Kilo-meters | Meters | (deg Celcius) | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | g $O_2$ / [($m^2$)(day)] | % | % | g $O_2$ / [($m^2$)(day)] | kg $O_2$/day | kg $O_2$/day | kg $O_2$/day | kg $O_2$/day | kg $O_2$/day | kg $O_2$/day |
| REACH 1 - BC01 TO BC03 | 15.679 | 1.176 | 17.50 | 34.355 | 3.00 | 25.51 | 20.96 | 0.00 | 0.00 | 34.35 | 0% | 43% | 12.469 | 855.000 | 64.125 | 386.58 | 684.00 | 51.30 | 811.03 |
| REACH 2 - BC03 TO BC05 | 52.705 | 6.588 | 1.00 | 60.293 | 2.40 | 25.30 | 20.96 | 0.00 | 0.00 | 60.29 | 0% | 43% | 0.713 | 2280.000 | 285.000 | 522.19 | 1824.00 | 228.00 | 36.76 |
| REACH 3 - BC05 TO BC06 | 12.427 | 1.243 | 1.00 | 14.670 | 2.40 | 33.53 | 20.96 | 0.00 | 0.00 | 14.67 | 0% | 43% | 0.713 | 712.500 | 71.250 | 168.93 | 570.00 | 57.00 | 48.72 |
| REACH 4 - BC06 TO BC07 | 10.973 | 1.097 | 3.50 | 15.570 | 2.30 | 59.44 | 22.42 | 0.00 | 0.00 | 15.57 | 0% | 43% | 2.494 | 1068.750 | 106.875 | 314.53 | 855.00 | 85.50 | 317.62 |
| REACH 5 - BC07 TO BC09 | 5.748 | 0.575 | 5.00 | 11.323 | 4.60 | 56.73 | 22.42 | 0.00 | 0.00 | 11.32 | 0% | 43% | 3.563 | 1068.750 | 106.875 | 451.65 | 855.00 | 85.50 | 866.11 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| **Sub-Total** | | | | | | | | | 0.00 | 136.21 | | | | 5985.00 | 634.13 | 1843.88 | **4788.00** | **507.30** | **2080.24** |

**Winter TMDL calculations and Projection model calculations for Headwater / Tributary loads:**

**BAYOU CHAUVIN (SUBSEGMENT 120507)**

Shaded cells are input values for calculations. MARGIN OF SAFETY (MOS) (%) = **20%**

Values to be used in the projection models. If modeling the nitrogen series, be sure that columns "H

**Headwater / Tributary Load Determinations**

| | FROM CALIBRATION | | | | | BACKGROUND VALUES | | | | | | educed Background Loa | educed Man-Made Loa | | | PROJECTION VALUES | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Headwater / Tributary Description and Reach # | Seasonal Critical flow (cms) | UCBOD1 (mg $O_2$/L) | Total UCBOD (mg $O_2$/L) | UNBOD (mg $O_2$/L) | Total UNBOD (mg $O_2$/L) | Background UCBOD1 conc. (mg $O_2$/L) | Background UCBOD conc. (mg $O_2$/L) | Background UNBOD conc. (mg $O_2$/L) | Background UNBOD conc. (mg $O_2$/L) | Background % Reduction | Percent reduction of Man-Made loads | Total reduced Background UCBOD load (kg $O_2$/day) | Reduced Background UNBOD load (kg $O_2$/day) | Reduced UCBOD load (kg $O_2$/day) | Reduced UNBOD load (kg $O_2$/day) | Projection UCBOD input conc. (mg $O_2$/L) | Projection UNBOD input conc. (mg $O_2$/L) | **Total MOS (kg $O_2$/day)** | **Total CBOD LA (kg $O_2$/day)** | **Total NBOD LA (kg $O_2$/day)** |
| Headwater | 0.15970 | 8.95 | 8.95 | 2.70 | 2.70 | | 0.00 | | 0.00 | 0% | 43% | 0.00 | 0.00 | 70.37 | 21.27 | 6.37 | 1.93 | **22.91** | **70.37** | **21.27** |
| | | | | | | | | | | 0% | 43% | | | | | | | | | |
| | | | | | | | | | | 0% | 43% | | | | | | | | | |
| **SUB-TOTAL TMDL LOADING** | | | | | | | | | | | | **0.00** | **0.00** | **70.37** | **21.27** | | | **22.91** | **70.37** | **21.27** |

Bayou Chauvin Watershed TMDL

# Subsegment 120507

Originated: September 29, 2006

Revised: May 11, 2007

**Winter TMDL calculations and Projection model calculations for Incremental loads:**

**BAYOU CHAUVIN (SUBSEGMENT 120507)**

| | | |
|---|---|---|
| Shaded cells are input values for calculations. | If modeling the nitrogen series, be sure that columns "H" & "R" | |
| Values to be used in the projection models. | MARGIN OF SAFETY (MOS) (%) = | **20%** |

***Incremental Load Determinations:***

| | Calibration Load Determinations | | | | | Background Loading Concentrations | | | | | Reduced Background Loads | | Reduced Man-Made Loads | | | Projection Model Input determination: | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reach Description and # | Projection Flow (cms) | Calb. UCBOD1 conc. (mg $O_2$/L) | Calb. Total UCBOD conc. (mg $O_2$/L) | Calb. UNBOD conc. (mg $O_2$/L) | Calb. Total UNBOD conc. (mg $O_2$/L) | Background Conc. UCBOD1 (mg $O_2$/L) | Background Conc. Total UCBOD (mg $O_2$/L) | Background UNBOD (mg $O_2$/L) | Background Conc. Total UNBOD (mg $O_2$/L) | Background % Reduction | Reduced Background Total UCBOD (kg $O_2$/day) | Reduced Background UNBOD (kg $O_2$/day) | Actual % Reduction of Man-Made Loads | Reduced Total UCBOD Load (kg $O_2$/day) | Reduced UNBOD Load (kg $O_2$/day) | Projection Total UCBOD conc. (mg $O_2$/L) | Projection UNBOD conc. (mg $O_2$/L) | **Total MOS (kg $O_2$/day)** | **Total CBOD LA (kg $O_2$/day)** | **Total NBOD LA (kg $O_2$/day)** |
| REACH 1 - BC01 TO BC03 | 0.07870 | 10.00 | 10.00 | 2.51 | 2.51 | | 0.00 | | 0.00 | 0% | 0.00 | 0.00 | 43% | 38.74 | 9.75 | 7.12 | 1.79 | 12.12 | 38.74 | 9.75 |
| REACH 2 - BC03 TO BC05 | 0.02050 | 13.94 | 13.94 | 2.86 | 2.86 | | 0.00 | | 0.00 | 0% | 0.00 | 0.00 | 43% | 14.08 | 2.88 | 9.93 | 2.03 | 4.24 | 14.08 | 2.88 |
| REACH 3 - BC05 TO BC06 | 0.02050 | 16.73 | 16.73 | 3.53 | 3.53 | | 0.00 | | 0.00 | 0% | 0.00 | 0.00 | 43% | 16.89 | 3.56 | 11.92 | 2.52 | 5.11 | 16.89 | 3.56 |
| REACH 4 - BC06 TO BC07 | 0.59800 | 15.55 | 15.55 | 3.57 | 3.57 | | 0.00 | | 0.00 | 0% | 0.00 | 0.00 | 43% | 457.92 | 105.19 | 11.08 | 2.54 | 140.78 | 457.92 | 105.19 |
| REACH 5 - BC07 TO BC09 | 0.19040 | 15.15 | 15.15 | 3.53 | 3.53 | | 0.00 | | 0.00 | 0% | 0.00 | 0.00 | 43% | 142.08 | 33.09 | 10.80 | 2.51 | 43.79 | 142.08 | 33.09 |
| | | | | | | | | | | | | | | | | | | | | |
| **Sub-Total benthic loading** | | | | | | | | | | | **0.00** | **0.00** | | **669.71** | **154.48** | | | **206.05** | **669.71** | **154.48** |

# Appendix E3 – Critical Flow Calculations

| Bayou Chauvin 120507 Estimated Calibration Flows | | | |
|---|---|---|---|
| **Site** | **Area ($ft^2$)** | **% Final Area** | **Estimated Flow (cms)** |
| BC01 | 214 | 0.1495 | 3.4604 |
| BC03 | 319.5 | 0.2232 | 5.1663 |
| BC05 | 281.3 | 0.1965 | 4.5478 |
| BC06 | 374.4 | 0.2616 | 6.0537 |
| BC07 | 1176 | 0.8217 | 19.0151 |
| BC09 | 1431 | 1.0000 | 23.1423 |

| Bayou Chauvin 120507 | | | |
|---|---|---|---|
| **Calibration Flow Input Values** | | | |
| **SITE** | **Source** | **Q (CMS)** | **Waterbody** |
| Headwater | BC01 Estimated Flow | 3.4604 | Bayou Chauvin |
| Incremental Reach 1 | BC03 Estimated Flow - BC01 Estimated Flow | 1.7059 | Bayou Chauvin |
| Incremental Reach 2 | 1/2 (BC06 Estimated Flow - BC03 Estimated Flow) | 0.4437 | Bayou Chauvin |
| Incremental Reach 3 | 1/2 (BC06 Estimated Flow - BC03 Estimated Flow) | 0.4437 | Bayou Chauvin |
| Incremental Reach 4 | BC07 Estimated Flow - BC06 Estimated Flow | 12.9614 | Bayou Chauvin |
| Incremental Reach 5 | BC09 Estimated Flow - BC07 Estimated Flow | 4.1272 | Bayou Chauvin |

| Bayou Chauvin 120507 Estimated Projection Flows | | | |
|---|---|---|---|
| **Site** | **Area ($ft^2$)** | **% Final Area** | **Estimated Flow (cms)** |
| BC01 | 214 | 0.1495 | 0.1597 |
| BC03 | 319.5 | 0.2232 | 0.2384 |
| BC05 | 281.3 | 0.1965 | 0.2098 |
| BC06 | 374.4 | 0.2616 | 0.2793 |
| BC07 | 1176 | 0.8217 | 0.8774 |
| BC09 | 1431 | 1.0000 | 1.0678 |

| Bayou Chauvin 120507 | | | |
|---|---|---|---|
| **Projection Flow Input Values** | | | |
| **Critical Tidal Flow = 37.71 cfs = 1.0678 cms** | | | |
| **SITE** | **Source** | **Q (CMS)** | **Waterbody** |
| Headwater | BC01 Estimated Flow | 0.1597 | Bayou Chauvin |
| Incremental Reach 1 | BC03 Estimated Flow - BC01 Estimated Flow | 0.0787 | Bayou Chauvin |
| Incremental Reach 2 | 1/2 (BC06 Estimated Flow - BC03 Estimated Flow) | 0.0205 | Bayou Chauvin |
| Incremental Reach 3 | 1/2 (BC06 Estimated Flow - BC03 Estimated Flow) | 0.0205 | Bayou Chauvin |
| Incremental Reach 4 | BC07 Estimated Flow - BC06 Estimated Flow | 0.5980 | Bayou Chauvin |
| Incremental Reach 5 | BC09 Estimated Flow - BC07 Estimated Flow | 0.1904 | Bayou Chauvin |

# Appendix F – Survey Data Measurements and Analysis Results

# Appendix F1 – Water Quality Data

## Bayou Chauvin 120507 Insitu

| SITE ID NUMBER | DEPTH (meters) | TEMPERATURE, deg C | pH, Standard Units | SPECIFIC CONDUCTANCE, umhos/cm | DISSOLVED OXYGEN PERCENT SATURATION (100% = 1) | DISSOLVED OXYGEN CONCENTRATION, mg/L | SALINITY, ug/L | SECCHI DISK DEPTH, centimeters |
|---|---|---|---|---|---|---|---|---|
| BC01 | 1 | 27.19 | 7.09 | 865.3 | 20.4 | 1.64 | 0.45 | |
| BC02 | 1 | 26.95 | 7.20 | 1321.0 | 38.1 | 3.03 | 0.70 | 18 |
| BC03 | 1 | 27.04 | 7.00 | 1679.0 | 15.0 | 1.18 | 0.89 | 18 |
| BC05 | 1 | 28.06 | 7.08 | 3528.0 | 45.1 | 3.47 | 1.85 | 30 |
| BC07 | 1 | 27.35 | 7.40 | 6833.0 | 43.7 | 3.34 | 3.80 | 18 |
| BC09 | 1 | 27.76 | 7.35 | 7601.0 | 37.9 | 2.91 | 4.24 | 18 |
| SL01 | 0.5 | 26.85 | 6.97 | 1304.0 | 25.1 | 1.99 | 0.69 | |
| SL02 | 0.5 | 25.95 | 6.83 | 1852.0 | 24.4 | 1.97 | 0.99 | |

## Bayou Chauvin 120507 Water Quality Summary

| SITE ID NUMBER | Ortho P | Chloride, Ion Chromatograph | Sulfate | Hardness | Alkalinity | Specific Conductance | Sodium | TOC | TP | TDS | TSS | Ammonia-Nitrogen | Nitrate+Nitrite Nitrogen | TKN | Calc Chl a |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BC01 | | 137 | 12.7 | 198 | 194 | 863 | 109 | 18.3 | 0.46 | 396 | 9.3 | 0.16 | ND | 1.12 | |
| BC02 | 1.64 | 312 | 21.1 | 231 | 154 | 1313 | 189 | 17.3 | 0.33 | 676 | 23 | ND | 0.05 | 1.34 | 45.1 |
| BC03 | | 362 | 18.1 | 221 | 127 | 1482 | 232 | 21.5 | 0.5 | 790 | 17 | ND | 0.06 | 1.57 | 36.2 |
| BC05 | 2.27 | 1234 | 92.5 | 447 | 119 | 3810 | 659 | 21.2 | 0.39 | 2022 | 27 | ND | 0.06 | 1.85 | 87.7 |
| BC07 | 1.03 | 2027 | 245 | 750 | 111 | 6730 | 1260 | 18.8 | 0.27 | 3704 | 28 | ND | 0.05 | 1.6 | 68.5 |
| BC09 | 0.69 | 2274 | 279 | 834 | 110 | 7480 | 1430 | 17.2 | 0.25 | 4240 | 39 | ND | 0.05 | 1.71 | 105 |
| LB01 | | 2729 | 304 | 913 | 107 | 7540 | 1580 | 17.6 | 0.22 | 4556 | 54 | ND | ND | 2.45 | 40.5 |
| SL01 | | 295 | 13.3 | 203 | 127 | 1240 | 194 | 25.1 | 0.48 | 722 | 20.7 | ND | 0.05 | 1.64 | |
| SL02 | | 504 | 13.3 | 240 | 122 | 1787 | 291 | 19.5 | 0.59 | 990 | 47 | ND | 0.05 | 2.06 | |

| Site | Lab ID | Type | Measured Parameter | Result | Units | Reference Method | Set Up Date | Read Date | Nitrate Sample Date |
|---|---|---|---|---|---|---|---|---|---|
| BC01 | AF19820 | FB | TSS | ND | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| BC01 | AF19820 | FB | TDS | ND | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| BC01 | AF19820 | FB | Alkalinity | ND | ppm | 310.1 | 9/11/2003 | 9/11/2003 | |
| BC01 | AF19820 | FB | Turbidity | ND | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| BC01 | AF19820 | FB | Specific Conductance | ND | umhos/cm | 120.1 | 9/11/2003 | 9/11/2003 | |
| BC01 | AF19820 | FB | True Color | ND | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| BC01 | AF19820 | FB | Chloride, Ion Chromatograph | ND | ppm | 300.0 | 9/27/2003 | 9/27/2003 | |
| BC01 | AF19820 | FB | Sulfate | ND | ppm | 300.0 | 9/26/2003 | 9/27/2003 | |
| BC01 | AF19821 | FB | Sodium | ND | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| BC01 | AF19822 | FB | Hardness | ND | ppm | 130.2 | 9/18/2003 | 9/18/2003 | |
| BC01 | AF19822 | FB | Nitrate+Nitrite Nitrogen | 0.06 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| BC01 | AF19822 | FB | TP | 0.05 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| BC01 | AF19822 | FB | TKN | 0.20 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| BC01 | AF19822 | FB | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/15/2003 | 9/15/2003 | |
| BC01 | AF19823 | FB | TOC | ND | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| BC01 | AF19824 | FB | pH, Ultimate BOD survey | 6.22 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| BC01 | AF19824 | FB | TOC (60 Day BOD) | ND | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| BC01 | AF19824 | FB | TKN (60 Day BOD) | ND | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| BC01 | AF19824 | FB | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| BC01 | AF19824 | FB | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| BC01 | AF19824 | FB | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/15/2003 |
| BC01 | AF19824 | FB | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| BC01 | AF19824 | FB | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| BC01 | AF19824 | FB | NO2NO3 - Reading 5 | ND | ppm | 353.2 | 10/20/2003 | 10/20/2003 | 9/22/2003 |
| BC01 | AF19824 | FB | NO2NO3 - Reading 6 | ND | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| BC01 | AF19824 | FB | NO2NO3 - Reading 7 | ND | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| BC01 | AF19824 | FB | NO2NO3 - Reading 8 | ND | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| BC01 | AF19824 | FB | NO2NO3 - Reading 9 | ND | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| BC01 | AF19824 | FB | NO2NO3 - Reading 10 | ND | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| BC01 | AF19824 | FB | NO2NO3 - Final | ND | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| BC01 | AF19824 | FB | Non-Filtered BOD 60 - Reading 1 | 0.0 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| BC01 | AF19824 | FB | Non-Filtered BOD 60 - Reading 2 | 0.1 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| BC01 | AF19824 | FB | Non-Filtered BOD 60 - Reading 3 | 0.1 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| BC01 | AF19824 | FB | Non-Filtered BOD 60 - Reading 4 | 0.1 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| BC01 | AF19824 | FB | Non-Filtered BOD 60 - Reading 5 | 0.2 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| BC01 | AF19824 | FB | Non-Filtered BOD 60 - Reading 6 | 0.2 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| BC01 | AF19824 | FB | Non-Filtered BOD 60 - Reading 7 | 0.3 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| BC01 | AF19824 | FB | Non-Filtered BOD 60 - Reading 8 | 0.3 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| BC01 | AF19824 | FB | Non-Filtered BOD 60 - Reading 9 | 0.3 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| BC01 | AF19824 | FB | Non-Filtered BOD 60 - Reading 10 | 0.3 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| BC01 | AF19824 | FB | Non-Filtered BOD 60 - Final | 0.4 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| BC01 | AF19825 | TRG | TSS | 9.3 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| BC01 | AF19825 | TRG | TDS | 396 | ppm | 160.1 | 9/16/2003 | 9/16/2003 | |
| BC01 | AF19825 | TRG | Alkalinity | 194 | ppm | 310.1 | 9/11/2003 | 9/11/2003 | |
| BC01 | AF19825 | TRG | Turbidity | 7.4 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| BC01 | AF19825 | TRG | Specific Conductance | 863 | umhos/cm | 120.1 | 9/11/2003 | 9/11/2003 | |
| BC01 | AF19825 | TRG | True Color | 35 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| BC01 | AF19825 | TRG | Chloride, Ion Chromatograph | 137 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| BC01 | AF19825 | TRG | Sulfate | 12.7 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| BC01 | AF19826 | TRG | Sodium | 109 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| BC01 | AF19827 | TRG | Hardness | 198 | ppm | 130.2 | 9/18/2003 | 9/18/2003 | |
| BC01 | AF19827 | TRG | Nitrate+Nitrite Nitrogen | ND | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| BC01 | AF19827 | TRG | TP | 0.46 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| BC01 | AF19827 | TRG | TKN | 1.12 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| BC01 | AF19827 | TRG | Ammonia-Nitrogen | 0.16 | ppm | 350.3 | 9/15/2003 | 9/15/2003 | |
| BC01 | AF19828 | TRG | TOC | 18.3 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| BC01 | AF19829 | TRG | pH, Ultimate BOD survey | 8.28 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| BC01 | AF19829 | TRG | TOC (60 Day BOD) | 12.9 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| BC01 | AF19829 | TRG | TKN (60 Day BOD) | 0.61 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| BC01 | AF19829 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| BC01 | AF19829 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| BC01 | AF19829 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/15/2003 |
| BC01 | AF19829 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| BC01 | AF19829 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| BC01 | AF19829 | TRG | NO2NO3 - Reading 5 | 0.23 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| BC01 | AF19829 | TRG | NO2NO3 - Reading 6 | 0.27 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| BC01 | AF19829 | TRG | NO2NO3 - Reading 7 | 0.49 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| BC01 | AF19829 | TRG | NO2NO3 - Reading 8 | 0.55 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| BC01 | AF19829 | TRG | NO2NO3 - Reading 9 | 0.57 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| BC01 | AF19829 | TRG | NO2NO3 - Reading 10 | 0.61 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| BC01 | AF19829 | TRG | NO2NO3 - Final | 0.60 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |

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|---|---|---|---|---|---|---|---|---|---|
| BC01 | AF19829 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.2 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| BC01 | AF19829 | TRG | Non-Filtered BOD 60 - Reading 2 | 3.5 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| BC01 | AF19829 | TRG | Non-Filtered BOD 60 - Reading 3 | 4.3 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| BC01 | AF19829 | TRG | Non-Filtered BOD 60 - Reading 4 | 4.9 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| BC01 | AF19829 | TRG | Non-Filtered BOD 60 - Reading 5 | 6.8 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| BC01 | AF19829 | TRG | Non-Filtered BOD 60 - Reading 6 | 7.8 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| BC01 | AF19829 | TRG | Non-Filtered BOD 60 - Reading 7 | 9.2 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| BC01 | AF19829 | TRG | Non-Filtered BOD 60 - Reading 8 | 10.3 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| BC01 | AF19829 | TRG | Non-Filtered BOD 60 - Reading 9 | 11.2 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| BC01 | AF19829 | TRG | Non-Filtered BOD 60 - Reading 10 | 11.8 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| BC01 | AF19829 | TRG | Non-Filtered BOD 60 - Final | 12.4 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| BC01 | AF19830 | FD | TSS | 10.7 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| BC01 | AF19830 | FD | TDS | 458 | ppm | 160.1 | 9/16/2003 | 9/16/2003 | |
| BC01 | AF19830 | FD | Alkalinity | 194 | ppm | 310.1 | 9/11/2003 | 9/11/2003 | |
| BC01 | AF19830 | FD | Turbidity | 7.5 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| BC01 | AF19830 | FD | Specific Conductance | 860 | umhos/cm | 120.1 | 9/11/2003 | 9/11/2003 | |
| BC01 | AF19830 | FD | True Color | 45 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| BC01 | AF19830 | FD | Chloride, Ion Chromatograph | 146 | ppm | 300.0 | 9/27/2003 | 9/27/2003 | |
| BC01 | AF19830 | FD | Sulfate | 11.9 | ppm | 300.0 | 9/27/2003 | 9/27/2003 | |
| BC01 | AF19831 | FD | Sodium | 112 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| BC01 | AF19832 | FD | Hardness | 197 | ppm | 130.2 | 9/18/2003 | 9/18/2003 | |
| BC01 | AF19832 | FD | Nitrate+Nitrite Nitrogen | ND | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| BC01 | AF19832 | FD | TP | 0.45 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| BC01 | AF19832 | FD | TKN | 1.10 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| BC01 | AF19832 | FD | Ammonia-Nitrogen | 0.17 | ppm | 350.3 | 9/15/2003 | 9/15/2003 | |
| BC01 | AF19833 | FD | TOC | 18.0 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| BC01 | AF19834 | FD | pH, Ultimate BOD survey | 8.33 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| BC01 | AF19834 | FD | TOC (60 Day BOD) | 13.4 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| BC01 | AF19834 | FD | TKN (60 Day BOD) | 0.64 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| BC01 | AF19834 | FD | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| BC01 | AF19834 | FD | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| BC01 | AF19834 | FD | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/15/2003 |
| BC01 | AF19834 | FD | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| BC01 | AF19834 | FD | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| BC01 | AF19834 | FD | NO2NO3 - Reading 5 | 0.22 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| BC01 | AF19834 | FD | NO2NO3 - Reading 6 | 0.32 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| BC01 | AF19834 | FD | NO2NO3 - Reading 7 | 0.52 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |

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|---|---|---|---|---|---|---|---|---|---|
| BC01 | AF19834 | FD | NO2NO3 - Reading 8 | 0.59 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| BC01 | AF19834 | FD | NO2NO3 - Reading 9 | 0.61 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| BC01 | AF19834 | FD | NO2NO3 - Reading 10 | 0.67 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| BC01 | AF19834 | FD | NO2NO3 - Final | 0.66 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| BC01 | AF19834 | FD | Non-Filtered BOD 60 - Reading 1 | 1.5 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| BC01 | AF19834 | FD | Non-Filtered BOD 60 - Reading 2 | 4.1 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| BC01 | AF19834 | FD | Non-Filtered BOD 60 - Reading 3 | 5.0 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| BC01 | AF19834 | FD | Non-Filtered BOD 60 - Reading 4 | 5.7 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| BC01 | AF19834 | FD | Non-Filtered BOD 60 - Reading 5 | 7.5 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| BC01 | AF19834 | FD | Non-Filtered BOD 60 - Reading 6 | 8.7 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| BC01 | AF19834 | FD | Non-Filtered BOD 60 - Reading 7 | 10.2 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| BC01 | AF19834 | FD | Non-Filtered BOD 60 - Reading 8 | 11.3 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| BC01 | AF19834 | FD | Non-Filtered BOD 60 - Reading 9 | 12.4 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| BC01 | AF19834 | FD | Non-Filtered BOD 60 - Reading 10 | 13.2 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| BC01 | AF19834 | FD | Non-Filtered BOD 60 - Final | 13.7 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| BC02 | AF19835 | TRG | TSS | 23.0 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| BC02 | AF19835 | TRG | TDS | 676 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| BC02 | AF19835 | TRG | Alkalinity | 154 | ppm | 310.1 | 9/11/2003 | 9/11/2003 | |
| BC02 | AF19835 | TRG | Turbidity | 15 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| BC02 | AF19835 | TRG | Specific Conductance | 1313 | umhos/cm | 120.1 | 9/11/2003 | 9/11/2003 | |
| BC02 | AF19835 | TRG | True Color | 50 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| BC02 | AF19835 | TRG | Chloride, Ion Chromatograph | 312 | ppm | 300.0 | 10/2/2003 | 10/2/2003 | |
| BC02 | AF19835 | TRG | Sulfate | 21.1 | ppm | 300.0 | 9/27/2003 | 9/27/2003 | |
| BC02 | AF19836 | TRG | Sodium | 189 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| BC02 | AF19837 | TRG | Hardness | 231 | ppm | 130.2 | 9/19/2003 | 9/19/2003 | |
| BC02 | AF19837 | TRG | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| BC02 | AF19837 | TRG | TP | 0.33 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| BC02 | AF19837 | TRG | TKN | 1.34 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| BC02 | AF19837 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| BC02 | AF19838 | TRG | TOC | 17.3 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| BC02 | AF19839 | TRG | pH, Ultimate BOD survey | 8.14 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| BC02 | AF19839 | TRG | TOC (60 Day BOD) | 11.5 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| BC02 | AF19839 | TRG | TKN (60 Day BOD) | 0.57 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| BC02 | AF19839 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| BC02 | AF19839 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| BC02 | AF19839 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/15/2003 |
| BC02 | AF19839 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |

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|---|---|---|---|---|---|---|---|---|---|
| BC02 | AF19839 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| BC02 | AF19839 | TRG | NO2NO3 - Reading 5 | 0.15 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| BC02 | AF19839 | TRG | NO2NO3 - Reading 6 | 0.21 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| BC02 | AF19839 | TRG | NO2NO3 - Reading 7 | 0.42 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| BC02 | AF19839 | TRG | NO2NO3 - Reading 8 | 0.49 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| BC02 | AF19839 | TRG | NO2NO3 - Reading 9 | 0.52 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| BC02 | AF19839 | TRG | NO2NO3 - Reading 10 | 0.58 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| BC02 | AF19839 | TRG | NO2NO3 - Final | 0.58 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| BC02 | AF19839 | TRG | Non-Filtered BOD 60 - Reading 1 | 0.9 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| BC02 | AF19839 | TRG | Non-Filtered BOD 60 - Reading 2 | 3.3 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| BC02 | AF19839 | TRG | Non-Filtered BOD 60 - Reading 3 | 4.2 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| BC02 | AF19839 | TRG | Non-Filtered BOD 60 - Reading 4 | 4.8 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| BC02 | AF19839 | TRG | Non-Filtered BOD 60 - Reading 5 | 6.3 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| BC02 | AF19839 | TRG | Non-Filtered BOD 60 - Reading 6 | 7.5 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| BC02 | AF19839 | TRG | Non-Filtered BOD 60 - Reading 7 | 9.0 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| BC02 | AF19839 | TRG | Non-Filtered BOD 60 - Reading 8 | 10.3 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| BC02 | AF19839 | TRG | Non-Filtered BOD 60 - Reading 9 | 11.6 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| BC02 | AF19839 | TRG | Non-Filtered BOD 60 - Reading 10 | 12.5 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| BC02 | AF19839 | TRG | Non-Filtered BOD 60 - Final | 13.2 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| BC02 | AF19840 | TRG | Chlorophyll A (calculated) | 45.1 | ug/L | 445 (modifie | 10/2/2003 | 10/7/2003 | |
| BC02 | AF19840 | TRG | Volume of sample, Chlorophyll A (raw) | 250 | ml | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| BC02 | AF19840 | TRG | Chlorophyll A (raw) | 1128 | ug/L | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| BC02 | AF19841 | TRG | Orthophosphate | 1.64 | ppm | 365.1 | 9/11/2003 | 9/11/2003 | |
| BC03 | AF19842 | TRG | TSS | 17.0 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| BC03 | AF19842 | TRG | TDS | 790 | ppm | 160.1 | 9/16/2003 | 9/16/2003 | |
| BC03 | AF19842 | TRG | Alkalinity | 127 | ppm | 310.1 | 9/11/2003 | 9/11/2003 | |
| BC03 | AF19842 | TRG | Turbidity | 16 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| BC03 | AF19842 | TRG | Specific Conductance | 1482 | umhos/cm | 120.1 | 9/11/2003 | 9/11/2003 | |
| BC03 | AF19842 | TRG | True Color | 100 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| BC03 | AF19842 | TRG | Chloride, Ion Chromatograph | 362 | ppm | 300.0 | 9/27/2003 | 9/27/2003 | |
| BC03 | AF19842 | TRG | Sulfate | 18.1 | ppm | 300.0 | 10/2/2003 | 10/2/2003 | |
| BC03 | AF19843 | TRG | Sodium | 232 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| BC03 | AF19844 | TRG | Hardness | 221 | ppm | 130.2 | 9/18/2003 | 9/18/2003 | |
| BC03 | AF19844 | TRG | Nitrate+Nitrite Nitrogen | 0.06 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| BC03 | AF19844 | TRG | TP | 0.50 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| BC03 | AF19844 | TRG | TKN | 1.57 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| BC03 | AF19844 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| BC03 | AF19845 | TRG | TOC | 21.5 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| BC03 | AF19846 | TRG | pH, Ultimate BOD survey | 8.08 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| BC03 | AF19846 | TRG | TOC (60 Day BOD) | 17.8 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| BC03 | AF19846 | TRG | TKN (60 Day BOD) | 0.88 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| BC03 | AF19846 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| BC03 | AF19846 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| BC03 | AF19846 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/15/2003 |
| BC03 | AF19846 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| BC03 | AF19846 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| BC03 | AF19846 | TRG | NO2NO3 - Reading 5 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| BC03 | AF19846 | TRG | NO2NO3 - Reading 6 | 0.13 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| BC03 | AF19846 | TRG | NO2NO3 - Reading 7 | 0.27 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| BC03 | AF19846 | TRG | NO2NO3 - Reading 8 | 0.41 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| BC03 | AF19846 | TRG | NO2NO3 - Reading 9 | 0.44 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| BC03 | AF19846 | TRG | NO2NO3 - Reading 10 | 0.48 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| BC03 | AF19846 | TRG | NO2NO3 - Final | 0.47 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| BC03 | AF19846 | TRG | Non-Filtered BOD 60 - Reading 1 | 0.9 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| BC03 | AF19846 | TRG | Non-Filtered BOD 60 - Reading 2 | 3.2 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| BC03 | AF19846 | TRG | Non-Filtered BOD 60 - Reading 3 | 4.2 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| BC03 | AF19846 | TRG | Non-Filtered BOD 60 - Reading 4 | 4.7 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| BC03 | AF19846 | TRG | Non-Filtered BOD 60 - Reading 5 | 5.8 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| BC03 | AF19846 | TRG | Non-Filtered BOD 60 - Reading 6 | 7.3 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| BC03 | AF19846 | TRG | Non-Filtered BOD 60 - Reading 7 | 8.8 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| BC03 | AF19846 | TRG | Non-Filtered BOD 60 - Reading 8 | 10.4 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| BC03 | AF19846 | TRG | Non-Filtered BOD 60 - Reading 9 | 11.9 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| BC03 | AF19846 | TRG | Non-Filtered BOD 60 - Reading 10 | 13.0 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| BC03 | AF19846 | TRG | Non-Filtered BOD 60 - Final | 13.9 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| BC03 | AF19847 | TRG | Volume of sample, Chlorophyll A (raw) | 250 | ml | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| BC03 | AF19847 | TRG | Chlorophyll A (calculated) | 36.2 | ug/L | 445 (modifie | 10/2/2003 | 10/7/2003 | |
| BC03 | AF19847 | TRG | Chlorophyll A (raw) | 904 | ug/L | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| BC05 | AF19848 | TRG | TSS | 27.0 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| BC05 | AF19848 | TRG | TDS | 2022 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| BC05 | AF19848 | TRG | Alkalinity | 119 | ppm | 310.1 | 9/11/2003 | 9/11/2003 | |
| BC05 | AF19848 | TRG | Turbidity | 15 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| BC05 | AF19848 | TRG | Specific Conductance | 3810 | umhos/cm | 120.1 | 9/11/2003 | 9/11/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| BC05 | AF19848 | TRG | True Color | 60 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| BC05 | AF19848 | TRG | Chloride, Ion Chromatograph | 1234 | ppm | 300.0 | 10/2/2003 | 10/2/2003 | |
| BC05 | AF19848 | TRG | Sulfate | 92.5 | ppm | 300.0 | 9/27/2003 | 9/27/2003 | |
| BC05 | AF19849 | TRG | Sodium | 659 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| BC05 | AF19850 | TRG | Hardness | 447 | ppm | 130.2 | 9/18/2003 | 9/18/2003 | |
| BC05 | AF19850 | TRG | Nitrate+Nitrite Nitrogen | 0.06 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| BC05 | AF19850 | TRG | TP | 0.39 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| BC05 | AF19850 | TRG | TKN | 1.85 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| BC05 | AF19850 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| BC05 | AF19851 | TRG | TOC | 21.2 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| BC05 | AF19852 | TRG | pH, Ultimate BOD survey | 8.12 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| BC05 | AF19852 | TRG | TOC (60 Day BOD) | 14.7 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| BC05 | AF19852 | TRG | TKN (60 Day BOD) | 1.01 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| BC05 | AF19852 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| BC05 | AF19852 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| BC05 | AF19852 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/15/2003 |
| BC05 | AF19852 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| BC05 | AF19852 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| BC05 | AF19852 | TRG | NO2NO3 - Reading 5 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| BC05 | AF19852 | TRG | NO2NO3 - Reading 6 | 0.20 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| BC05 | AF19852 | TRG | NO2NO3 - Reading 7 | 0.36 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| BC05 | AF19852 | TRG | NO2NO3 - Reading 8 | 0.64 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/5/2003 |
| BC05 | AF19852 | TRG | NO2NO3 - Reading 9 | 0.65 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| BC05 | AF19852 | TRG | NO2NO3 - Reading 10 | 0.70 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| BC05 | AF19852 | TRG | NO2NO3 - Reading 11 | 0.78 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| BC05 | AF19852 | TRG | NO2NO3 - Final | 0.77 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| BC05 | AF19852 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.5 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| BC05 | AF19852 | TRG | Non-Filtered BOD 60 - Reading 2 | 5.1 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| BC05 | AF19852 | TRG | Non-Filtered BOD 60 - Reading 3 | 6.7 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| BC05 | AF19852 | TRG | Non-Filtered BOD 60 - Reading 4 | 7.9 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| BC05 | AF19852 | TRG | Non-Filtered BOD 60 - Reading 5 | 9.8 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| BC05 | AF19852 | TRG | Non-Filtered BOD 60 - Reading 6 | 12.4 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| BC05 | AF19852 | TRG | Non-Filtered BOD 60 - Reading 7 | 14.4 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| BC05 | AF19852 | TRG | Non-Filtered BOD 60 - Reading 8 | 16.2 | ppm | 5210B | 9/11/2003 | 10/5/2003 | |
| BC05 | AF19852 | TRG | Non-Filtered BOD 60 - Reading 9 | 16.9 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| BC05 | AF19852 | TRG | Non-Filtered BOD 60 - Reading 10 | 18.8 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| BC05 | AF19852 | TRG | Non-Filtered BOD 60 - Reading 11 | 20.1 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| BC05 | AF19852 | TRG | Non-Filtered BOD 60 - Final | 21.3 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| BC05 | AF19853 | TRG | Chlorophyll A (calculated) | 87.7 | ug/L | 445 (modifie | 10/2/2003 | 10/7/2003 | |
| BC05 | AF19853 | TRG | Chlorophyll A (raw) | 2192 | ug/L | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| BC05 | AF19853 | TRG | Volume of sample, Chlorophyll A (raw) | 250 | ml | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| BC05 | AF19854 | TRG | Orthophosphate | 2.27 | ppm | 365.1 | 9/11/2003 | 9/11/2003 | |
| BC07 | AF19855 | TRG | TSS | 28.0 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| BC07 | AF19855 | TRG | TDS | 3704 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| BC07 | AF19855 | TRG | Alkalinity | 111 | ppm | 310.1 | 9/11/2003 | 9/11/2003 | |
| BC07 | AF19855 | TRG | Turbidity | 20 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| BC07 | AF19855 | TRG | Specific Conductance | 6730 | umhos/cm | 120.1 | 9/11/2003 | 9/11/2003 | |
| BC07 | AF19855 | TRG | True Color | 50 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| BC07 | AF19855 | TRG | Chloride, Ion Chromatograph | 2027 | ppm | 300.0 | 9/27/2003 | 9/27/2003 | |
| BC07 | AF19855 | TRG | Sulfate | 245 | ppm | 300.0 | 9/27/2003 | 9/27/2003 | |
| BC07 | AF19856 | TRG | Sodium | 1260 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| BC07 | AF19857 | TRG | Hardness | 750 | ppm | 130.2 | 9/18/2003 | 9/18/2003 | |
| BC07 | AF19857 | TRG | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| BC07 | AF19857 | TRG | TP | 0.27 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| BC07 | AF19857 | TRG | TKN | 1.60 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| BC07 | AF19857 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| BC07 | AF19858 | TRG | TOC | 18.8 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| BC07 | AF19859 | TRG | pH, Ultimate BOD survey | 8.01 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| BC07 | AF19859 | TRG | TOC (60 Day BOD) | 12.5 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| BC07 | AF19859 | TRG | TKN (60 Day BOD) | 1.00 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| BC07 | AF19859 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| BC07 | AF19859 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| BC07 | AF19859 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| BC07 | AF19859 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| BC07 | AF19859 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| BC07 | AF19859 | TRG | NO2NO3 - Reading 5 | 0.13 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| BC07 | AF19859 | TRG | NO2NO3 - Reading 6 | 0.25 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| BC07 | AF19859 | TRG | NO2NO3 - Reading 7 | 0.44 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| BC07 | AF19859 | TRG | NO2NO3 - Reading 8 | 0.62 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/5/2003 |
| BC07 | AF19859 | TRG | NO2NO3 - Reading 9 | 0.65 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| BC07 | AF19859 | TRG | NO2NO3 - Reading 10 | 0.70 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| BC07 | AF19859 | TRG | NO2NO3 - Reading 11 | 0.78 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| BC07 | AF19859 | TRG | NO2NO3 - Final | 0.77 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |

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|---|---|---|---|---|---|---|---|---|---|
| BC07 | AF19859 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.2 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| BC07 | AF19859 | TRG | Non-Filtered BOD 60 - Reading 2 | 4.0 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| BC07 | AF19859 | TRG | Non-Filtered BOD 60 - Reading 3 | 5.5 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| BC07 | AF19859 | TRG | Non-Filtered BOD 60 - Reading 4 | 6.6 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| BC07 | AF19859 | TRG | Non-Filtered BOD 60 - Reading 5 | 9.2 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| BC07 | AF19859 | TRG | Non-Filtered BOD 60 - Reading 6 | 11.2 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| BC07 | AF19859 | TRG | Non-Filtered BOD 60 - Reading 7 | 13.2 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| BC07 | AF19859 | TRG | Non-Filtered BOD 60 - Reading 8 | 14.7 | ppm | 5210B | 9/11/2003 | 10/5/2003 | |
| BC07 | AF19859 | TRG | Non-Filtered BOD 60 - Reading 9 | 15.5 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| BC07 | AF19859 | TRG | Non-Filtered BOD 60 - Reading 10 | 17.5 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| BC07 | AF19859 | TRG | Non-Filtered BOD 60 - Reading 11 | 18.7 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| BC07 | AF19859 | TRG | Non-Filtered BOD 60 - Final | 19.5 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| BC07 | AF19860 | TRG | Chlorophyll A (calculated) | 68.5 | ug/L | 445 (modifie | 10/2/2003 | 10/7/2003 | |
| BC07 | AF19860 | TRG | Volume of sample, Chlorophyll A (raw) | 250 | ml | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| BC07 | AF19860 | TRG | Chlorophyll A (raw) | 1712 | ug/L | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| BC07 | AF19861 | TRG | Orthophosphate | 1.03 | ppm | 365.1 | 9/11/2003 | 9/11/2003 | |
| BC09 | AF19862 | TRG | TSS | 39.0 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| BC09 | AF19862 | TRG | TDS | 4240 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| BC09 | AF19862 | TRG | Alkalinity | 110 | ppm | 310.1 | 9/11/2003 | 9/11/2003 | |
| BC09 | AF19862 | TRG | Turbidity | 25 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| BC09 | AF19862 | TRG | Specific Conductance | 7480 | umhos/cm | 120.1 | 9/11/2003 | 9/11/2003 | |
| BC09 | AF19862 | TRG | True Color | 55 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| BC09 | AF19862 | TRG | Chloride, Ion Chromatograph | 2274 | ppm | 300.0 | 9/27/2003 | 9/27/2003 | |
| BC09 | AF19862 | TRG | Sulfate | 279 | ppm | 300.0 | 9/27/2003 | 9/27/2003 | |
| BC09 | AF19863 | TRG | Sodium | 1430 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| BC09 | AF19864 | TRG | Hardness | 834 | ppm | 130.2 | 10/1/2003 | 10/1/2003 | |
| BC09 | AF19864 | TRG | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| BC09 | AF19864 | TRG | TP | 0.25 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| BC09 | AF19864 | TRG | TKN | 1.71 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| BC09 | AF19864 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| BC09 | AF19865 | TRG | TOC | 17.2 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| BC09 | AF19866 | TRG | pH, Ultimate BOD survey | 7.95 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| BC09 | AF19866 | TRG | TOC (60 Day BOD) | 12.1 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| BC09 | AF19866 | TRG | TKN (60 Day BOD) | 0.91 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| BC09 | AF19866 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| BC09 | AF19866 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |

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|---|---|---|---|---|---|---|---|---|---|
| BC09 | AF19866 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| BC09 | AF19866 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| BC09 | AF19866 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| BC09 | AF19866 | TRG | NO2NO3 - Reading 5 | 0.12 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| BC09 | AF19866 | TRG | NO2NO3 - Reading 6 | 0.23 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| BC09 | AF19866 | TRG | NO2NO3 - Reading 7 | 0.46 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| BC09 | AF19866 | TRG | NO2NO3 - Reading 8 | 0.61 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/5/2003 |
| BC09 | AF19866 | TRG | NO2NO3 - Reading 9 | 0.62 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| BC09 | AF19866 | TRG | NO2NO3 - Reading 10 | 0.68 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| BC09 | AF19866 | TRG | NO2NO3 - Reading 11 | 0.75 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| BC09 | AF19866 | TRG | NO2NO3 - Final | 0.76 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| BC09 | AF19866 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.0 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| BC09 | AF19866 | TRG | Non-Filtered BOD 60 - Reading 2 | 3.5 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| BC09 | AF19866 | TRG | Non-Filtered BOD 60 - Reading 3 | 5.0 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| BC09 | AF19866 | TRG | Non-Filtered BOD 60 - Reading 4 | 6.4 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| BC09 | AF19866 | TRG | Non-Filtered BOD 60 - Reading 5 | 8.6 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| BC09 | AF19866 | TRG | Non-Filtered BOD 60 - Reading 6 | 10.6 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| BC09 | AF19866 | TRG | Non-Filtered BOD 60 - Reading 7 | 12.5 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| BC09 | AF19866 | TRG | Non-Filtered BOD 60 - Reading 8 | 13.8 | ppm | 5210B | 9/11/2003 | 10/5/2003 | |
| BC09 | AF19866 | TRG | Non-Filtered BOD 60 - Reading 9 | 14.6 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| BC09 | AF19866 | TRG | Non-Filtered BOD 60 - Reading 10 | 16.6 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| BC09 | AF19866 | TRG | Non-Filtered BOD 60 - Reading 11 | 17.8 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| BC09 | AF19866 | TRG | Non-Filtered BOD 60 - Final | 18.6 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| BC09 | AF19867 | TRG | Chlorophyll A (raw) | 840 | ug/L | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| BC09 | AF19867 | TRG | Volume of sample, Chlorophyll A (raw) | 80 | ml | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| BC09 | AF19867 | TRG | Chlorophyll A (calculated) | 105 | ug/L | 445 (modifie | 10/2/2003 | 10/7/2003 | |
| BC09 | AF19868 | TRG | Orthophosphate | 0.69 | ppm | 365.1 | 9/11/2003 | 9/11/2003 | |
| BD01 | AF19877 | TRG | TSS | 30.0 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| BD01 | AF19877 | TRG | TDS | 6720 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| BD01 | AF19877 | TRG | Alkalinity | 107 | ppm | 310.1 | 9/11/2003 | 9/11/2003 | |
| BD01 | AF19877 | TRG | Turbidity | 17 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| BD01 | AF19877 | TRG | Specific Conductance | 11480 | umhos/cm | 120.1 | 9/11/2003 | 9/11/2003 | |
| BD01 | AF19877 | TRG | True Color | 35 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| BD01 | AF19877 | TRG | Chloride, Ion Chromatograph | 3580 | ppm | 300.0 | 9/27/2003 | 9/27/2003 | |
| BD01 | AF19877 | TRG | Sulfate | 506 | ppm | 300.0 | 9/27/2003 | 9/27/2003 | |
| BD01 | AF19878 | TRG | Sodium | 2320 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| BD01 | AF19879 | TRG | Hardness | 1318 | ppm | 130.2 | 9/19/2003 | 9/19/2003 | |
| BD01 | AF19879 | TRG | Nitrate+Nitrite Nitrogen | 0.06 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| BD01 | AF19879 | TRG | TP | 0.20 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| BD01 | AF19879 | TRG | TKN | 1.46 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| BD01 | AF19879 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| BD01 | AF19880 | TRG | TOC | 12.9 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| BD01 | AF19881 | TRG | pH, Ultimate BOD survey | 7.93 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| BD01 | AF19881 | TRG | TOC (60 Day BOD) | 9.8 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| BD01 | AF19881 | TRG | TKN (60 Day BOD) | 0.76 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| BD01 | AF19881 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| BD01 | AF19881 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| BD01 | AF19881 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| BD01 | AF19881 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| BD01 | AF19881 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| BD01 | AF19881 | TRG | NO2NO3 - Reading 5 | 0.05 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| BD01 | AF19881 | TRG | NO2NO3 - Reading 6 | 0.23 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| BD01 | AF19881 | TRG | NO2NO3 - Reading 7 | 0.41 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| BD01 | AF19881 | TRG | NO2NO3 - Reading 8 | 0.62 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| BD01 | AF19881 | TRG | NO2NO3 - Reading 9 | 0.64 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| BD01 | AF19881 | TRG | NO2NO3 - Reading 10 | 0.70 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| BD01 | AF19881 | TRG | NO2NO3 - Final | 0.70 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| BD01 | AF19881 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.1 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| BD01 | AF19881 | TRG | Non-Filtered BOD 60 - Reading 2 | 3.2 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| BD01 | AF19881 | TRG | Non-Filtered BOD 60 - Reading 3 | 4.4 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| BD01 | AF19881 | TRG | Non-Filtered BOD 60 - Reading 4 | 5.2 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| BD01 | AF19881 | TRG | Non-Filtered BOD 60 - Reading 5 | 6.5 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| BD01 | AF19881 | TRG | Non-Filtered BOD 60 - Reading 6 | 8.4 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| BD01 | AF19881 | TRG | Non-Filtered BOD 60 - Reading 7 | 10.2 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| BD01 | AF19881 | TRG | Non-Filtered BOD 60 - Reading 8 | 11.9 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| BD01 | AF19881 | TRG | Non-Filtered BOD 60 - Reading 9 | 13.0 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| BD01 | AF19881 | TRG | Non-Filtered BOD 60 - Reading 10 | 13.7 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| BD01 | AF19881 | TRG | Non-Filtered BOD 60 - Final | 14.3 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| BD01 | AF19882 | TRG | Chlorophyll A (calculated) | 33.6 | ug/L | 445 (modifie | 10/2/2003 | 10/7/2003 | |
| BD01 | AF19882 | TRG | Chlorophyll A (raw) | 840 | ug/L | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| BD01 | AF19882 | TRG | Volume of sample, Chlorophyll A (raw) | 250 | ml | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| BB02 | AF19883 | TRG | TSS | 25.0 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| BB02 | AF19883 | TRG | TDS | 3396 | ppm | 160.1 | 9/16/2003 | 9/16/2003 | |
| BB02 | AF19883 | TRG | Alkalinity | 109 | ppm | 310.1 | 9/11/2003 | 9/11/2003 | |
| BB02 | AF19883 | TRG | Turbidity | 15 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| BB02 | AF19883 | TRG | Specific Conductance | 6440 | umhos/cm | 120.1 | 9/11/2003 | 9/11/2003 | |
| BB02 | AF19883 | TRG | True Color | 60 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| BB02 | AF19883 | TRG | Chloride, Ion Chromatograph | 1892 | ppm | 300.0 | 9/26/2003 | 9/26/2003 | |
| BB02 | AF19883 | TRG | Sulfate | 223 | ppm | 300.0 | 9/26/2003 | 9/26/2003 | |
| BB02 | AF19884 | TRG | Sodium | 1280 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| BB02 | AF19885 | TRG | Hardness | 704 | ppm | 130.2 | 9/18/2003 | 9/18/2003 | |
| BB02 | AF19885 | TRG | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| BB02 | AF19885 | TRG | TP | 0.26 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| BB02 | AF19885 | TRG | TKN | 1.94 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| BB02 | AF19885 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| BB02 | AF19886 | TRG | TOC | 20.3 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| BB02 | AF19887 | TRG | pH, Ultimate BOD survey | 8.01 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| BB02 | AF19887 | TRG | TOC (60 Day BOD) | 14.1 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| BB02 | AF19887 | TRG | TKN (60 Day BOD) | 1.16 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| BB02 | AF19887 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| BB02 | AF19887 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| BB02 | AF19887 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| BB02 | AF19887 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| BB02 | AF19887 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| BB02 | AF19887 | TRG | NO2NO3 - Reading 5 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| BB02 | AF19887 | TRG | NO2NO3 - Reading 6 | 0.26 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| BB02 | AF19887 | TRG | NO2NO3 - Reading 7 | 0.37 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| BB02 | AF19887 | TRG | NO2NO3 - Reading 8 | 0.66 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| BB02 | AF19887 | TRG | NO2NO3 - Reading 9 | 0.88 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| BB02 | AF19887 | TRG | NO2NO3 - Reading 10 | 0.93 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| BB02 | AF19887 | TRG | NO2NO3 - Final | 0.93 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| BB02 | AF19887 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.6 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| BB02 | AF19887 | TRG | Non-Filtered BOD 60 - Reading 2 | 5.3 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| BB02 | AF19887 | TRG | Non-Filtered BOD 60 - Reading 3 | 7.1 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| BB02 | AF19887 | TRG | Non-Filtered BOD 60 - Reading 4 | 8.4 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| BB02 | AF19887 | TRG | Non-Filtered BOD 60 - Reading 5 | 10.9 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| BB02 | AF19887 | TRG | Non-Filtered BOD 60 - Reading 6 | 13.7 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| BB02 | AF19887 | TRG | Non-Filtered BOD 60 - Reading 7 | 14.9 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| BB02 | AF19887 | TRG | Non-Filtered BOD 60 - Reading 8 | 18.4 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| BB02 | AF19887 | TRG | Non-Filtered BOD 60 - Reading 9 | 20.8 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| BB02 | AF19887 | TRG | Non-Filtered BOD 60 - Reading 10 | 21.9 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| BB02 | AF19887 | TRG | Non-Filtered BOD 60 - Final | 23.0 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| C01 | AF19888 | TRG | TSS | 10.0 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| C01 | AF19888 | TRG | TDS | 760 | ppm | 160.1 | 9/16/2003 | 9/16/2003 | |
| C01 | AF19888 | TRG | Alkalinity | 332 | ppm | 310.1 | 9/11/2003 | 9/11/2003 | |
| C01 | AF19888 | TRG | Turbidity | 9.8 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| C01 | AF19888 | TRG | Specific Conductance | 1354 | umhos/cm | 120.1 | 9/11/2003 | 9/11/2003 | |
| C01 | AF19888 | TRG | True Color | 55 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| C01 | AF19888 | TRG | Chloride, Ion Chromatograph | 199 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| C01 | AF19888 | TRG | Sulfate | 12.1 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| C01 | AF19889 | TRG | Sodium | 149 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| C01 | AF19890 | TRG | Hardness | 368 | ppm | 130.2 | 9/19/2003 | 9/19/2003 | |
| C01 | AF19890 | TRG | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| C01 | AF19890 | TRG | TP | 1.61 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| C01 | AF19890 | TRG | TKN | 2.14 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| C01 | AF19890 | TRG | Ammonia-Nitrogen | 1.20 | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| C01 | AF19891 | TRG | TOC | 21.3 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| C01 | AF19892 | TRG | pH, Ultimate BOD survey | 8.45 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| C01 | AF19892 | TRG | TOC (60 Day BOD) | 16.1 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| C01 | AF19892 | TRG | TKN (60 Day BOD) | 0.81 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| C01 | AF19892 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| C01 | AF19892 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| C01 | AF19892 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| C01 | AF19892 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| C01 | AF19892 | TRG | NO2NO3 - Reading 4 | 0.22 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| C01 | AF19892 | TRG | NO2NO3 - Reading 5 | 0.80 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| C01 | AF19892 | TRG | NO2NO3 - Reading 6 | 0.96 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| C01 | AF19892 | TRG | NO2NO3 - Reading 7 | 1.18 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| C01 | AF19892 | TRG | NO2NO3 - Reading 8 | 1.22 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| C01 | AF19892 | TRG | NO2NO3 - Reading 9 | 1.25 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| C01 | AF19892 | TRG | NO2NO3 - Reading 10 | 1.34 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| C01 | AF19892 | TRG | NO2NO3 - Final | 1.31 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| C01 | AF19892 | TRG | Non-Filtered BOD 60 - Reading 1 | 0.8 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| C01 | AF19892 | TRG | Non-Filtered BOD 60 - Reading 2 | 2.5 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| C01 | AF19892 | TRG | Non-Filtered BOD 60 - Reading 3 | 3.7 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| C01 | AF19892 | TRG | Non-Filtered BOD 60 - Reading 4 | 5.4 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| C01 | AF19892 | TRG | Non-Filtered BOD 60 - Reading 5 | 8.7 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| C01 | AF19892 | TRG | Non-Filtered BOD 60 - Reading 6 | 10.5 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| C01 | AF19892 | TRG | Non-Filtered BOD 60 - Reading 7 | 12.1 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| C01 | AF19892 | TRG | Non-Filtered BOD 60 - Reading 8 | 13.7 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| C01 | AF19892 | TRG | Non-Filtered BOD 60 - Reading 9 | 15.0 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| C01 | AF19892 | TRG | Non-Filtered BOD 60 - Reading 10 | 16.0 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| C01 | AF19892 | TRG | Non-Filtered BOD 60 - Final | 16.7 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| C02 | AF19893 | TRG | TSS | 12.0 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| C02 | AF19893 | TRG | TDS | 658 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| C02 | AF19893 | TRG | Alkalinity | 147 | ppm | 310.1 | 9/11/2003 | 9/11/2003 | |
| C02 | AF19893 | TRG | Turbidity | 16 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| C02 | AF19893 | TRG | Specific Conductance | 1136 | umhos/cm | 120.1 | 9/11/2003 | 9/11/2003 | |
| C02 | AF19893 | TRG | True Color | 110 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| C02 | AF19893 | TRG | Chloride, Ion Chromatograph | 229 | ppm | 300.0 | 10/2/2003 | 10/2/2003 | |
| C02 | AF19893 | TRG | Sulfate | 12.5 | ppm | 300.0 | 10/2/2003 | 10/2/2003 | |
| C02 | AF19894 | TRG | Sodium | 142 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| C02 | AF19895 | TRG | Hardness | 243 | ppm | 130.2 | 10/1/2003 | 10/1/2003 | |
| C02 | AF19895 | TRG | Nitrate+Nitrite Nitrogen | ND | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| C02 | AF19895 | TRG | TP | 1.58 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| C02 | AF19895 | TRG | TKN | 2.07 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| C02 | AF19895 | TRG | Ammonia-Nitrogen | 0.97 | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| C02 | AF19896 | TRG | TOC | 21.1 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| C02 | AF19897 | TRG | pH, Ultimate BOD survey | 8.02 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| C02 | AF19897 | TRG | TOC (60 Day BOD) | 17.1 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| C02 | AF19897 | TRG | TKN (60 Day BOD) | 1.08 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| C02 | AF19897 | TRG | NO2NO3 - Initial Reading | 0.06 | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| C02 | AF19897 | TRG | NO2NO3 - Reading 1 | 0.07 | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| C02 | AF19897 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| C02 | AF19897 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| C02 | AF19897 | TRG | NO2NO3 - Reading 4 | 0.16 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| C02 | AF19897 | TRG | NO2NO3 - Reading 5 | 0.60 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| C02 | AF19897 | TRG | NO2NO3 - Reading 6 | 0.94 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| C02 | AF19897 | TRG | NO2NO3 - Reading 7 | 1.02 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| C02 | AF19897 | TRG | NO2NO3 - Reading 8 | 1.09 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| C02 | AF19897 | TRG | NO2NO3 - Reading 9 | 1.14 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| C02 | AF19897 | TRG | NO2NO3 - Reading 10 | 1.17 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| C02 | AF19897 | TRG | NO2NO3 - Final | 1.18 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |

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|---|---|---|---|---|---|---|---|---|---|
| C02 | AF19897 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.2 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| C02 | AF19897 | TRG | Non-Filtered BOD 60 - Reading 2 | 4.0 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| C02 | AF19897 | TRG | Non-Filtered BOD 60 - Reading 3 | 5.5 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| C02 | AF19897 | TRG | Non-Filtered BOD 60 - Reading 4 | 7.3 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| C02 | AF19897 | TRG | Non-Filtered BOD 60 - Reading 5 | 10.5 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| C02 | AF19897 | TRG | Non-Filtered BOD 60 - Reading 6 | 12.8 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| C02 | AF19897 | TRG | Non-Filtered BOD 60 - Reading 7 | 14.2 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| C02 | AF19897 | TRG | Non-Filtered BOD 60 - Reading 8 | 15.8 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| C02 | AF19897 | TRG | Non-Filtered BOD 60 - Reading 9 | 17.4 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| C02 | AF19897 | TRG | Non-Filtered BOD 60 - Reading 10 | 18.3 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| C02 | AF19897 | TRG | Non-Filtered BOD 60 - Final | 19.1 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| CO3 | AF19898 | TRG | TSS | 8.0 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| CO3 | AF19898 | TRG | TDS | 962 | ppm | 160.1 | 9/16/2003 | 9/16/2003 | |
| CO3 | AF19898 | TRG | Alkalinity | 122 | ppm | 310.1 | 9/11/2003 | 9/11/2003 | |
| CO3 | AF19898 | TRG | Turbidity | 6.3 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| CO3 | AF19898 | TRG | Specific Conductance | 1624 | umhos/cm | 120.1 | 9/11/2003 | 9/11/2003 | |
| CO3 | AF19898 | TRG | True Color | 110 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| CO3 | AF19898 | TRG | Chloride, Ion Chromatograph | 409 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| CO3 | AF19898 | TRG | Sulfate | 52.4 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| CO3 | AF19899 | TRG | Sodium | 250 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| CO3 | AF19900 | TRG | Hardness | 254 | ppm | 130.2 | 9/18/2003 | 9/18/2003 | |
| CO3 | AF19900 | TRG | Nitrate+Nitrite Nitrogen | 0.11 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| CO3 | AF19900 | TRG | TP | 0.23 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| CO3 | AF19900 | TRG | TKN | 2.32 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| CO3 | AF19900 | TRG | Ammonia-Nitrogen | 0.31 | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| CO3 | AF19901 | TRG | TOC | 29.8 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| CO3 | AF19902 | TRG | pH, Ultimate BOD survey | 7.94 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| CO3 | AF19902 | TRG | TOC (60 Day BOD) | 24.8 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| CO3 | AF19902 | TRG | TKN (60 Day BOD) | 1.58 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| CO3 | AF19902 | TRG | NO2NO3 - Initial Reading | 0.07 | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| CO3 | AF19902 | TRG | NO2NO3 - Reading 1 | 0.08 | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| CO3 | AF19902 | TRG | NO2NO3 - Reading 2 | 0.09 | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| CO3 | AF19902 | TRG | NO2NO3 - Reading 3 | 0.10 | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| CO3 | AF19902 | TRG | NO2NO3 - Reading 4 | 0.12 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| CO3 | AF19902 | TRG | NO2NO3 - Reading 5 | 0.22 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| CO3 | AF19902 | TRG | NO2NO3 - Reading 6 | 0.32 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| CO3 | AF19902 | TRG | NO2NO3 - Reading 7 | 0.52 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |

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|---|---|---|---|---|---|---|---|---|---|
| CO3 | AF19902 | TRG | NO2NO3 - Reading 8 | 0.59 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| CO3 | AF19902 | TRG | NO2NO3 - Reading 9 | 0.61 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| CO3 | AF19902 | TRG | NO2NO3 - Reading 10 | 0.69 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| CO3 | AF19902 | TRG | NO2NO3 - Final | 0.68 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| CO3 | AF19902 | TRG | Non-Filtered BOD 60 - Reading 1 | 0.7 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| CO3 | AF19902 | TRG | Non-Filtered BOD 60 - Reading 2 | 2.7 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| CO3 | AF19902 | TRG | Non-Filtered BOD 60 - Reading 3 | 3.5 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| CO3 | AF19902 | TRG | Non-Filtered BOD 60 - Reading 4 | 4.3 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| CO3 | AF19902 | TRG | Non-Filtered BOD 60 - Reading 5 | 6.0 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| CO3 | AF19902 | TRG | Non-Filtered BOD 60 - Reading 6 | 7.2 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| CO3 | AF19902 | TRG | Non-Filtered BOD 60 - Reading 7 | 8.8 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| CO3 | AF19902 | TRG | Non-Filtered BOD 60 - Reading 8 | 10.6 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| CO3 | AF19902 | TRG | Non-Filtered BOD 60 - Reading 9 | 12.3 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| CO3 | AF19902 | TRG | Non-Filtered BOD 60 - Reading 10 | 13.8 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| CO3 | AF19902 | TRG | Non-Filtered BOD 60 - Final | 15.1 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| C04 | AF19903 | TRG | TSS | 8.0 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| C04 | AF19903 | TRG | TDS | 1542 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| C04 | AF19903 | TRG | Alkalinity | 210 | ppm | 310.1 | 9/11/2003 | 9/11/2003 | |
| C04 | AF19903 | TRG | Turbidity | 5.4 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| C04 | AF19903 | TRG | Specific Conductance | 2910 | umhos/cm | 120.1 | 9/11/2003 | 9/11/2003 | |
| C04 | AF19903 | TRG | True Color | 50 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| C04 | AF19903 | TRG | Chloride, Ion Chromatograph | 804 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| C04 | AF19903 | TRG | Sulfate | 55.9 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| C04 | AF19904 | TRG | Sodium | 485 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| C04 | AF19905 | TRG | Hardness | 448 | ppm | 130.2 | 9/18/2003 | 9/18/2003 | |
| C04 | AF19905 | TRG | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| C04 | AF19905 | TRG | TP | 0.54 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| C04 | AF19905 | TRG | TKN | 2.40 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| C04 | AF19905 | TRG | Ammonia-Nitrogen | 0.62 | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| C04 | AF19906 | TRG | TOC | 15.4 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| C04 | AF19907 | TRG | pH, Ultimate BOD survey | 8.26 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| C04 | AF19907 | TRG | TOC (60 Day BOD) | 11.6 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| C04 | AF19907 | TRG | TKN (60 Day BOD) | 0.94 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| C04 | AF19907 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| C04 | AF19907 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| C04 | AF19907 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| C04 | AF19907 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |

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|---|---|---|---|---|---|---|---|---|---|
| C04 | AF19907 | TRG | NO2NO3 - Reading 4 | 0.05 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| C04 | AF19907 | TRG | NO2NO3 - Reading 5 | 0.55 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| C04 | AF19907 | TRG | NO2NO3 - Reading 6 | 0.71 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| C04 | AF19907 | TRG | NO2NO3 - Reading 7 | 0.96 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| C04 | AF19907 | TRG | NO2NO3 - Reading 8 | 1.02 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| C04 | AF19907 | TRG | NO2NO3 - Reading 9 | 1.03 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| C04 | AF19907 | TRG | NO2NO3 - Reading 10 | 1.11 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| C04 | AF19907 | TRG | NO2NO3 - Final | 1.10 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| C04 | AF19907 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.3 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| C04 | AF19907 | TRG | Non-Filtered BOD 60 - Reading 2 | 3.8 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| C04 | AF19907 | TRG | Non-Filtered BOD 60 - Reading 3 | 4.8 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| C04 | AF19907 | TRG | Non-Filtered BOD 60 - Reading 4 | 5.8 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| C04 | AF19907 | TRG | Non-Filtered BOD 60 - Reading 5 | 9.2 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| C04 | AF19907 | TRG | Non-Filtered BOD 60 - Reading 6 | 10.9 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| C04 | AF19907 | TRG | Non-Filtered BOD 60 - Reading 7 | 13.2 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| C04 | AF19907 | TRG | Non-Filtered BOD 60 - Reading 8 | 14.5 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| C04 | AF19907 | TRG | Non-Filtered BOD 60 - Reading 9 | 15.9 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| C04 | AF19907 | TRG | Non-Filtered BOD 60 - Reading 10 | 17.0 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| C04 | AF19907 | TRG | Non-Filtered BOD 60 - Final | 17.7 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| C05 | AF19908 | TRG | TSS | 4.7 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| C05 | AF19908 | TRG | TDS | 1044 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| C05 | AF19908 | TRG | Alkalinity | 117 | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| C05 | AF19908 | TRG | Turbidity | 8.1 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| C05 | AF19908 | TRG | Specific Conductance | 1761 | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |
| C05 | AF19908 | TRG | True Color | 100 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| C05 | AF19908 | TRG | Chloride, Ion Chromatograph | 470 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| C05 | AF19908 | TRG | Sulfate | 138 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| C05 | AF19909 | TRG | Sodium | 296 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| C05 | AF19910 | TRG | Hardness | 314 | ppm | 130.2 | 9/18/2003 | 9/18/2003 | |
| C05 | AF19910 | TRG | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| C05 | AF19910 | TRG | TP | 0.61 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| C05 | AF19910 | TRG | TKN | 1.94 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| C05 | AF19910 | TRG | Ammonia-Nitrogen | 0.51 | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| C05 | AF19911 | TRG | TOC | 21.6 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| C05 | AF19912 | TRG | pH, Ultimate BOD survey | 7.93 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| C05 | AF19912 | TRG | TOC (60 Day BOD) | 18.6 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| C05 | AF19912 | TRG | TKN (60 Day BOD) | 1.17 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| C05 | AF19912 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| C05 | AF19912 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| C05 | AF19912 | TRG | NO2NO3 - Reading 2 | 0.06 | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| C05 | AF19912 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| C05 | AF19912 | TRG | NO2NO3 - Reading 4 | 0.12 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| C05 | AF19912 | TRG | NO2NO3 - Reading 5 | 0.35 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| C05 | AF19912 | TRG | NO2NO3 - Reading 6 | 0.45 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| C05 | AF19912 | TRG | NO2NO3 - Reading 7 | 0.62 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| C05 | AF19912 | TRG | NO2NO3 - Reading 8 | 0.65 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| C05 | AF19912 | TRG | NO2NO3 - Reading 9 | 0.68 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| C05 | AF19912 | TRG | NO2NO3 - Reading 10 | 0.73 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| C05 | AF19912 | TRG | NO2NO3 - Final | 0.73 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| C05 | AF19912 | TRG | Non-Filtered BOD 60 - Reading 1 | 0.8 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| C05 | AF19912 | TRG | Non-Filtered BOD 60 - Reading 2 | 2.6 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| C05 | AF19912 | TRG | Non-Filtered BOD 60 - Reading 3 | 3.7 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| C05 | AF19912 | TRG | Non-Filtered BOD 60 - Reading 4 | 4.9 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| C05 | AF19912 | TRG | Non-Filtered BOD 60 - Reading 5 | 6.8 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| C05 | AF19912 | TRG | Non-Filtered BOD 60 - Reading 6 | 7.9 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| C05 | AF19912 | TRG | Non-Filtered BOD 60 - Reading 7 | 9.3 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| C05 | AF19912 | TRG | Non-Filtered BOD 60 - Reading 8 | 10.7 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| C05 | AF19912 | TRG | Non-Filtered BOD 60 - Reading 9 | 12.1 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| C05 | AF19912 | TRG | Non-Filtered BOD 60 - Reading 10 | 13.0 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| C05 | AF19912 | TRG | Non-Filtered BOD 60 - Final | 13.9 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| DC01 | AF19913 | TRG | TSS | 22.0 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| DC01 | AF19913 | TRG | TDS | 2638 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| DC01 | AF19913 | TRG | Alkalinity | 117 | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| DC01 | AF19913 | TRG | Turbidity | 16 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| DC01 | AF19913 | TRG | Specific Conductance | 4500 | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |
| DC01 | AF19913 | TRG | True Color | 60 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| DC01 | AF19913 | TRG | Chloride, Ion Chromatograph | 1504 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| DC01 | AF19913 | TRG | Sulfate | 136 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| DC01 | AF19914 | TRG | Sodium | 888 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| DC01 | AF19915 | TRG | Hardness | 540 | ppm | 130.2 | 9/18/2003 | 9/18/2003 | |
| DC01 | AF19915 | TRG | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| DC01 | AF19915 | TRG | TP | 0.25 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| DC01 | AF19915 | TRG | TKN | 2.63 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| DC01 | AF19915 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| DC01 | AF19916 | TRG | TOC | 19.4 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| DC01 | AF19917 | TRG | pH, Ultimate BOD survey | 7.92 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| DC01 | AF19917 | TRG | TOC (60 Day BOD) | 13.6 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| DC01 | AF19917 | TRG | TKN (60 Day BOD) | 1.18 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| DC01 | AF19917 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| DC01 | AF19917 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| DC01 | AF19917 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| DC01 | AF19917 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| DC01 | AF19917 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| DC01 | AF19917 | TRG | NO2NO3 - Reading 5 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| DC01 | AF19917 | TRG | NO2NO3 - Reading 6 | 0.21 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| DC01 | AF19917 | TRG | NO2NO3 - Reading 7 | 0.42 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| DC01 | AF19917 | TRG | NO2NO3 - Reading 8 | 0.81 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| DC01 | AF19917 | TRG | NO2NO3 - Reading 9 | 0.85 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| DC01 | AF19917 | TRG | NO2NO3 - Reading 10 | 0.95 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| DC01 | AF19917 | TRG | NO2NO3 - Final | 0.97 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| DC01 | AF19917 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.6 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| DC01 | AF19917 | TRG | Non-Filtered BOD 60 - Reading 2 | 5.6 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| DC01 | AF19917 | TRG | Non-Filtered BOD 60 - Reading 3 | 7.5 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| DC01 | AF19917 | TRG | Non-Filtered BOD 60 - Reading 4 | 8.6 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| DC01 | AF19917 | TRG | Non-Filtered BOD 60 - Reading 5 | 11.0 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| DC01 | AF19917 | TRG | Non-Filtered BOD 60 - Reading 6 | 13.7 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| DC01 | AF19917 | TRG | Non-Filtered BOD 60 - Reading 7 | 16.5 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| DC01 | AF19917 | TRG | Non-Filtered BOD 60 - Reading 8 | 19.7 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| DC01 | AF19917 | TRG | Non-Filtered BOD 60 - Reading 9 | 21.8 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| DC01 | AF19917 | TRG | Non-Filtered BOD 60 - Reading 10 | 23.2 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| DC01 | AF19917 | TRG | Non-Filtered BOD 60 - Final | 24.3 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| LB01 | AF19918 | TRG | TSS | 54.0 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| LB01 | AF19918 | TRG | TDS | 4556 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| LB01 | AF19918 | TRG | Alkalinity | 107 | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| LB01 | AF19918 | TRG | Turbidity | 40 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| LB01 | AF19918 | TRG | Specific Conductance | 7540 | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |
| LB01 | AF19918 | TRG | True Color | 45 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| LB01 | AF19918 | TRG | Chloride, Ion Chromatograph | 2729 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| LB01 | AF19918 | TRG | Sulfate | 304 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| LB01 | AF19919 | TRG | Sodium | 1580 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| LB01 | AF19920 | TRG | Hardness | 913 | ppm | 130.2 | 9/18/2003 | 9/18/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| LB01 | AF19920 | TRG | Nitrate+Nitrite Nitrogen | ND | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| LB01 | AF19920 | TRG | TP | 0.22 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| LB01 | AF19920 | TRG | TKN | 2.45 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| LB01 | AF19920 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| LB01 | AF19921 | TRG | TOC | 17.6 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| LB01 | AF19922 | TRG | pH, Ultimate BOD survey | 7.87 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| LB01 | AF19922 | TRG | TOC (60 Day BOD) | 10.3 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| LB01 | AF19922 | TRG | TKN (60 Day BOD) | 1.05 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| LB01 | AF19922 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| LB01 | AF19922 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| LB01 | AF19922 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| LB01 | AF19922 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| LB01 | AF19922 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| LB01 | AF19922 | TRG | NO2NO3 - Reading 5 | 0.09 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| LB01 | AF19922 | TRG | NO2NO3 - Reading 6 | 0.26 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| LB01 | AF19922 | TRG | NO2NO3 - Reading 7 | 0.51 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| LB01 | AF19922 | TRG | NO2NO3 - Reading 8 | 0.66 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| LB01 | AF19922 | TRG | NO2NO3 - Reading 9 | 0.72 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| LB01 | AF19922 | TRG | NO2NO3 - Reading 10 | 0.78 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| LB01 | AF19922 | TRG | NO2NO3 - Final | 0.80 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| LB01 | AF19922 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.1 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| LB01 | AF19922 | TRG | Non-Filtered BOD 60 - Reading 2 | 3.8 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| LB01 | AF19922 | TRG | Non-Filtered BOD 60 - Reading 3 | 5.2 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| LB01 | AF19922 | TRG | Non-Filtered BOD 60 - Reading 4 | 6.2 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| LB01 | AF19922 | TRG | Non-Filtered BOD 60 - Reading 5 | 8.5 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| LB01 | AF19922 | TRG | Non-Filtered BOD 60 - Reading 6 | 10.8 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| LB01 | AF19922 | TRG | Non-Filtered BOD 60 - Reading 7 | 13.2 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| LB01 | AF19922 | TRG | Non-Filtered BOD 60 - Reading 8 | 15.6 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| LB01 | AF19922 | TRG | Non-Filtered BOD 60 - Reading 9 | 17.5 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| LB01 | AF19922 | TRG | Non-Filtered BOD 60 - Reading 10 | 18.8 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| LB01 | AF19922 | TRG | Non-Filtered BOD 60 - Final | 19.6 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| LB01 | AF19923 | TRG | Volume of sample, Chlorophyll A (raw) | 160 | ml | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| LB01 | AF19923 | TRG | Chlorophyll A (calculated) | 40.5 | ug/L | 445 (modifie | 10/2/2003 | 10/7/2003 | |
| LB01 | AF19923 | TRG | Chlorophyll A (raw) | 648 | ug/L | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| LB02 | AF19943 | TRG | TSS | 21.0 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| LB02 | AF19943 | TRG | TDS | 5068 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| LB02 | AF19943 | TRG | Alkalinity | 106 | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| LB02 | AF19943 | TRG | Turbidity | 14 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| LB02 | AF19943 | TRG | Specific Conductance | 8140 | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |
| LB02 | AF19943 | TRG | True Color | 40 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| LB02 | AF19943 | TRG | Chloride, Ion Chromatograph | 2849 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| LB02 | AF19943 | TRG | Sulfate | 333 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| LB02 | AF19944 | TRG | Sodium | 1690 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| LB02 | AF19945 | TRG | Hardness | 981 | ppm | 130.2 | 9/18/2003 | 9/18/2003 | |
| LB02 | AF19945 | TRG | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| LB02 | AF19945 | TRG | TP | 0.20 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| LB02 | AF19945 | TRG | TKN | 1.48 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| LB02 | AF19945 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| LB02 | AF19946 | TRG | TOC | 14.9 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| LB02 | AF19947 | TRG | pH, Ultimate BOD survey | 7.82 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| LB02 | AF19947 | TRG | TOC (60 Day BOD) | 10.1 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| LB02 | AF19947 | TRG | TKN (60 Day BOD) | 0.91 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| LB02 | AF19947 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| LB02 | AF19947 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| LB02 | AF19947 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| LB02 | AF19947 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| LB02 | AF19947 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| LB02 | AF19947 | TRG | NO2NO3 - Reading 5 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| LB02 | AF19947 | TRG | NO2NO3 - Reading 6 | 0.05 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| LB02 | AF19947 | TRG | NO2NO3 - Reading 7 | 0.33 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| LB02 | AF19947 | TRG | NO2NO3 - Reading 8 | 0.58 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| LB02 | AF19947 | TRG | NO2NO3 - Reading 9 | 0.72 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| LB02 | AF19947 | TRG | NO2NO3 - Reading 10 | 0.79 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| LB02 | AF19947 | TRG | NO2NO3 - Final | 0.79 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| LB02 | AF19947 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.3 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| LB02 | AF19947 | TRG | Non-Filtered BOD 60 - Reading 2 | 4.0 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| LB02 | AF19947 | TRG | Non-Filtered BOD 60 - Reading 3 | 5.5 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| LB02 | AF19947 | TRG | Non-Filtered BOD 60 - Reading 4 | 6.5 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| LB02 | AF19947 | TRG | Non-Filtered BOD 60 - Reading 5 | 8.3 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| LB02 | AF19947 | TRG | Non-Filtered BOD 60 - Reading 6 | 10.0 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| LB02 | AF19947 | TRG | Non-Filtered BOD 60 - Reading 7 | 12.9 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| LB02 | AF19947 | TRG | Non-Filtered BOD 60 - Reading 8 | 15.4 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| LB02 | AF19947 | TRG | Non-Filtered BOD 60 - Reading 9 | 16.9 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| LB02 | AF19947 | TRG | Non-Filtered BOD 60 - Reading 10 | 18.0 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| LB02 | AF19947 | TRG | Non-Filtered BOD 60 - Final | 18.9 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| LB03 | AF19948 | TRG | TSS | 17.3 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| LB03 | AF19948 | TRG | TDS | 4976 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| LB03 | AF19948 | TRG | Alkalinity | 107 | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| LB03 | AF19948 | TRG | Turbidity | 14 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| LB03 | AF19948 | TRG | Specific Conductance | 8180 | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |
| LB03 | AF19948 | TRG | True Color | 40 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| LB03 | AF19948 | TRG | Chloride, Ion Chromatograph | 2511 | ppm | 300.0 | 9/30/2003 | 10/1/2003 | |
| LB03 | AF19948 | TRG | Sulfate | 339 | ppm | 300.0 | 9/30/2003 | 10/1/2003 | |
| LB03 | AF19949 | TRG | Sodium | 1660 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| LB03 | AF19950 | TRG | Hardness | 976 | ppm | 130.2 | 9/18/2003 | 9/18/2003 | |
| LB03 | AF19950 | TRG | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| LB03 | AF19950 | TRG | TP | 0.20 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| LB03 | AF19950 | TRG | TKN | 1.40 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| LB03 | AF19950 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| LB03 | AF19951 | TRG | TOC | 14.1 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| LB03 | AF19952 | TRG | pH, Ultimate BOD survey | 7.92 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| LB03 | AF19952 | TRG | TOC (60 Day BOD) | 9.6 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| LB03 | AF19952 | TRG | TKN (60 Day BOD) | 1.11 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| LB03 | AF19952 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| LB03 | AF19952 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| LB03 | AF19952 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| LB03 | AF19952 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| LB03 | AF19952 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| LB03 | AF19952 | TRG | NO2NO3 - Reading 5 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| LB03 | AF19952 | TRG | NO2NO3 - Reading 6 | 0.12 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| LB03 | AF19952 | TRG | NO2NO3 - Reading 7 | 0.29 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| LB03 | AF19952 | TRG | NO2NO3 - Reading 8 | 0.47 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/5/2003 |
| LB03 | AF19952 | TRG | NO2NO3 - Reading 9 | 0.58 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| LB03 | AF19952 | TRG | NO2NO3 - Reading 10 | 0.67 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| LB03 | AF19952 | TRG | NO2NO3 - Reading 11 | 0.70 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| LB03 | AF19952 | TRG | NO2NO3 - Final | 0.71 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| LB03 | AF19952 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.1 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| LB03 | AF19952 | TRG | Non-Filtered BOD 60 - Reading 2 | 3.6 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| LB03 | AF19952 | TRG | Non-Filtered BOD 60 - Reading 3 | 4.8 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| LB03 | AF19952 | TRG | Non-Filtered BOD 60 - Reading 4 | 5.5 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| LB03 | AF19952 | TRG | Non-Filtered BOD 60 - Reading 5 | 6.8 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| LB03 | AF19952 | TRG | Non-Filtered BOD 60 - Reading 6 | 8.6 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| LB03 | AF19952 | TRG | Non-Filtered BOD 60 - Reading 7 | 10.8 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| LB03 | AF19952 | TRG | Non-Filtered BOD 60 - Reading 8 | 12.2 | ppm | 5210B | 9/11/2003 | 10/5/2003 | |
| LB03 | AF19952 | TRG | Non-Filtered BOD 60 - Reading 9 | 13.0 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| LB03 | AF19952 | TRG | Non-Filtered BOD 60 - Reading 10 | 14.6 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| LB03 | AF19952 | TRG | Non-Filtered BOD 60 - Reading 11 | 15.7 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| LB03 | AF19952 | TRG | Non-Filtered BOD 60 - Final | 16.5 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| LB06 | AF19953 | TRG | TSS | 124 | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| LB06 | AF19953 | TRG | TDS | 5404 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| LB06 | AF19953 | TRG | Alkalinity | 109 | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| LB06 | AF19953 | TRG | Turbidity | 12 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| LB06 | AF19953 | TRG | Specific Conductance | 8940 | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |
| LB06 | AF19953 | TRG | True Color | 35 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| LB06 | AF19953 | TRG | Chloride, Ion Chromatograph | 3236 | ppm | 300.0 | 10/2/2003 | 10/2/2003 | |
| LB06 | AF19953 | TRG | Sulfate | 364 | ppm | 300.0 | 9/30/2003 | 10/1/2003 | |
| LB06 | AF19954 | TRG | Sodium | 1880 | ppm | 200.7 | 9/25/2003 | 9/25/2003 | |
| LB06 | AF19955 | TRG | Hardness | 1053 | ppm | 130.2 | 9/19/2003 | 9/19/2003 | |
| LB06 | AF19955 | TRG | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| LB06 | AF19955 | TRG | TP | 0.27 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| LB06 | AF19955 | TRG | TKN | 1.30 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| LB06 | AF19955 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| LB06 | AF19956 | TRG | TOC | 17.3 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| LB06 | AF19957 | TRG | pH, Ultimate BOD survey | 7.96 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| LB06 | AF19957 | TRG | TOC (60 Day BOD) | 9.7 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| LB06 | AF19957 | TRG | TKN (60 Day BOD) | 0.86 | ppm | 351.2 | 12/1/2003 | 12/1/2003 | |
| LB06 | AF19957 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| LB06 | AF19957 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| LB06 | AF19957 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| LB06 | AF19957 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| LB06 | AF19957 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| LB06 | AF19957 | TRG | NO2NO3 - Reading 5 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| LB06 | AF19957 | TRG | NO2NO3 - Reading 6 | 0.07 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| LB06 | AF19957 | TRG | NO2NO3 - Reading 7 | 0.29 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| LB06 | AF19957 | TRG | NO2NO3 - Reading 8 | 0.56 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| LB06 | AF19957 | TRG | NO2NO3 - Reading 9 | 0.67 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| LB06 | AF19957 | TRG | NO2NO3 - Reading 10 | 0.74 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |

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|---|---|---|---|---|---|---|---|---|---|
| LB06 | AF19957 | TRG | NO2NO3 - Final | 0.75 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| LB06 | AF19957 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.3 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| LB06 | AF19957 | TRG | Non-Filtered BOD 60 - Reading 2 | 3.8 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| LB06 | AF19957 | TRG | Non-Filtered BOD 60 - Reading 3 | 5.1 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| LB06 | AF19957 | TRG | Non-Filtered BOD 60 - Reading 4 | 5.8 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| LB06 | AF19957 | TRG | Non-Filtered BOD 60 - Reading 5 | 7.1 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| LB06 | AF19957 | TRG | Non-Filtered BOD 60 - Reading 6 | 8.4 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| LB06 | AF19957 | TRG | Non-Filtered BOD 60 - Reading 7 | 11.1 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| LB06 | AF19957 | TRG | Non-Filtered BOD 60 - Reading 8 | 13.8 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| LB06 | AF19957 | TRG | Non-Filtered BOD 60 - Reading 9 | 15.2 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| LB06 | AF19957 | TRG | Non-Filtered BOD 60 - Reading 10 | 16.2 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| LB06 | AF19957 | TRG | Non-Filtered BOD 60 - Final | 17.0 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| LB06 | AF19958 | TRG | Volume of sample, Chlorophyll A (raw) | 250 | ml | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| LB06 | AF19958 | TRG | Chlorophyll A (raw) | 680 | ug/L | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| LB06 | AF19958 | TRG | Chlorophyll A (calculated) | 27.2 | ug/L | 445 (modifie | 10/2/2003 | 10/7/2003 | |
| LB09 | AF19959 | FB | TSS | ND | ppm | 160.2 | 9/11/2003 | 9/12/2003 | |
| LB09 | AF19959 | FB | TDS | ND | ppm | 160.1 | 9/16/2003 | 9/16/2003 | |
| LB09 | AF19959 | FB | Alkalinity | ND | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| LB09 | AF19959 | FB | Turbidity | ND | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| LB09 | AF19959 | FB | Specific Conductance | ND | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |
| LB09 | AF19959 | FB | True Color | ND | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| LB09 | AF19959 | FB | Chloride, Ion Chromatograph | ND | ppm | 300.0 | 9/30/2003 | 10/1/2003 | |
| LB09 | AF19959 | FB | Sulfate | ND | ppm | 300.0 | 9/30/2003 | 10/1/2003 | |
| LB09 | AF19960 | FB | Sodium | ND | ppm | 200.7 | 9/29/2003 | 9/29/2003 | |
| LB09 | AF19961 | FB | Hardness | ND | ppm | 130.2 | 9/18/2003 | 9/18/2003 | |
| LB09 | AF19961 | FB | Nitrate+Nitrite Nitrogen | ND | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| LB09 | AF19961 | FB | TP | ND | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| LB09 | AF19961 | FB | TKN | 0.73 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| LB09 | AF19961 | FB | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| LB09 | AF19962 | FB | TOC | ND | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| LB09 | AF19963 | FB | pH, Ultimate BOD survey | 6.56 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| LB09 | AF19963 | FB | TOC (60 Day BOD) | ND | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| LB09 | AF19963 | FB | TKN (60 Day BOD) | ND | ppm | 351.2 | 12/2/2003 | 12/2/2003 | |
| LB09 | AF19963 | FB | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| LB09 | AF19963 | FB | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| LB09 | AF19963 | FB | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |

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|---|---|---|---|---|---|---|---|---|---|
| LB09 | AF19963 | FB | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| LB09 | AF19963 | FB | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| LB09 | AF19963 | FB | NO2NO3 - Reading 5 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| LB09 | AF19963 | FB | NO2NO3 - Reading 6 | ND | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| LB09 | AF19963 | FB | NO2NO3 - Reading 7 | ND | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| LB09 | AF19963 | FB | NO2NO3 - Reading 8 | ND | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| LB09 | AF19963 | FB | NO2NO3 - Reading 9 | ND | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| LB09 | AF19963 | FB | NO2NO3 - Reading 10 | ND | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| LB09 | AF19963 | FB | NO2NO3 - Final | ND | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| LB09 | AF19963 | FB | Non-Filtered BOD 60 - Reading 1 | 0.1 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| LB09 | AF19963 | FB | Non-Filtered BOD 60 - Reading 2 | 0.2 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| LB09 | AF19963 | FB | Non-Filtered BOD 60 - Reading 3 | 0.3 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| LB09 | AF19963 | FB | Non-Filtered BOD 60 - Reading 4 | 0.2 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| LB09 | AF19963 | FB | Non-Filtered BOD 60 - Reading 5 | 0.4 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| LB09 | AF19963 | FB | Non-Filtered BOD 60 - Reading 6 | 0.3 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| LB09 | AF19963 | FB | Non-Filtered BOD 60 - Reading 7 | 0.4 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| LB09 | AF19963 | FB | Non-Filtered BOD 60 - Reading 8 | 0.3 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| LB09 | AF19963 | FB | Non-Filtered BOD 60 - Reading 9 | 0.3 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| LB09 | AF19963 | FB | Non-Filtered BOD 60 - Reading 10 | 0.3 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| LB09 | AF19963 | FB | Non-Filtered BOD 60 - Final | 0.3 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| LB09 | AF19964 | TRG | TSS | 23.3 | ppm | 160.2 | 9/12/2003 | 9/15/2003 | |
| LB09 | AF19964 | TRG | TDS | 5890 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| LB09 | AF19964 | TRG | Alkalinity | 116 | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| LB09 | AF19964 | TRG | Turbidity | 14 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| LB09 | AF19964 | TRG | Specific Conductance | 9580 | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |
| LB09 | AF19964 | TRG | True Color | 40 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| LB09 | AF19964 | TRG | Chloride, Ion Chromatograph | 3558 | ppm | 300.0 | 10/2/2003 | 10/2/2003 | |
| LB09 | AF19964 | TRG | Sulfate | 339 | ppm | 300.0 | 9/30/2003 | 10/1/2003 | |
| LB09 | AF19965 | TRG | Sodium | 1960 | ppm | 200.7 | 9/29/2003 | 9/29/2003 | |
| LB09 | AF19966 | TRG | Hardness | 1154 | ppm | 130.2 | 9/19/2003 | 9/19/2003 | |
| LB09 | AF19966 | TRG | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| LB09 | AF19966 | TRG | TP | 0.24 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| LB09 | AF19966 | TRG | TKN | 1.44 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| LB09 | AF19966 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| LB09 | AF19967 | TRG | TOC | 15.4 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| LB09 | AF19968 | TRG | pH, Ultimate BOD survey | 7.93 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| LB09 | AF19968 | TRG | TOC (60 Day BOD) | 9.3 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| LB09 | AF19968 | TRG | TKN (60 Day BOD) | 0.96 | ppm | 351.2 | 12/2/2003 | 12/2/2003 | |
| LB09 | AF19968 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| LB09 | AF19968 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| LB09 | AF19968 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| LB09 | AF19968 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| LB09 | AF19968 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| LB09 | AF19968 | TRG | NO2NO3 - Reading 5 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| LB09 | AF19968 | TRG | NO2NO3 - Reading 6 | 0.11 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| LB09 | AF19968 | TRG | NO2NO3 - Reading 7 | 0.34 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| LB09 | AF19968 | TRG | NO2NO3 - Reading 8 | 0.64 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| LB09 | AF19968 | TRG | NO2NO3 - Reading 9 | 0.72 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| LB09 | AF19968 | TRG | NO2NO3 - Reading 10 | 0.79 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| LB09 | AF19968 | TRG | NO2NO3 - Final | 0.80 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| LB09 | AF19968 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.0 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| LB09 | AF19968 | TRG | Non-Filtered BOD 60 - Reading 2 | 3.4 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| LB09 | AF19968 | TRG | Non-Filtered BOD 60 - Reading 3 | 4.8 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| LB09 | AF19968 | TRG | Non-Filtered BOD 60 - Reading 4 | 5.8 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| LB09 | AF19968 | TRG | Non-Filtered BOD 60 - Reading 5 | 7.7 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| LB09 | AF19968 | TRG | Non-Filtered BOD 60 - Reading 6 | 9.9 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| LB09 | AF19968 | TRG | Non-Filtered BOD 60 - Reading 7 | 12.7 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| LB09 | AF19968 | TRG | Non-Filtered BOD 60 - Reading 8 | 15.5 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| LB09 | AF19968 | TRG | Non-Filtered BOD 60 - Reading 9 | 17.0 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| LB09 | AF19968 | TRG | Non-Filtered BOD 60 - Reading 10 | 18.0 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| LB09 | AF19968 | TRG | Non-Filtered BOD 60 - Final | 18.8 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| LB09 | AF19969 | FD | TSS | 17.3 | ppm | 160.2 | 9/12/2003 | 9/15/2003 | |
| LB09 | AF19969 | FD | TDS | 5800 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| LB09 | AF19969 | FD | Alkalinity | 115 | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| LB09 | AF19969 | FD | Turbidity | 14 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| LB09 | AF19969 | FD | Specific Conductance | 9610 | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |
| LB09 | AF19969 | FD | True Color | 40 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| LB09 | AF19969 | FD | Chloride, Ion Chromatograph | 2700 | ppm | 300.0 | 9/30/2003 | 10/1/2003 | |
| LB09 | AF19969 | FD | Sulfate | 412 | ppm | 300.0 | 9/30/2003 | 10/1/2003 | |
| LB09 | AF19970 | FD | Sodium | 1950 | ppm | 200.7 | 9/29/2003 | 9/29/2003 | |
| LB09 | AF19971 | FD | Hardness | 1172 | ppm | 130.2 | 9/19/2003 | 9/19/2003 | |
| LB09 | AF19971 | FD | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| LB09 | AF19971 | FD | TP | 0.22 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| LB09 | AF19971 | FD | TKN | 1.73 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| LB09 | AF19971 | FD | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/16/2003 | 9/16/2003 | |
| LB09 | AF19972 | FD | TOC | 14.6 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| LB09 | AF19973 | FD | pH, Ultimate BOD survey | 7.88 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| LB09 | AF19973 | FD | TOC (60 Day BOD) | 9.5 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| LB09 | AF19973 | FD | TKN (60 Day BOD) | 0.89 | ppm | 351.2 | 12/2/2003 | 12/2/2003 | |
| LB09 | AF19973 | FD | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| LB09 | AF19973 | FD | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| LB09 | AF19973 | FD | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| LB09 | AF19973 | FD | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| LB09 | AF19973 | FD | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| LB09 | AF19973 | FD | NO2NO3 - Reading 5 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| LB09 | AF19973 | FD | NO2NO3 - Reading 6 | 0.09 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| LB09 | AF19973 | FD | NO2NO3 - Reading 7 | 0.36 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| LB09 | AF19973 | FD | NO2NO3 - Reading 8 | 0.63 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| LB09 | AF19973 | FD | NO2NO3 - Reading 9 | 0.72 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| LB09 | AF19973 | FD | NO2NO3 - Reading 10 | 0.79 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| LB09 | AF19973 | FD | NO2NO3 - Final | 0.79 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| LB09 | AF19973 | FD | Non-Filtered BOD 60 - Reading 1 | 1.1 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| LB09 | AF19973 | FD | Non-Filtered BOD 60 - Reading 2 | 3.4 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| LB09 | AF19973 | FD | Non-Filtered BOD 60 - Reading 3 | 4.8 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| LB09 | AF19973 | FD | Non-Filtered BOD 60 - Reading 4 | 5.7 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| LB09 | AF19973 | FD | Non-Filtered BOD 60 - Reading 5 | 7.3 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| LB09 | AF19973 | FD | Non-Filtered BOD 60 - Reading 6 | 9.6 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| LB09 | AF19973 | FD | Non-Filtered BOD 60 - Reading 7 | 12.3 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| LB09 | AF19973 | FD | Non-Filtered BOD 60 - Reading 8 | 15.2 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| LB09 | AF19973 | FD | Non-Filtered BOD 60 - Reading 9 | 16.7 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| LB09 | AF19973 | FD | Non-Filtered BOD 60 - Reading 10 | 17.7 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| LB09 | AF19973 | FD | Non-Filtered BOD 60 - Final | 18.4 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| LB011 | AF19974 | FB | TSS | ND | ppm | 160.2 | 9/12/2003 | 9/15/2003 | |
| LB011 | AF19974 | FB | TDS | ND | ppm | 160.1 | 9/16/2003 | 9/16/2003 | |
| LB011 | AF19974 | FB | Alkalinity | ND | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| LB011 | AF19974 | FB | Turbidity | ND | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| LB011 | AF19974 | FB | Specific Conductance | ND | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |
| LB011 | AF19974 | FB | True Color | ND | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| LB011 | AF19974 | FB | Chloride, Ion Chromatograph | ND | ppm | 300.0 | 9/30/2003 | 10/1/2003 | |
| LB011 | AF19974 | FB | Sulfate | ND | ppm | 300.0 | 9/30/2003 | 10/1/2003 | |
| LB011 | AF19975 | FB | Sodium | ND | ppm | 200.7 | 9/29/2003 | 9/29/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| LB011 | AF19976 | FB | Hardness | ND | ppm | 130.2 | 9/18/2003 | 9/18/2003 | |
| LB011 | AF19976 | FB | Nitrate+Nitrite Nitrogen | ND | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| LB011 | AF19976 | FB | TP | ND | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| LB011 | AF19976 | FB | TKN | 0.15 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| LB011 | AF19976 | FB | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/17/2003 | 9/17/2003 | |
| LB011 | AF19977 | FB | TOC | ND | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| LB011 | AF19978 | FB | pH, Ultimate BOD survey | 6.48 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| LB011 | AF19978 | FB | TOC (60 Day BOD) | ND | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| LB011 | AF19978 | FB | TKN (60 Day BOD) | 0.13 | ppm | 351.2 | 12/2/2003 | 12/2/2003 | |
| LB011 | AF19978 | FB | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| LB011 | AF19978 | FB | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| LB011 | AF19978 | FB | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| LB011 | AF19978 | FB | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| LB011 | AF19978 | FB | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| LB011 | AF19978 | FB | NO2NO3 - Reading 5 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| LB011 | AF19978 | FB | NO2NO3 - Reading 6 | ND | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| LB011 | AF19978 | FB | NO2NO3 - Reading 7 | ND | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| LB011 | AF19978 | FB | NO2NO3 - Reading 8 | ND | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| LB011 | AF19978 | FB | NO2NO3 - Reading 9 | ND | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| LB011 | AF19978 | FB | NO2NO3 - Reading 10 | ND | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| LB011 | AF19978 | FB | NO2NO3 - Final | ND | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| LB011 | AF19978 | FB | Non-Filtered BOD 60 - Reading 1 | 0.1 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| LB011 | AF19978 | FB | Non-Filtered BOD 60 - Reading 2 | 0.2 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| LB011 | AF19978 | FB | Non-Filtered BOD 60 - Reading 3 | 0.3 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| LB011 | AF19978 | FB | Non-Filtered BOD 60 - Reading 4 | 0.3 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| LB011 | AF19978 | FB | Non-Filtered BOD 60 - Reading 5 | 0.4 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| LB011 | AF19978 | FB | Non-Filtered BOD 60 - Reading 6 | 0.4 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| LB011 | AF19978 | FB | Non-Filtered BOD 60 - Reading 7 | 0.5 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| LB011 | AF19978 | FB | Non-Filtered BOD 60 - Reading 8 | 0.5 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| LB011 | AF19978 | FB | Non-Filtered BOD 60 - Reading 9 | 0.5 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| LB011 | AF19978 | FB | Non-Filtered BOD 60 - Reading 10 | 0.5 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| LB011 | AF19978 | FB | Non-Filtered BOD 60 - Final | 0.5 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| LB011 | AF19979 | TRG | TSS | 15.3 | ppm | 160.2 | 9/12/2003 | 9/15/2003 | |
| LB011 | AF19979 | TRG | TDS | 8390 | ppm | 160.1 | 9/16/2003 | 9/16/2003 | |
| LB011 | AF19979 | TRG | Alkalinity | 107 | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| LB011 | AF19979 | TRG | Turbidity | 8.9 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| LB011 | AF19979 | TRG | Specific Conductance | 14160 | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| LB011 | AF19979 | TRG | True Color | 25 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| LB011 | AF19979 | TRG | Chloride, Ion Chromatograph | 5164 | ppm | 300.0 | 9/30/2003 | 10/1/2003 | |
| LB011 | AF19979 | TRG | Sulfate | 695 | ppm | 300.0 | 10/2/2003 | 10/2/2003 | |
| LB011 | AF19980 | TRG | Sodium | 2930 | ppm | 200.7 | 9/29/2003 | 9/29/2003 | |
| LB011 | AF19981 | TRG | Hardness | 1699 | ppm | 130.2 | 9/19/2003 | 9/19/2003 | |
| LB011 | AF19981 | TRG | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| LB011 | AF19981 | TRG | TP | 0.16 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| LB011 | AF19981 | TRG | TKN | 1.37 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| LB011 | AF19981 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/17/2003 | 9/17/2003 | |
| LB011 | AF19982 | TRG | TOC | 11.2 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| LB011 | AF19983 | TRG | pH, Ultimate BOD survey | 7.64 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| LB011 | AF19983 | TRG | TOC (60 Day BOD) | 7.9 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| LB011 | AF19983 | TRG | TKN (60 Day BOD) | 0.56 | ppm | 351.2 | 12/2/2003 | 12/2/2003 | |
| LB011 | AF19983 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| LB011 | AF19983 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| LB011 | AF19983 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| LB011 | AF19983 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| LB011 | AF19983 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| LB011 | AF19983 | TRG | NO2NO3 - Reading 5 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| LB011 | AF19983 | TRG | NO2NO3 - Reading 6 | ND | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| LB011 | AF19983 | TRG | NO2NO3 - Reading 7 | 0.08 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| LB011 | AF19983 | TRG | NO2NO3 - Reading 8 | 0.32 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| LB011 | AF19983 | TRG | NO2NO3 - Reading 9 | 0.42 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| LB011 | AF19983 | TRG | NO2NO3 - Reading 10 | 0.47 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| LB011 | AF19983 | TRG | NO2NO3 - Final | 0.50 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| LB011 | AF19983 | TRG | Non-Filtered BOD 60 - Reading 1 | 0.7 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| LB011 | AF19983 | TRG | Non-Filtered BOD 60 - Reading 2 | 2.4 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| LB011 | AF19983 | TRG | Non-Filtered BOD 60 - Reading 3 | 3.3 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| LB011 | AF19983 | TRG | Non-Filtered BOD 60 - Reading 4 | 3.8 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| LB011 | AF19983 | TRG | Non-Filtered BOD 60 - Reading 5 | 4.7 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| LB011 | AF19983 | TRG | Non-Filtered BOD 60 - Reading 6 | 5.5 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| LB011 | AF19983 | TRG | Non-Filtered BOD 60 - Reading 7 | 6.9 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| LB011 | AF19983 | TRG | Non-Filtered BOD 60 - Reading 8 | 8.9 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| LB011 | AF19983 | TRG | Non-Filtered BOD 60 - Reading 9 | 10.1 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| LB011 | AF19983 | TRG | Non-Filtered BOD 60 - Reading 10 | 11.1 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| LB011 | AF19983 | TRG | Non-Filtered BOD 60 - Final | 11.8 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| LB011 | AF19984 | FD | TSS | 24.0 | ppm | 160.2 | 9/12/2003 | 9/15/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| LB011 | AF19984 | FD | TDS | 8750 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| LB011 | AF19984 | FD | Alkalinity | 107 | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| LB011 | AF19984 | FD | Turbidity | 8.8 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| LB011 | AF19984 | FD | Specific Conductance | 14150 | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |
| LB011 | AF19984 | FD | True Color | 25 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| LB011 | AF19984 | FD | Chloride, Ion Chromatograph | 5024 | ppm | 300.0 | 9/30/2003 | 10/1/2003 | |
| LB011 | AF19984 | FD | Sulfate | 680 | ppm | 300.0 | 10/2/2003 | 10/2/2003 | |
| LB011 | AF19985 | FD | Sodium | 2890 | ppm | 200.7 | 9/29/2003 | 9/29/2003 | |
| LB011 | AF19986 | FD | Hardness | 1682 | ppm | 130.2 | 9/19/2003 | 9/19/2003 | |
| LB011 | AF19986 | FD | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| LB011 | AF19986 | FD | TP | 0.16 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| LB011 | AF19986 | FD | TKN | 1.12 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| LB011 | AF19986 | FD | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/17/2003 | 9/17/2003 | |
| LB011 | AF19987 | FD | TOC | 10.0 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| LB011 | AF19988 | FD | pH, Ultimate BOD survey | 7.64 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| LB011 | AF19988 | FD | TOC (60 Day BOD) | 8.2 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| LB011 | AF19988 | FD | TKN (60 Day BOD) | 0.46 | ppm | 351.2 | 12/2/2003 | 12/2/2003 | |
| LB011 | AF19988 | FD | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| LB011 | AF19988 | FD | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| LB011 | AF19988 | FD | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| LB011 | AF19988 | FD | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| LB011 | AF19988 | FD | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| LB011 | AF19988 | FD | NO2NO3 - Reading 5 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| LB011 | AF19988 | FD | NO2NO3 - Reading 6 | ND | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| LB011 | AF19988 | FD | NO2NO3 - Reading 7 | 0.13 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| LB011 | AF19988 | FD | NO2NO3 - Reading 8 | 0.36 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| LB011 | AF19988 | FD | NO2NO3 - Reading 9 | 0.47 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| LB011 | AF19988 | FD | NO2NO3 - Reading 10 | 0.52 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| LB011 | AF19988 | FD | NO2NO3 - Final | 0.53 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| LB011 | AF19988 | FD | Non-Filtered BOD 60 - Reading 1 | 0.8 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| LB011 | AF19988 | FD | Non-Filtered BOD 60 - Reading 2 | 2.7 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| LB011 | AF19988 | FD | Non-Filtered BOD 60 - Reading 3 | 3.6 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| LB011 | AF19988 | FD | Non-Filtered BOD 60 - Reading 4 | 4.1 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| LB011 | AF19988 | FD | Non-Filtered BOD 60 - Reading 5 | 5.2 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| LB011 | AF19988 | FD | Non-Filtered BOD 60 - Reading 6 | 6.0 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| LB011 | AF19988 | FD | Non-Filtered BOD 60 - Reading 7 | 7.7 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| LB011 | AF19988 | FD | Non-Filtered BOD 60 - Reading 8 | 9.6 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| LB011 | AF19988 | FD | Non-Filtered BOD 60 - Reading 9 | 11.1 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| LB011 | AF19988 | FD | Non-Filtered BOD 60 - Reading 10 | 11.9 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| LB011 | AF19988 | FD | Non-Filtered BOD 60 - Final | 12.5 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| MC01 | AF19989 | TRG | TSS | 38.0 | ppm | 160.2 | 9/12/2003 | 9/15/2003 | |
| MC01 | AF19989 | TRG | TDS | 8860 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| MC01 | AF19989 | TRG | Alkalinity | 108 | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| MC01 | AF19989 | TRG | Turbidity | 18 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| MC01 | AF19989 | TRG | Specific Conductance | 14130 | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |
| MC01 | AF19989 | TRG | True Color | 25 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| MC01 | AF19989 | TRG | Chloride, Ion Chromatograph | 5141 | ppm | 300.0 | 9/30/2003 | 10/1/2003 | |
| MC01 | AF19989 | TRG | Sulfate | 721 | ppm | 300.0 | 10/2/2003 | 10/2/2003 | |
| MC01 | AF19990 | TRG | Sodium | 2940 | ppm | 200.7 | 9/29/2003 | 9/29/2003 | |
| MC01 | AF19991 | TRG | Hardness | 1807 | ppm | 130.2 | 9/19/2003 | 9/19/2003 | |
| MC01 | AF19991 | TRG | Nitrate+Nitrite Nitrogen | 0.06 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| MC01 | AF19991 | TRG | TP | 0.19 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| MC01 | AF19991 | TRG | TKN | 1.14 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| MC01 | AF19991 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/17/2003 | 9/17/2003 | |
| MC01 | AF19992 | TRG | TOC | 10.6 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| MC01 | AF19993 | TRG | pH, Ultimate BOD survey | 7.90 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| MC01 | AF19993 | TRG | TOC (60 Day BOD) | 7.4 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| MC01 | AF19993 | TRG | TKN (60 Day BOD) | ND | ppm | 351.2 | 12/2/2003 | 12/2/2003 | |
| MC01 | AF19993 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| MC01 | AF19993 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| MC01 | AF19993 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| MC01 | AF19993 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| MC01 | AF19993 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| MC01 | AF19993 | TRG | NO2NO3 - Reading 5 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| MC01 | AF19993 | TRG | NO2NO3 - Reading 6 | 0.17 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| MC01 | AF19993 | TRG | NO2NO3 - Reading 7 | 0.33 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| MC01 | AF19993 | TRG | NO2NO3 - Reading 8 | 0.48 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| MC01 | AF19993 | TRG | NO2NO3 - Reading 9 | 0.49 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| MC01 | AF19993 | TRG | NO2NO3 - Reading 10 | 0.55 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| MC01 | AF19993 | TRG | NO2NO3 - Final | 0.57 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| MC01 | AF19993 | TRG | Non-Filtered BOD 60 - Reading 1 | 0.9 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| MC01 | AF19993 | TRG | Non-Filtered BOD 60 - Reading 2 | 2.6 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| MC01 | AF19993 | TRG | Non-Filtered BOD 60 - Reading 3 | 6.3 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| MC01 | AF19993 | TRG | Non-Filtered BOD 60 - Reading 4 | 4.1 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| MC01 | AF19993 | TRG | Non-Filtered BOD 60 - Reading 5 | 5.0 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| MC01 | AF19993 | TRG | Non-Filtered BOD 60 - Reading 6 | 6.4 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| MC01 | AF19993 | TRG | Non-Filtered BOD 60 - Reading 7 | 8.0 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| MC01 | AF19993 | TRG | Non-Filtered BOD 60 - Reading 8 | 9.4 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| MC01 | AF19993 | TRG | Non-Filtered BOD 60 - Reading 9 | 10.3 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| MC01 | AF19993 | TRG | Non-Filtered BOD 60 - Reading 10 | 10.9 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| MC01 | AF19993 | TRG | Non-Filtered BOD 60 - Final | 11.5 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| MC01 | AF19994 | TRG | Chlorophyll A (calculated) | 16.8 | ug/L | 445 (modifie | 10/2/2003 | 10/7/2003 | |
| MC01 | AF19994 | TRG | Volume of sample, Chlorophyll A (raw) | 250 | ml | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| MC01 | AF19994 | TRG | Chlorophyll A (raw) | 420 | ug/L | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| NC02 | AF19995 | TRG | TSS | 27.0 | ppm | 160.2 | 9/12/2003 | 9/15/2003 | |
| NC02 | AF19995 | TRG | TDS | 4444 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| NC02 | AF19995 | TRG | Alkalinity | 111 | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| NC02 | AF19995 | TRG | Turbidity | 18 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| NC02 | AF19995 | TRG | Specific Conductance | 7540 | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |
| NC02 | AF19995 | TRG | True Color | 45 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| NC02 | AF19995 | TRG | Chloride, Ion Chromatograph | 2513 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| NC02 | AF19995 | TRG | Sulfate | 29 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| NC02 | AF19996 | TRG | Sodium | 1450 | ppm | 200.7 | 9/29/2003 | 9/29/2003 | |
| NC02 | AF19997 | TRG | Hardness | 881 | ppm | 130.2 | 9/19/2003 | 9/19/2003 | |
| NC02 | AF19997 | TRG | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| NC02 | AF19997 | TRG | TP | 0.22 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| NC02 | AF19997 | TRG | TKN | 1.70 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| NC02 | AF19997 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/17/2003 | 9/17/2003 | |
| NC02 | AF19998 | TRG | TOC | 14.0 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| NC02 | AF19999 | TRG | pH, Ultimate BOD survey | 7.99 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| NC02 | AF19999 | TRG | TOC (60 Day BOD) | 11.6 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| NC02 | AF19999 | TRG | TKN (60 Day BOD) | 0.79 | ppm | 351.2 | 12/2/2003 | 12/2/2003 | |
| NC02 | AF19999 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| NC02 | AF19999 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| NC02 | AF19999 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| NC02 | AF19999 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| NC02 | AF19999 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| NC02 | AF19999 | TRG | NO2NO3 - Reading 5 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| NC02 | AF19999 | TRG | NO2NO3 - Reading 6 | 0.09 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| NC02 | AF19999 | TRG | NO2NO3 - Reading 7 | 0.35 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |

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|---|---|---|---|---|---|---|---|---|---|
| NC02 | AF19999 | TRG | NO2NO3 - Reading 8 | 0.60 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| NC02 | AF19999 | TRG | NO2NO3 - Reading 9 | 0.67 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| NC02 | AF19999 | TRG | NO2NO3 - Reading 10 | 0.75 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| NC02 | AF19999 | TRG | NO2NO3 - Final | 0.77 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| NC02 | AF19999 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.4 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| NC02 | AF19999 | TRG | Non-Filtered BOD 60 - Reading 2 | 4.5 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| NC02 | AF19999 | TRG | Non-Filtered BOD 60 - Reading 3 | 5.9 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| NC02 | AF19999 | TRG | Non-Filtered BOD 60 - Reading 4 | 7.0 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| NC02 | AF19999 | TRG | Non-Filtered BOD 60 - Reading 5 | 9.0 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| NC02 | AF19999 | TRG | Non-Filtered BOD 60 - Reading 6 | 10.7 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| NC02 | AF19999 | TRG | Non-Filtered BOD 60 - Reading 7 | 13.3 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| NC02 | AF19999 | TRG | Non-Filtered BOD 60 - Reading 8 | 15.6 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| NC02 | AF19999 | TRG | Non-Filtered BOD 60 - Reading 9 | 17.5 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| NC02 | AF19999 | TRG | Non-Filtered BOD 60 - Reading 10 | 18.7 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| NC02 | AF19999 | TRG | Non-Filtered BOD 60 - Final | 19.6 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| PC01 | AF20000 | TRG | TSS | 28.0 | ppm | 160.2 | 9/12/2003 | 9/15/2003 | |
| PC01 | AF20000 | TRG | TDS | 6800 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| PC01 | AF20000 | TRG | Alkalinity | 109 | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| PC01 | AF20000 | TRG | Turbidity | 16 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| PC01 | AF20000 | TRG | Specific Conductance | 11170 | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |
| PC01 | AF20000 | TRG | True Color | 30 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| PC01 | AF20000 | TRG | Chloride, Ion Chromatograph | 3966 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| PC01 | AF20000 | TRG | Sulfate | 502 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| PC01 | AF20001 | TRG | Sodium | 2300 | ppm | 200.7 | 9/29/2003 | 9/29/2003 | |
| PC01 | AF20002 | TRG | Hardness | 1331 | ppm | 130.2 | 9/19/2003 | 9/19/2003 | |
| PC01 | AF20002 | TRG | Nitrate+Nitrite Nitrogen | 0.06 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| PC01 | AF20002 | TRG | TP | 0.22 | ppm | 365.4 | 9/17/2003 | 9/17/2003 | |
| PC01 | AF20002 | TRG | TKN | 1.63 | ppm | 351.2 | 9/17/2003 | 9/17/2003 | |
| PC01 | AF20002 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/17/2003 | 9/17/2003 | |
| PC01 | AF20003 | TRG | TOC | 13.6 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| PC01 | AF20004 | TRG | pH, Ultimate BOD survey | 7.92 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| PC01 | AF20004 | TRG | TOC (60 Day BOD) | 10.2 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| PC01 | AF20004 | TRG | TKN (60 Day BOD) | 0.78 | ppm | 351.2 | 12/2/2003 | 12/2/2003 | |
| PC01 | AF20004 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| PC01 | AF20004 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| PC01 | AF20004 | TRG | NO2NO3 - Reading 2 | 0.05 | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| PC01 | AF20004 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |

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|---|---|---|---|---|---|---|---|---|---|
| PC01 | AF20004 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| PC01 | AF20004 | TRG | NO2NO3 - Reading 5 | 0.08 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| PC01 | AF20004 | TRG | NO2NO3 - Reading 6 | 0.36 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| PC01 | AF20004 | TRG | NO2NO3 - Reading 7 | 0.56 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| PC01 | AF20004 | TRG | NO2NO3 - Reading 8 | 0.73 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| PC01 | AF20004 | TRG | NO2NO3 - Reading 9 | 0.78 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| PC01 | AF20004 | TRG | NO2NO3 - Reading 10 | 0.85 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| PC01 | AF20004 | TRG | NO2NO3 - Final | 0.85 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| PC01 | AF20004 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.5 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| PC01 | AF20004 | TRG | Non-Filtered BOD 60 - Reading 2 | 3.8 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| PC01 | AF20004 | TRG | Non-Filtered BOD 60 - Reading 3 | 4.9 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| PC01 | AF20004 | TRG | Non-Filtered BOD 60 - Reading 4 | 5.6 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| PC01 | AF20004 | TRG | Non-Filtered BOD 60 - Reading 5 | 6.9 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| PC01 | AF20004 | TRG | Non-Filtered BOD 60 - Reading 6 | 9.3 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| PC01 | AF20004 | TRG | Non-Filtered BOD 60 - Reading 7 | 11.2 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| PC01 | AF20004 | TRG | Non-Filtered BOD 60 - Reading 8 | 12.9 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| PC01 | AF20004 | TRG | Non-Filtered BOD 60 - Reading 9 | 13.9 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| PC01 | AF20004 | TRG | Non-Filtered BOD 60 - Reading 10 | 14.6 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| PC01 | AF20004 | TRG | Non-Filtered BOD 60 - Final | 15.3 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| PC01 | AF20005 | TRG | Chlorophyll A (raw) | 548 | ug/L | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| PC01 | AF20005 | TRG | Chlorophyll A (calculated) | 21.9 | ug/L | 445 (modifie | 10/2/2003 | 10/7/2003 | |
| PC01 | AF20005 | TRG | Volume of sample, Chlorophyll A (raw) | 250 | ml | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| PC02 | AF20006 | TRG | TSS | 23.3 | ppm | 160.2 | 9/12/2003 | 9/15/2003 | |
| PC02 | AF20006 | TRG | TDS | 11020 | ppm | 160.1 | 9/22/2003 | 9/22/2003 | |
| PC02 | AF20006 | TRG | Alkalinity | 105 | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| PC02 | AF20006 | TRG | Turbidity | 9.5 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| PC02 | AF20006 | TRG | Specific Conductance | 15770 | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |
| PC02 | AF20006 | TRG | True Color | 20 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| PC02 | AF20006 | TRG | Chloride, Ion Chromatograph | 5977 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| PC02 | AF20006 | TRG | Sulfate | 771 | ppm | 300.0 | 10/2/2003 | 10/2/2003 | |
| PC02 | AF20007 | TRG | Sodium | 3360 | ppm | 200.7 | 9/29/2003 | 9/29/2003 | |
| PC02 | AF20008 | TRG | Hardness | 1918 | ppm | 130.2 | 9/19/2003 | 9/19/2003 | |
| PC02 | AF20008 | TRG | Nitrate+Nitrite Nitrogen | 0.07 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| PC02 | AF20008 | TRG | TP | 0.15 | ppm | 365.4 | 9/22/2003 | 9/22/2003 | |
| PC02 | AF20008 | TRG | TKN | 1.36 | ppm | 351.2 | 9/22/2003 | 9/22/2003 | |
| PC02 | AF20008 | TRG | Ammonia-Nitrogen | 0.18 | ppm | 350.3 | 9/17/2003 | 9/17/2003 | |

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|---|---|---|---|---|---|---|---|---|---|
| PC02 | AF20009 | TRG | TOC | 9.6 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| PC02 | AF20010 | TRG | pH, Ultimate BOD survey | 7.92 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| PC02 | AF20010 | TRG | TOC (60 Day BOD) | 8.0 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| PC02 | AF20010 | TRG | TKN (60 Day BOD) | ND | ppm | 351.2 | 12/2/2003 | 12/2/2003 | |
| PC02 | AF20010 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| PC02 | AF20010 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| PC02 | AF20010 | TRG | NO2NO3 - Reading 2 | 0.05 | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| PC02 | AF20010 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| PC02 | AF20010 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| PC02 | AF20010 | TRG | NO2NO3 - Reading 5 | 0.06 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| PC02 | AF20010 | TRG | NO2NO3 - Reading 6 | 0.20 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| PC02 | AF20010 | TRG | NO2NO3 - Reading 7 | 0.35 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/1/2003 |
| PC02 | AF20010 | TRG | NO2NO3 - Reading 8 | 0.48 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| PC02 | AF20010 | TRG | NO2NO3 - Reading 9 | 0.51 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| PC02 | AF20010 | TRG | NO2NO3 - Reading 10 | 0.56 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| PC02 | AF20010 | TRG | NO2NO3 - Final | 0.57 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| PC02 | AF20010 | TRG | Non-Filtered BOD 60 - Reading 1 | 0.6 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| PC02 | AF20010 | TRG | Non-Filtered BOD 60 - Reading 2 | 1.9 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| PC02 | AF20010 | TRG | Non-Filtered BOD 60 - Reading 3 | 2.5 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| PC02 | AF20010 | TRG | Non-Filtered BOD 60 - Reading 4 | 3.0 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| PC02 | AF20010 | TRG | Non-Filtered BOD 60 - Reading 5 | 3.9 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| PC02 | AF20010 | TRG | Non-Filtered BOD 60 - Reading 6 | 5.3 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| PC02 | AF20010 | TRG | Non-Filtered BOD 60 - Reading 7 | 6.7 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| PC02 | AF20010 | TRG | Non-Filtered BOD 60 - Reading 8 | 7.8 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| PC02 | AF20010 | TRG | Non-Filtered BOD 60 - Reading 9 | 8.6 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| PC02 | AF20010 | TRG | Non-Filtered BOD 60 - Reading 10 | 9.2 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| PC02 | AF20010 | TRG | Non-Filtered BOD 60 - Final | 9.6 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| PC02 | AF20011 | TRG | Chlorophyll A (calculated) | 10.6 | ug/L | 445 (modifie | 10/2/2003 | 10/7/2003 | |
| PC02 | AF20011 | TRG | Chlorophyll A (raw) | 266 | ug/L | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| PC02 | AF20011 | TRG | Volume of sample, Chlorophyll A (raw) | 250 | ml | 445 (modifie | 10/2/2003 | 10/3/2003 | |
| SL01 | AF20012 | TRG | TSS | 20.7 | ppm | 160.2 | 9/12/2003 | 9/15/2003 | |
| SL01 | AF20012 | TRG | TDS | 722 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |
| SL01 | AF20012 | TRG | Alkalinity | 127 | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| SL01 | AF20012 | TRG | Turbidity | 15 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| SL01 | AF20012 | TRG | Specific Conductance | 1240 | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |
| SL01 | AF20012 | TRG | True Color | 110 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SL01 | AF20012 | TRG | Chloride, Ion Chromatograph | 295 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| SL01 | AF20012 | TRG | Sulfate | 13.3 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| SL01 | AF20013 | TRG | Sodium | 194 | ppm | 200.7 | 9/29/2003 | 9/29/2003 | |
| SL01 | AF20014 | TRG | Hardness | 203 | ppm | 130.2 | 9/19/2003 | 9/19/2003 | |
| SL01 | AF20014 | TRG | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| SL01 | AF20014 | TRG | TP | 0.48 | ppm | 365.4 | 9/22/2003 | 9/22/2003 | |
| SL01 | AF20014 | TRG | TKN | 1.64 | ppm | 351.2 | 9/22/2003 | 9/22/2003 | |
| SL01 | AF20014 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/17/2003 | 9/17/2003 | |
| SL01 | AF20015 | TRG | TOC | 25.1 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| SL01 | AF20016 | TRG | pH, Ultimate BOD survey | 8.02 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| SL01 | AF20016 | TRG | TOC (60 Day BOD) | 20.4 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| SL01 | AF20016 | TRG | TKN (60 Day BOD) | 0.85 | ppm | 351.2 | 11/20/2003 | 11/20/2003 | |
| SL01 | AF20016 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| SL01 | AF20016 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| SL01 | AF20016 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| SL01 | AF20016 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| SL01 | AF20016 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| SL01 | AF20016 | TRG | NO2NO3 - Reading 5 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| SL01 | AF20016 | TRG | NO2NO3 - Reading 6 | 0.14 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| SL01 | AF20016 | TRG | NO2NO3 - Reading 7 | 0.39 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| SL01 | AF20016 | TRG | NO2NO3 - Reading 8 | 0.44 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| SL01 | AF20016 | TRG | NO2NO3 - Reading 9 | 0.47 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| SL01 | AF20016 | TRG | NO2NO3 - Reading 10 | 0.53 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| SL01 | AF20016 | TRG | NO2NO3 - Final | 0.54 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| SL01 | AF20016 | TRG | Non-Filtered BOD 60 - Reading 1 | 1.1 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| SL01 | AF20016 | TRG | Non-Filtered BOD 60 - Reading 2 | 3.7 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| SL01 | AF20016 | TRG | Non-Filtered BOD 60 - Reading 3 | 4.7 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| SL01 | AF20016 | TRG | Non-Filtered BOD 60 - Reading 4 | 5.3 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| SL01 | AF20016 | TRG | Non-Filtered BOD 60 - Reading 5 | 6.8 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| SL01 | AF20016 | TRG | Non-Filtered BOD 60 - Reading 6 | 8.3 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| SL01 | AF20016 | TRG | Non-Filtered BOD 60 - Reading 7 | 10.1 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| SL01 | AF20016 | TRG | Non-Filtered BOD 60 - Reading 8 | 11.6 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| SL01 | AF20016 | TRG | Non-Filtered BOD 60 - Reading 9 | 13.2 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |
| SL01 | AF20016 | TRG | Non-Filtered BOD 60 - Reading 10 | 14.3 | ppm | 5210B | 9/11/2003 | 10/31/2003 | |
| SL01 | AF20016 | TRG | Non-Filtered BOD 60 - Final | 15.4 | ppm | 5210B | 9/11/2003 | 11/10/2003 | |
| SL02 | AF20017 | TRG | TSS | 47.0 | ppm | 160.2 | 9/12/2003 | 9/15/2003 | |
| SL02 | AF20017 | TRG | TDS | 990 | ppm | 160.1 | 9/17/2003 | 9/17/2003 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SL02 | AF20017 | TRG | Alkalinity | 122 | ppm | 310.1 | 9/12/2003 | 9/12/2003 | |
| SL02 | AF20017 | TRG | Turbidity | 25 | NTU | SM 2130B | 9/11/2003 | 9/11/2003 | |
| SL02 | AF20017 | TRG | Specific Conductance | 1787 | umhos/cm | 120.1 | 9/12/2003 | 9/12/2003 | |
| SL02 | AF20017 | TRG | True Color | 110 | PCU | 110.2 | 9/11/2003 | 9/11/2003 | |
| SL02 | AF20017 | TRG | Chloride, Ion Chromatograph | 504 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| SL02 | AF20017 | TRG | Sulfate | 13.3 | ppm | 300.0 | 10/1/2003 | 10/1/2003 | |
| SL02 | AF20018 | TRG | Sodium | 291 | ppm | 200.7 | 9/29/2003 | 9/29/2003 | |
| SL02 | AF20019 | TRG | Hardness | 240 | ppm | 130.2 | 10/1/2003 | 10/1/2003 | |
| SL02 | AF20019 | TRG | Nitrate+Nitrite Nitrogen | 0.05 | ppm | 353.2 | 9/11/2003 | 9/11/2003 | |
| SL02 | AF20019 | TRG | TP | 0.59 | ppm | 365.4 | 9/22/2003 | 9/22/2003 | |
| SL02 | AF20019 | TRG | TKN | 2.06 | ppm | 351.2 | 9/22/2003 | 9/22/2003 | |
| SL02 | AF20019 | TRG | Ammonia-Nitrogen | ND | ppm | 350.3 | 9/17/2003 | 9/17/2003 | |
| SL02 | AF20020 | TRG | TOC | 19.5 | ppm | 415.1 | 9/18/2003 | 9/19/2003 | |
| SL02 | AF20021 | TRG | pH, Ultimate BOD survey | 7.99 | pH units | 150.1 | 11/10/2003 | 11/10/2003 | |
| SL02 | AF20021 | TRG | TOC (60 Day BOD) | 17.7 | ppm | 415.1 | 11/17/2003 | 11/18/2003 | |
| SL02 | AF20021 | TRG | TKN (60 Day BOD) | 1.00 | ppm | 351.2 | 11/20/2003 | 11/20/2003 | |
| SL02 | AF20021 | TRG | NO2NO3 - Initial Reading | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/11/2003 |
| SL02 | AF20021 | TRG | NO2NO3 - Reading 1 | ND | ppm | 353.2 | 10/2/2003 | 10/2/2003 | 9/12/2003 |
| SL02 | AF20021 | TRG | NO2NO3 - Reading 2 | ND | ppm | 353.2 | 10/3/2003 | 10/3/2003 | 9/15/2003 |
| SL02 | AF20021 | TRG | NO2NO3 - Reading 3 | ND | ppm | 353.2 | 10/9/2003 | 10/9/2003 | 9/17/2003 |
| SL02 | AF20021 | TRG | NO2NO3 - Reading 4 | ND | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/19/2003 |
| SL02 | AF20021 | TRG | NO2NO3 - Reading 5 | 0.05 | ppm | 353.2 | 10/14/2003 | 10/14/2003 | 9/22/2003 |
| SL02 | AF20021 | TRG | NO2NO3 - Reading 6 | 0.13 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 9/26/2003 |
| SL02 | AF20021 | TRG | NO2NO3 - Reading 7 | 0.33 | ppm | 353.2 | 10/23/2003 | 10/23/2003 | 10/1/2003 |
| SL02 | AF20021 | TRG | NO2NO3 - Reading 8 | 0.37 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/10/2003 |
| SL02 | AF20021 | TRG | NO2NO3 - Reading 9 | 0.40 | ppm | 353.2 | 11/4/2003 | 11/4/2003 | 10/21/2003 |
| SL02 | AF20021 | TRG | NO2NO3 - Reading 10 | 0.44 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 10/31/2003 |
| SL02 | AF20021 | TRG | NO2NO3 - Final | 0.46 | ppm | 353.2 | 11/17/2003 | 11/17/2003 | 11/10/2003 |
| SL02 | AF20021 | TRG | Non-Filtered BOD 60 - Reading 1 | 0.9 | ppm | 5210B | 9/11/2003 | 9/12/2003 | |
| SL02 | AF20021 | TRG | Non-Filtered BOD 60 - Reading 2 | 3.1 | ppm | 5210B | 9/11/2003 | 9/15/2003 | |
| SL02 | AF20021 | TRG | Non-Filtered BOD 60 - Reading 3 | 4.0 | ppm | 5210B | 9/11/2003 | 9/17/2003 | |
| SL02 | AF20021 | TRG | Non-Filtered BOD 60 - Reading 4 | 4.7 | ppm | 5210B | 9/11/2003 | 9/19/2003 | |
| SL02 | AF20021 | TRG | Non-Filtered BOD 60 - Reading 5 | 6.1 | ppm | 5210B | 9/11/2003 | 9/22/2003 | |
| SL02 | AF20021 | TRG | Non-Filtered BOD 60 - Reading 6 | 7.3 | ppm | 5210B | 9/11/2003 | 9/26/2003 | |
| SL02 | AF20021 | TRG | Non-Filtered BOD 60 - Reading 7 | 9.0 | ppm | 5210B | 9/11/2003 | 10/1/2003 | |
| SL02 | AF20021 | TRG | Non-Filtered BOD 60 - Reading 8 | 10.5 | ppm | 5210B | 9/11/2003 | 10/10/2003 | |
| SL02 | AF20021 | TRG | Non-Filtered BOD 60 - Reading 9 | 12.1 | ppm | 5210B | 9/11/2003 | 10/21/2003 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SL02 | AF20021 | TRG | Non-Filtered BOD 60 - Reading 10 | 13.6 | ppm | 5210B | 9/11/2003 | 10/31/2003 |
| SL02 | AF20021 | TRG | Non-Filtered BOD 60 - Final | 14.7 | ppm | 5210B | 9/11/2003 | 11/10/2003 |

# Appendix F2 – Cross Sections and Discharge Measurements

## Bayou Chauvin 120507

### Field Data Summary

| Site # | Width (ft) | Width (m) | Depth (ft) | Depth (m) | Flow (cfs) | Flow (cms) |
|---|---|---|---|---|---|---|
| BC01 | 60.00 | 18.29 | 3.57 | 1.09 | 122.27 | 3.46 |
| BC03 | 83.70 | 25.51 | 3.82 | 1.16 | 182.55 | 5.17 |
| BC05 | 83.00 | 25.30 | 3.39 | 1.03 | 160.70 | 4.55 |
| BC06 | 110.00 | 33.53 | 3.4 | 1.04 | 213.91 | 6.05 |
| BC07 | 195.00 | 59.44 | 6.03 | 1.84 | 671.91 | 19.02 |
| BC09 | 186.11 | 56.73 | 7.69 | 2.34 | 817.26 | 23.14 |

## Bayou Chauvin 120507

### Calibration Flow Input Values

| SITE | Source | Q (CMS) | Waterbody |
|---|---|---|---|
| Headwater | BC01 Estimated Flow | 3.4604 | Bayou Chauvin |
| Incremental Reach 1 | BC03 Estimated Flow - BC01 Estimated Flow | 1.7059 | Bayou Chauvin |
| Incremental Reach 2 | 1/2 (BC06 Estimated Flow - BC03 Estimated Flow) | 0.4437 | Bayou Chauvin |
| Incremental Reach 3 | 1/2 (BC06 Estimated Flow - BC03 Estimated Flow) | 0.4437 | Bayou Chauvin |
| Incremental Reach 4 | BC07 Estimated Flow - BC06 Estimated Flow | 12.9614 | Bayou Chauvin |
| Incremental Reach 5 | BC09 Estimated Flow - BC07 Estimated Flow | 4.1272 | Bayou Chauvin |

### Bayou Chauvin 120507 Estimated Calibration Flows

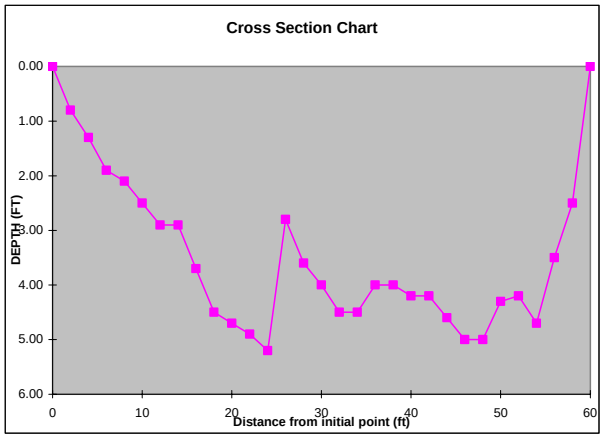
| Site | Area ($ft^2$) | % Final Area | Estimated Flow (cms) |
|---|---|---|---|
| BC01 | 214 | 0.1495 | 3.4604 |
| BC03 | 319.5 | 0.2232 | 5.1663 |
| BC05 | 281.3 | 0.1965 | 4.5478 |
| BC06 | 374.4 | 0.2616 | 6.0537 |
| BC07 | 1176 | 0.8217 | 19.0151 |
| BC09 | 1431 | 1.0000 | 23.1423 |

***STREAM CROSS-SECTION SPREADSHEET***

**Site Number:** BCO1 **Subsegment:** 120507 **Waterbody:** Bayou Chauvin
**Site Description:** Bayou Chauvin Downstream of Woodlawn Road Bridge
**Type of Equipment:** ☐ Fathometer ☐ Hydrotrac ☐ Manual
**Initial Bank:** ☐ RDB ☐ LDB
**Tapedown:**
**Guage Height:**
**Date:** 9/9/2003

| | |
|---|---|
| **WIDTH[1] (ft):** | **60.00** |
| **AREA[2] ($ft^2$):** | **214.00** |
| **AVG. DEPTH[3] (ft):** | **3.57** |

| Subsection | Distance from initial point (ft) | Width[4] (ft) | Depth (ft) | Area[5] (sq.ft.) | Area of element as % of Total Area[6 & 7] |
|---|---|---|---|---|---|
| 1 | 0.0 | 1.00 | 0.00 | 0.00 | |
| 2 | 2.0 | 2.00 | 0.80 | 1.60 | 0.75% |
| 3 | 4.0 | 2.00 | 1.30 | 2.60 | 1.21% |
| 4 | 6.0 | 2.00 | 1.90 | 3.80 | 1.78% |
| 5 | 8.0 | 2.00 | 2.10 | 4.20 | 1.96% |
| 6 | 10.0 | 2.00 | 2.50 | 5.00 | 2.34% |
| 7 | 12.0 | 2.00 | 2.90 | 5.80 | 2.71% |
| 8 | 14.0 | 2.00 | 2.90 | 5.80 | 2.71% |
| 9 | 16.0 | 2.00 | 3.70 | 7.40 | 3.46% |
| 10 | 18.0 | 2.00 | 4.50 | 9.00 | 4.21% |
| 11 | 20.0 | 2.00 | 4.70 | 9.40 | 4.39% |
| 12 | 22.0 | 2.00 | 4.90 | 9.80 | 4.58% |
| 13 | 24.0 | 2.00 | 5.20 | 10.40 | 4.86% |
| 14 | 26.0 | 2.00 | 2.80 | 5.60 | 2.62% |
| 15 | 28.0 | 2.00 | 3.60 | 7.20 | 3.36% |
| 16 | 30.0 | 2.00 | 4.00 | 8.00 | 3.74% |
| 17 | 32.0 | 2.00 | 4.50 | 9.00 | 4.21% |
| 18 | 34.0 | 2.00 | 4.50 | 9.00 | 4.21% |
| 19 | 36.0 | 2.00 | 4.00 | 8.00 | 3.74% |
| 20 | 38.0 | 2.00 | 4.00 | 8.00 | 3.74% |
| 21 | 40.0 | 2.00 | 4.20 | 8.40 | 3.93% |
| 22 | 42.0 | 2.00 | 4.20 | 8.40 | 3.93% |
| 23 | 44.0 | 2.00 | 4.60 | 9.20 | 4.30% |
| 24 | 46.0 | 2.00 | 5.00 | 10.00 | 4.67% |
| 25 | 48.0 | 2.00 | 5.00 | 10.00 | 4.67% |
| 26 | 50.0 | 2.00 | 4.30 | 8.60 | 4.02% |
| 27 | 52.0 | 2.00 | 4.20 | 8.40 | 3.93% |
| 28 | 54.0 | 2.00 | 4.70 | 9.40 | 4.39% |
| 29 | 56.0 | 2.00 | 3.50 | 7.00 | 3.27% |
| 30 | 58.0 | 2.00 | 2.50 | 5.00 | 2.34% |
| 31 | 60.0 | 1.00 | 0.00 | 0.00 | 0.00% |
| 32 | | | | | |
| 33 | | | | | |
| 34 | | | | | |
| 35 | | | | | |
| 36 | | | | | |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |
| 40 | | | | | |
| | Total | 60.00 | | 214.00 | 100.00% |




| Data Collection Crew | | Office Data Work | |
|---|---|---|---|
| **Measurement made by:** | | **Data Inputed by / Date:** | Golz 8/11/05 |
| **Notetaker/Recorder:** | | **Data Input Checked by / Date:** | |
| **Other:** | | | |

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

Bayou Chauvin Watershed TMDL

# Subsegment 120507

Originated: September 29, 2006

Revised: May 11, 2007

## *STREAM CROSS-SECTION SPREADSHEET*

**Site Number:** BC 03 **Subsegment:** 120507 **Waterbody:** Bayou Chauvin

**Site Description:** 0.1 mile below St. Louis Canal

**Type of Equipment:** ☑ Fathometer ☐ Hydrotrac ☐ Manual

**Initial Bank:** ☑ RDB ☐ LDB

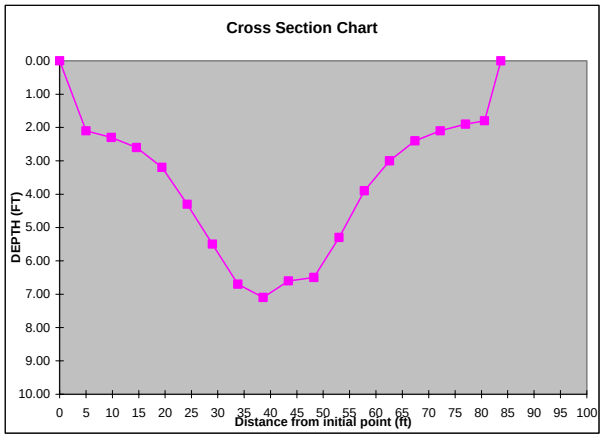
**Tapedown:** N/A

**Guage Height:** N/A

**Date:** 9/9/2003

| | |
|---|---|
| WIDTH[1] (ft): | 83.70 |
| AREA[2] ($ft^2$): | 319.50 |
| AVG. DEPTH[3](ft): | 3.82 |

| Subsection | Distance from initial point (ft) | Width[4] (ft) | Depth (ft) | Area[5] (sq.ft.) | Area of element as % of Total Area[6 & 7] |
|---|---|---|---|---|---|
| 1 | 0.0 | 2.50 | 0.00 | 0.00 | |
| 2 | 5.0 | 4.90 | 2.10 | 10.29 | 3.22% |
| 3 | 9.8 | 4.80 | 2.30 | 11.04 | 3.46% |
| 4 | 14.6 | 4.80 | 2.60 | 12.48 | 3.91% |
| 5 | 19.4 | 4.80 | 3.20 | 15.36 | 4.81% |
| 6 | 24.2 | 4.80 | 4.30 | 20.64 | 6.46% |
| 7 | 29.0 | 4.80 | 5.50 | 26.40 | 8.26% |
| 8 | 33.8 | 4.80 | 6.70 | 32.16 | 10.07% |
| 9 | 38.6 | 4.80 | 7.10 | 34.08 | 10.67% |
| 10 | 43.4 | 4.80 | 6.60 | 31.68 | 9.92% |
| 11 | 48.2 | 4.80 | 6.50 | 31.20 | 9.77% |
| 12 | 53.0 | 4.80 | 5.30 | 25.44 | 7.96% |
| 13 | 57.8 | 4.80 | 3.90 | 18.72 | 5.86% |
| 14 | 62.6 | 4.80 | 3.00 | 14.40 | 4.51% |
| 15 | 67.4 | 4.80 | 2.40 | 11.52 | 3.61% |
| 16 | 72.2 | 4.80 | 2.10 | 10.08 | 3.15% |
| 17 | 77.0 | 4.20 | 1.90 | 7.98 | 2.50% |
| 18 | 80.6 | 3.35 | 1.80 | 6.03 | 1.89% |
| 19 | 83.7 | 1.55 | 0.00 | 0.00 | 0.00% |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| 31 | | | | | |
| 32 | | | | | |
| 33 | | | | | |
| 34 | | | | | |
| 35 | | | | | |
| 36 | | | | | |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |
| 40 | | | | | |
| | Total | 83.70 | | 319.50 | 100.00% |




| Data Collection Crew | | Office Data Work | |
|---|---|---|---|
| Measurement made by: | Savant | Data Inputed by / Date: | Schwartz 9/26/03 |
| Notetaker/Recorder: | Schwartzenburg | Data Input Checked by / Date: | Savant 9/26/03 |
| Other: | | | |

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

***STREAM CROSS-SECTION SPREADSHEET***

**Site Number:** BC05 **Subsegment:** 120507 **Waterbody:** Bayou Chauvin
**Site Description:** .1 mile below junction of unnamed canal & BC
**Type of Equipment:** ☑ Fathometer ☐ Hydrotrac ☐ Manual
**Initial Bank:** ☐ RDB ☑ LDB
**Tapedown:**
**Guage Height:**
**Date:** 9/10/2003

| | |
|---|---|
| WIDTH[1] (ft): | 83.00 |
| AREA[2] (ft[2]): | 281.25 |
| AVG. DEPTH[3](ft): | 3.39 |

| Subsection | Distance from initial point (ft) | Width[4] (ft) | Depth (ft) | Area[5] (sq.ft.) | Area of element as % of Total Area[6 & 7] |
|---|---|---|---|---|---|
| 1 | 0.0 | 4.00 | 0.00 | 0.00 | |
| 2 | 8.0 | 6.00 | 2.90 | 17.40 | 6.19% |
| 3 | 12.0 | 4.00 | 2.90 | 11.60 | 4.12% |
| 4 | 16.0 | 4.00 | 3.50 | 14.00 | 4.98% |
| 5 | 20.0 | 4.00 | 4.50 | 18.00 | 6.40% |
| 6 | 24.0 | 4.00 | 5.80 | 23.20 | 8.25% |
| 7 | 28.0 | 4.00 | 7.40 | 29.60 | 10.52% |
| 8 | 32.0 | 4.00 | 7.40 | 29.60 | 10.52% |
| 9 | 36.0 | 4.00 | 6.90 | 27.60 | 9.81% |
| 10 | 40.0 | 4.00 | 6.20 | 24.80 | 8.82% |
| 11 | 44.0 | 4.00 | 5.40 | 21.60 | 7.68% |
| 12 | 48.0 | 4.00 | 4.50 | 18.00 | 6.40% |
| 13 | 52.0 | 4.00 | 3.00 | 12.00 | 4.27% |
| 14 | 56.0 | 4.00 | 2.00 | 8.00 | 2.84% |
| 15 | 60.0 | 4.00 | 1.50 | 6.00 | 2.13% |
| 16 | 64.0 | 6.50 | 1.30 | 8.45 | 3.00% |
| 17 | 73.0 | 9.50 | 1.20 | 11.40 | 4.05% |
| 18 | 83.0 | 5.00 | 0.00 | 0.00 | 0.00% |
| 19 | | | | | |
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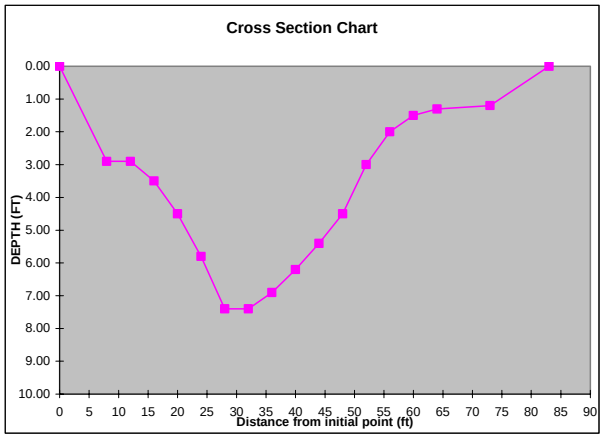
| 39 | | | | | |
| 40 | | | | | |
| | Total | 83.00 | | 281.25 | 100.00% |




| Data Collection Crew | Boffy, Jones | Office Data Work | |
|---|---|---|---|
| Measurement made by: | Boffy, Jones | Data Inputed by / Date: | Boffy 9/26/03 |
| Notetaker/Recorder: | | Data Input Checked by / Date: | Jones 9/26/03 |
| Other: | | | |

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

***STREAM CROSS-SECTION SPREADSHEET***

**Site Number:** BC06 **Subsegment:** 120507 **Waterbody:** Bayou Chauvin

**Site Description:** top of straight dredged section of Bayou Chauvin

**Type of Equipment:** ☑ Fathometer ☐ Hydrotrac ☐ Manual

**Initial Bank:** ☑ RDB ☐ LDB

**Tapedown:**

**Guage Height:**

**Date:** 9/10/2003

| | |
|---|---|
| WIDTH[1] (ft): | 110.00 |
| AREA[2] ($ft^2$): | 374.38 |
| AVG. DEPTH[3](ft): | 3.40 |

| Subsection | Distance from initial point (ft) | Width[4] (ft) | Depth (ft) | Area[5] (sq.ft.) | Area of element as % of Total Area[6 & 7] |
|---|---|---|---|---|---|
| 1 | 0.0 | 6.50 | 0.00 | 0.00 | |
| 2 | 13.0 | 8.84 | 3.60 | 31.82 | 8.50% |
| 3 | 17.7 | 4.68 | 3.60 | 16.85 | 4.50% |
| 4 | 22.4 | 4.68 | 3.90 | 18.25 | 4.88% |
| 5 | 27.0 | 4.68 | 4.30 | 20.12 | 5.38% |
| 6 | 31.7 | 4.68 | 4.50 | 21.06 | 5.63% |
| 7 | 36.4 | 4.68 | 5.10 | 23.87 | 6.38% |
| 8 | 41.1 | 4.68 | 5.20 | 24.34 | 6.50% |
| 9 | 45.8 | 4.68 | 5.10 | 23.87 | 6.38% |
| 10 | 50.4 | 4.68 | 4.80 | 22.46 | 6.00% |
| 11 | 55.1 | 4.68 | 5.10 | 23.87 | 6.38% |
| 12 | 59.8 | 4.68 | 5.30 | 24.80 | 6.63% |
| 13 | 64.5 | 4.68 | 4.70 | 22.00 | 5.88% |
| 14 | 69.2 | 4.68 | 4.10 | 19.19 | 5.13% |
| 15 | 73.8 | 4.68 | 3.80 | 17.78 | 4.75% |
| 16 | 78.5 | 4.68 | 2.80 | 13.10 | 3.50% |
| 17 | 83.2 | 4.68 | 2.70 | 12.64 | 3.38% |
| 18 | 87.9 | 4.68 | 2.50 | 11.70 | 3.13% |
| 19 | 92.6 | 7.06 | 1.80 | 12.71 | 3.39% |
| 20 | 102.0 | 8.72 | 1.60 | 13.95 | 3.73% |
| 21 | 110.0 | 4.00 | 0.00 | 0.00 | 0.00% |
| 22 | | | | | |
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| 36 | | | | | |
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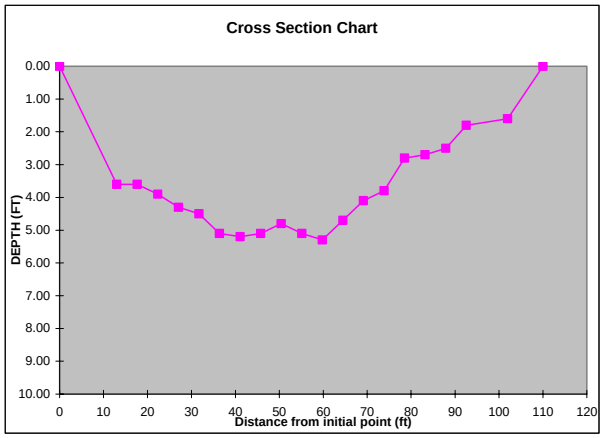
| 39 | | | | | |
| 40 | | | | | |
| | Total | 110.00 | | 374.38 | 100.00% |




| Data Collection Crew | Boffy, Jones | Office Data Work | |
|---|---|---|---|
| Measurement made by: | Boffy, Jones | Data Inputed by / Date: | Boffy 9/26/03 |
| Notetaker/Recorder: | | Data Input Checked by / Date: | Jones 9/26/03 |
| Other: | | | |

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

## *STREAM CROSS-SECTION SPREADSHEET*

**Site Number:** BC07 **Subsegment:** 120507 **Waterbody:** Bayou Chauvin
**Site Description:** .1 mile above junction of UPC and Bayou Chauvin
**Type of Equipment:** ☑ Fathometer ☐ Hydrotrac ☐ Manual
**Initial Bank:** ☐ RDB ☑ LDB
**Tapedown:**
**Guage Height:**
**Date:** 9/10/2003

| | |
|---|---|
| WIDTH[1] (ft): | 195.00 |
| AREA[2] ($ft^2$): | 1175.95 |
| AVG. DEPTH[3](ft): | 6.03 |

| Subsection | Distance from initial point (ft) | Width[4] (ft) | Depth (ft) | Area[5] (sq.ft.) | Area of element as % of Total Area[6 & 7] |
|---|---|---|---|---|---|
| 1 | 0.0 | 3.00 | 0.00 | 0.00 | |
| 2 | 6.0 | 7.55 | 1.30 | 9.82 | 0.83% |
| 3 | 15.1 | 9.10 | 2.20 | 20.02 | 1.70% |
| 4 | 24.2 | 9.10 | 2.80 | 25.48 | 2.17% |
| 5 | 33.3 | 9.10 | 2.80 | 25.48 | 2.17% |
| 6 | 42.4 | 9.10 | 3.20 | 29.12 | 2.48% |
| 7 | 51.5 | 9.10 | 3.80 | 34.58 | 2.94% |
| 8 | 60.6 | 9.10 | 5.30 | 48.23 | 4.10% |
| 9 | 69.7 | 9.10 | 6.90 | 62.79 | 5.34% |
| 10 | 78.8 | 9.10 | 8.60 | 78.26 | 6.66% |
| 11 | 87.9 | 9.10 | 10.00 | 91.00 | 7.74% |
| 12 | 97.0 | 9.10 | 11.00 | 100.10 | 8.51% |
| 13 | 106.1 | 9.10 | 12.00 | 109.20 | 9.29% |
| 14 | 115.2 | 9.10 | 12.00 | 109.20 | 9.29% |
| 15 | 124.3 | 9.10 | 11.30 | 102.83 | 8.74% |
| 16 | 133.4 | 9.10 | 10.10 | 91.91 | 7.82% |
| 17 | 142.5 | 9.10 | 8.20 | 74.62 | 6.35% |
| 18 | 151.6 | 9.10 | 6.30 | 57.33 | 4.88% |
| 19 | 160.7 | 9.10 | 4.10 | 37.31 | 3.17% |
| 20 | 169.8 | 13.65 | 3.00 | 40.95 | 3.48% |
| 21 | 188.0 | 12.60 | 2.20 | 27.72 | 2.36% |
| 22 | 195.0 | 3.50 | 0.00 | 0.00 | 0.00% |
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| 36 | | | | | |
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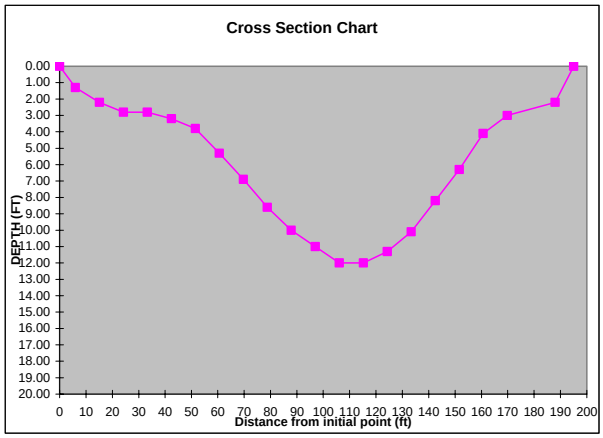
| 39 | | | | | |
| 40 | | | | | |
| | Total | 195.00 | | 1175.95 | 100.00% |




| Data Collection Crew | Boffy, Jones | Office Data Work | |
|---|---|---|---|
| Measurement made by: | Boffy, Jones | Data Inputed by / Date: | Boffy 9/26/03 |
| Notetaker/Recorder: | | Data Input Checked by / Date: | Jones 9/26/03 |
| Other: | | | |

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

***STREAM CROSS-SECTION SPREADSHEET***

**Site Number:** SL 01 **Subsegment:** 120507 **Waterbody:** St. Louis Canal
**Site Description:** 0.5 mile west of Bayou Chauvin
**Type of Equipment:** ☑ Fathometer ☐ Hydrotrac ☐ Manual
**Initial Bank:** ☑ RDB ☐ LDB
**Tapedown:** N/A
**Guage Height:** N/A
**Date:** 9/9/2003

| | |
|---|---|
| WIDTH[1] (ft): | 72.70 |
| AREA[2] ($ft^2$): | 157.36 |
| AVG. DEPTH[3](ft): | 2.16 |

| Subsection | Distance from initial point (ft) | Width[4] (ft) | Depth (ft) | Area[5] (sq.ft.) | Area of element as % of Total Area[6 & 7] |
|---|---|---|---|---|---|
| 1 | 0.0 | 5.00 | 0.00 | 0.00 | |
| 2 | 10.0 | 7.36 | 2.30 | 16.92 | 10.75% |
| 3 | 14.7 | 4.71 | 2.30 | 10.83 | 6.88% |
| 4 | 19.4 | 4.71 | 2.30 | 10.83 | 6.88% |
| 5 | 24.1 | 4.71 | 2.40 | 11.30 | 7.18% |
| 6 | 28.8 | 4.71 | 2.60 | 12.25 | 7.78% |
| 7 | 33.6 | 4.71 | 2.90 | 13.66 | 8.68% |
| 8 | 38.3 | 4.71 | 2.90 | 13.66 | 8.68% |
| 9 | 43.0 | 4.71 | 3.00 | 14.13 | 8.98% |
| 10 | 47.7 | 4.71 | 2.70 | 12.72 | 8.08% |
| 11 | 52.4 | 4.71 | 2.40 | 11.30 | 7.18% |
| 12 | 57.1 | 4.71 | 2.10 | 9.89 | 6.29% |
| 13 | 61.8 | 5.30 | 1.90 | 10.07 | 6.40% |
| 14 | 67.7 | 5.45 | 1.80 | 9.80 | 6.23% |
| 15 | 72.7 | 2.50 | 0.00 | 0.00 | 0.00% |
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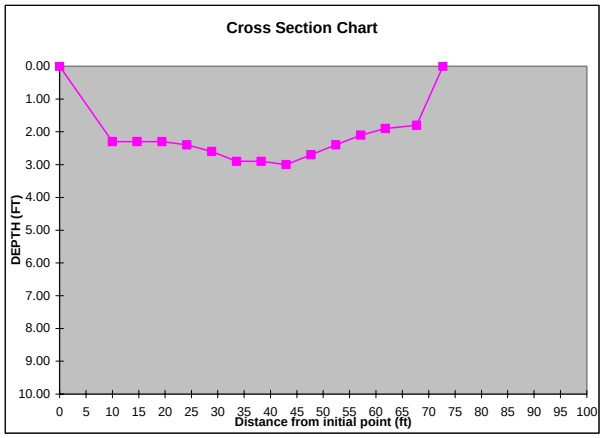
| 40 | | | | | |
| | Total | 72.70 | | 157.36 | 100.00% |




| Data Collection Crew | | Office Data Work | |
|---|---|---|---|
| Measurement made by: | Savant | Data Inputed by / Date: | Schwartz 9/26/03 |
| Notetaker/Recorder: | Schwartzenburg | Data Input Checked by / Date: | Savant 9/26/03 |
| Other: | | | |

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

Bayou Chauvin Watershed TMDL

# Subsegment 120507

Originated: September 29, 2006

Revised: May 11, 2007

***STREAM CROSS-SECTION SPREADSHEET***

**Site Number:** SL 02 **Subsegment:** 120507 **Waterbody:** St. Louis Canal

**Site Description:** East of junction w/ north-south canal

**Type of Equipment:** ☑ Fathometer ☐ Hydrotrac ☐ Manual

**Initial Bank:** ☑ RDB ☐ LDB

**Tapedown:** N/A

**Guage Height:** N/A

**Date:** 9/9/2003

| | |
|---|---|
| WIDTH[1] (ft): | 95.60 |
| AREA[2] (ft[2]): | 184.43 |
| AVG. DEPTH[3](ft): | 1.93 |

| Subsection | Distance from initial point (ft) | Width[4] (ft) | Depth (ft) | Area[5] (sq.ft.) | Area of element as % of Total Area[6 & 7] |
|---|---|---|---|---|---|
| 1 | 0.0 | 5.00 | 0.00 | 0.00 | |
| 2 | 10.0 | 7.68 | 1.70 | 13.05 | 7.07% |
| 3 | 15.4 | 5.35 | 1.80 | 9.63 | 5.22% |
| 4 | 20.7 | 5.35 | 2.00 | 10.70 | 5.80% |
| 5 | 26.1 | 5.35 | 2.30 | 12.31 | 6.67% |
| 6 | 31.4 | 5.35 | 2.70 | 14.45 | 7.83% |
| 7 | 36.8 | 5.35 | 2.30 | 12.31 | 6.67% |
| 8 | 42.1 | 5.35 | 2.50 | 13.38 | 7.25% |
| 9 | 47.5 | 5.35 | 2.60 | 13.91 | 7.54% |
| 10 | 52.8 | 5.35 | 2.80 | 14.98 | 8.12% |
| 11 | 58.2 | 5.35 | 2.60 | 13.91 | 7.54% |
| 12 | 63.5 | 5.35 | 2.40 | 12.84 | 6.96% |
| 13 | 68.9 | 5.35 | 2.00 | 10.70 | 5.80% |
| 14 | 74.2 | 5.35 | 1.90 | 10.17 | 5.51% |
| 15 | 79.6 | 4.71 | 1.80 | 8.48 | 4.60% |
| 16 | 83.6 | 8.03 | 1.70 | 13.64 | 7.40% |
| 17 | 95.6 | 5.99 | 0.00 | 0.00 | 0.00% |
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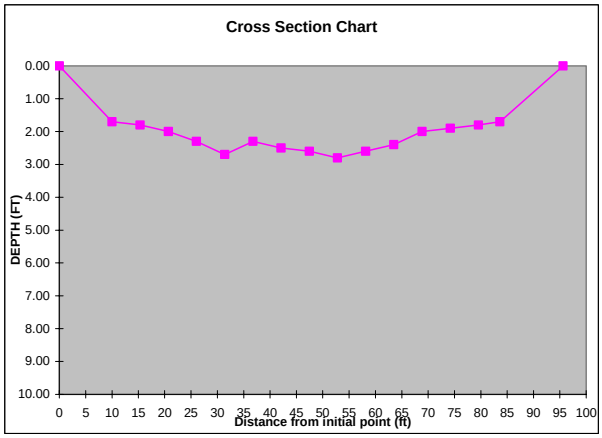
| 36 | | | | | |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |
| 40 | | | | | |
| | Total | 95.60 | | 184.43 | 100.00% |




| Data Collection Crew | | Office Data Work | |
|---|---|---|---|
| Measurement made by: | Savant | Data Inputed by / Date: | Schwartz 9/26/03 |
| Notetaker/Recorder: | Schwartzenburg | Data Input Checked by / Date: | Savant 9/26/03 |
| Other: | | | |

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

# Appendix F3 – Field Notes

# Bayou Chauvin Survey Report

Bayou Chauvin (Subsegment 120507) is located in the Terrebonne Basin and is approximately 8.5 miles long. The survey started at the Woodlawn Ranch Rd. off of Hwy. 57 below Houma, and continued to Lake Boudreaux. It was conducted on Tuesday, September 9, 2003 through Tuesday, September 16, 2003. The majority of the land use along the bayou is wetlands. There are also sugarcane fields adjacent to the bayou at the top of the subsegment as well as the Ashland Landfill located west of the bayou and north of the St. Louis Canal. In addition, there is a Terrebonne Parish oxidation pond located east of the bayou and south of the St. Louis Canal.

The Watershed Survey Group took water quality samples throughout the length of the bayou along with In-Situ readings on September 10. In addition, a second set of samples was taken Tuesday, September 16, at main stem sites (BC02, BC05, BC07, BC09). There was some measurable flow taken with the Acoustic Doppler just above the junction with Lake Boudreaux. A dye study was conducted at the top of the subsegment from just below BC02 to the intersection of St. Louis Canal.** There were a total of nine continuous monitors used on the survey.*** Of the nine, four were vented depth and five were not. GPS readings were taken prior to the survey and cross sections were taken during the survey. All field observations, lab, and monitor data are included in this report.

**The dye was dumped ¼ mile upstream from the designated point on the map because a couple of pumps were running that morning. However, the pumps shut down within an hour after the dye was dumped.
***The survey plan called for a continuous monitor and water quality samples at BC05. Water quality samples and In-Situ readings were taken as required, however the continuous monitor was placed at BC06 instead (1 ¼ miles downstream of BC05).

*Site Information*

Site #: BC-01 Subsegment: 120507 Date: 9/9/05 Time: 1430 hr
Waterbody: Bayou Chauvin Tapedown 1: 11.15 Staff Gauge 1: ____
Gauge Height 1: ____ Tapedown 2: ____ Staff Gauge 2: ____ Gauge Height 2: ____
Site Location: Just Downstream of Woodlawn Rd Bridge
Personnel: Dickinson, Lafleur
Type of Work: Recon ☐ Data Collection ☒

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☐ | Hot > 85° ☒ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☒ | Warm > 75° ☐ | 1-5 ☒ | SW ☐ S ☒ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 - 100% ☒ | | | |

Stream Characteristics: Flowing ☐ Measurable Flow ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒
Floating/Aquatic Vegetation % Surface Coverage: 0 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N: ____
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____
Continuous Monitor Location: ____

Water Quality Field Parameters

Time: ____ Temp. (°C): ____ pH: ____ Spcond (µhmos/cm): ____
D.O.: ____ D.O. %: ____ Salinity: ____ Depth (m): ____ Secchi (in): ____

Flow Measurement: ☐ Measurement Location: ____
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name: ____
Flow Estimated: ☐ Measurement Location: ____
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft): ____ Time (s): ____
Mid Stream: Distance (ft): ____ Time (s): ____
Left Descending Bank: Distance (ft): ____ Time (s): ____
Cross Section Measurement: ☒ Measurement Location: Downstream of Woodlawn Rd bridge
Type of Measurement: Manual ☒ Fathometer ☒ Cross Section File Name: BC-01
GPS Measurement: ☐ GPS SSF File Name: ____
Site GPS: ☐ Cross Section GPS: ☐
Comments: X-Section

BC-01 120507 9/9/03 1430hr

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand Silt ☐ Rock/Gravel/Silt ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☒ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☒ 51-75% ☐ 76-100% ☐

Recon Information
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width _____ Bridge Height _____

Profiling Measurements

| | | | |
|---|---|---|---|
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used

| | | |
|---|---|---|
| In Situ Probe S/N: | Surveyor 4a S/N: | GPS Unit |
| AquaCalc S/N | Fathometer: | Laser Gun |
| Camera S/N | | |

References
Convert Feet to Meters
0.5 ft = 0.15 m
1.0 ft = 0.30 m
1.5 ft = 0.45 m
2.0 ft = 0.60 m
2.5 ft = 0.75 m

Field Site Survey 306
Revision 2.0
Revised 5/25/03

*Site Information*

Site # BC-01 Subsegment: 120507 Date: 9-8-03 Time: 0845hr
Waterbody: Bayou Chauvin Tapedown 1: 7.51 Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: Just downstream of Woodlawn Rd. Bridge
Personnel: Lafleur, Dickson
Type of Work: Recon ☐ Data Collection ☒

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction |
|---|---|---|---|
| Clear ☒ | Hot > 85° ☒ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm > 75° ☐ | 1-5 ☒ | SW ☐ S ☐ SE ☒ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 - 10% ☒ | Cold < 60° ☐ | >16 ☐ | |
| 11 - 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☐ | | | |

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present: ☐ Sedimentation/Turbidity Present in Water Column ☒
Floating Aquatic Vegetation % Surface Coverage: 0 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ Water Quality Field Parameters: ☒ Profiling ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location

Water Quality Field Parameters

IBV - 9.4
IBa - 10.8

Time: 0845hr Temp.(°C): 29.19 pH: 7.19 Spcond(µmos/cm): 865.3
D.O.: 1.64 D.O. %: 20.4 Salinity: 0.45 Depth (m): 1.0m Secchi (in):

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate ☐ Dye Estimate ☐
Right Descending Bank Distance (ft): Time (s):
Mid Stream: Distance (ft): Time (s):
Left Descending Bank Distance (ft): Time (s):
Cross Section Measurement: ☐ Measurement Location:
Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:
GPS Measurement ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐
Comments: Water Quality Samples Taken & In-Situ

BC-01 120507 9/10/03 0845hr

Photos Taken: ☐ Picture File #: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐
Stream Dry/Intermittent ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☒ Forestry ☐ Municipal ☐ Industrial ☐ Field Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements

| | | | |
|---|---|---|---|
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:
In Situ Probe S/N: 40008 Surveyor 4a S/N: 519169 GPS Unit _____
AquaCalc S/N _____ Fathometer: _____ Laser Gun _____
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft = 0.15 m
1.0 ft = 0.30 m
1.5 ft = 0.45 m
2.0 ft = 0.60 m
2.5 ft = 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

*Site Information*

Site # BC 02 Subsegment: 120507 Date 9/9/03 Time 1110 hrs

Waterbody: Bayou Chauvin Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: 0.4 miles below Houma Sewer Water Pumps

Personnel: Schwabe, Savant

Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions: | Temperature (°F) | Wind (mph) | Wind Direction: |
|---|---|---|---|
| Clear ☑ | Hot >85° ☐ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm >75° ☑ | 1-5 ☑ | W ☐ S ☐ SE ☐ |
| Showers ☐ | Mild >65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool >60° ☐ | 11-15 ☐ | Variable ☐ |
| 1 – 10% ☐ | Cold <60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☑ | | | |

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream: ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation, Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☑ Continuous Monitor S/N: 39001

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 1 m

Continuous Monitor Location:

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µmhos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSP File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BC-02 120507 9/9/03 1110hrs

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☑ Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐
Control Structure Present: ☑ Location: 0.4 mi upstream
Type: Man Made Dam ☐ Flow Regulation Device ☑ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☑ Forestry ☐ Municipal ☑ Industrial ☐ Field/Pasture ☐ Wetland ☑
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☑ 51-75% ☐ 76-100% ☐

Recon Information
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible ☐ Nearest Launch:
Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

| | | | |
|---|---|---|---|
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:
In Situ Probe S/N: Surveyor 4a S/N: GPS Unit
AquaCalc S/N Fathometer Laser Gun
Camera S/N:

References
Convert Feet to Meters
0.5 ft 0.15 m
1.0 ft 0.30 m
1.5 ft 0.45 m
2.0 ft 0.60 m
2.5 ft 0.75 m

Field Site Survey.doc
Revision 2.0

*Site Information*

Site #: BC02 Subsegment: 120507 Date: 9/10/03 Time: 1000 hrs

Waterbody: Bayou Chauvin Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: 0.4 mile below Houma Storm water Pump

Team Lead: Schwartz, Stewart

Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☑ | Hot > 85° ☑ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm > 75° ☐ | 1-5 ☑ | SW ☐ S ☑ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 50° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☑ | Cold > 20° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 - 100% ☐ | | | |

Stream Characteristics: Flowing ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ Water Quality Field Parameters: ☑ Profiling: ☐ S/N 40810

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: ____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____

Continuous Monitor Location: ____

Water Quality Field Parameters

Time: 1000hrs Temp.(°C): 26.95 pH: 7.02 Spcond(µhms.cm): 1321

D.O.: 5.03 D.O. %: 58.1 Salinity: 0.20 Depth (m): 1m Secchi (in): 18in

Flow Measurement: ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

Flow Estimated: ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): ____ Time (s): ____

Mid Stream: Distance (ft): ____ Time (s): ____

Left Descending Bank: Distance (ft): ____ Time (s): ____

Cross Section Measurement: ☐ Measurement Location: ____

Type of Measurement: Manual: ☐ Fathometer: ☐ Cross Section File Name: ____

GPS Measurement: ☐ GPS SSF File Name: ____

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BC-02 120507 9/10/03 1000hrs

Photos Taken ☐ Picture File #: ____

Tapedown Established: ☐ Tapedown Location: ____
Benchmark Established: ☐ Benchmark Location: ____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): ____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☑ Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐
Control Structure Present: ☑ Location: 0.4 mi upstream
Type: Man Made Dam ☐ Flow Regulation Device ☑ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☑ Forestry ☐ Municipal ☑ Industrial ☐ Field Pasture ☐ Wetland ☑
Percent Tree Canopy Cover: 0-25% ☐ 25-50% ☑ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: ____
Cross Section Location: ____
Continuous Monitor Deployment: ____
Continuous Monitor Location: ____
Boat Accessible: ☐ Nearest Launch:
Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

| | | | |
|---|---|---|---|
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:

| | | |
|---|---|---|
| In Situ Probe S/N: | Surveyor 4a S/N: | GPS Unit |
| AquaCalc S/N: | Fathometer: | Laser Gun |
| Camera S/N: | | |

References
Convert Feet to Meters
0.5 ft 0.15 m
1.0 ft 0.30 m
1.5 ft 0.45 m
2.0 ft 0.61 m
2.5 ft 0.76 m

Field Site Survey.doc
Revision 2.0
Page 1 of 1

*Site Information*

Site #: BC 02 Subsegment: 120502 Date: 9/4/03 Time: 1145

Waterbody: Bayou Chauvin

Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location:

Personnel: Jones, Bofry, Hughes

Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☐ | Hot >85° ☐ | <1 ☐ | NW ☐ N ☐ NE ☑ |
| Drizzle/Light Rain ☑ | Warm > 75° ☑ | 1-5 ☑ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☑ | | | |

Stream Characteristics: Flowing ☑ Measurable Flow ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced ☑

Wind Influence ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Sample Taken ☐ Water Quality Field Parameters ☐ Profiling ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 3900 /

Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment: Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: Temp. (°C): pH: Spcond (µmhos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement: Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS ☐

Comments:

BC02 120507 9/11/03 1145

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (m): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐
Stream Dry Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt: ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | |
|---|---|---|---|
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:
In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit: _____
AquaCalc S/N: _____ Fathometer: _____ Laser Gun: _____
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft ≅ 0.15 m
1.0 ft ≅ 0.30 m
1.5 ft ≅ 0.45 m
2.0 ft ≅ 0.60 m
2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

*Site Information*

Site #: BC02 Subsegment: 120507 Date: 9/16/03 Time: 1000

Waterbody: Bayou Chauvin Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: 0.4 miles below Houma stormwater pumps

Personnel: Lafleur, Jones, Beffy

Type of Work: Recon ☐ Data Collection ☒

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☒ | Hot >85° ☐ | <1 ☐ | NW ☐ N ☒ NE ☐ |
| Drizzle / Light Rain ☐ | Warm > 75° ☐ | 1-5 ☐ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☒ | 6-10 ☒ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☒ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☐ | | | |

Stream Characteristics: Flowing ☐ Measurable Flow ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☒

Wind Influence: ☒ Wind Influence Direction: Upstream ☐ Downstream ☒

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ Water Quality Field Parameters: ☒ Profiling: ☐

Continuous Monitor Deployed ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: 1000 Temp.(°C): 21.00 pH: 7.21 Spcond(µmhos/cm): 666.5

D.O.: 1.44 D.O. %: 17.5 Salinity: 0.34 Depth (m): 1m Secchi (in): 1.25'

Flow Measurement: ☐ Measurement Location

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement: Manual ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BC02 120507 9/16/03 1000

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☒ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel Silt ☐

Control Structure Present: ☒ Location: 0.4 mi upstream

Type: Man Made Dam ☐ Flow Regulation Device ☒ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☒ Forestry ☐ Municipal ☒ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover: 0-25% ☐ 26-50% ☒ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | |
|---|---|---|---|
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:

In Situ Probe S/N: 37761 Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Sheet Revision
Revision 2.0
Revised 3/7/03

*Site Information*

Site #: BC03 Subsegment: 120507 Date: 9 29 03 Time: 1150 hrs

Waterbody: Bayou Chauvin Tapedown 1: — Staff Gauge 1: —

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: about 0.1 Mile Below St. Louis Canal

Personnel: Sprant, Schuetz

Type of Work: Recon: ☐ Data Collection: ☑

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☐ | Hot >85° ☐ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm > 75° ☑ | 1-5 ☑ | SW ☐ S ☑ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover | Cool > 63° ☐ | 11-15 ☐ | Variable ☐ |
| 0-10% ☐ | Cold < 63° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☑ | | | |

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Totally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☑ Continuous Monitor S/N: 40896

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 1m

Continuous Monitor Location:

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µmhos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☑ Measurement Location: 0.1 mile Below St. Louis Canal

Type of Measurement: Manual ☐ Fathometer ☑ Cross Section File Name: BC03

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BC03 120507 9/9/03 1150hrs

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☒ Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐
Control Structure Present: ☐ Location: _____
Type: Man-Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☒ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch:
Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

| | | | |
|---|---|---|---|
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used.

| | | |
|---|---|---|
| In Situ Probe S/N: | Surveyor 4a S/N: | GPS Unit |
| AquaCalc S/N | Fathometer: | Laser Gun |
| Camera S/N: | | |

References
Convert Feet to Meters
0.5 ft 0.15 m
1.0 ft 0.30 m
1.5 ft 0.45 m
2.0 ft 0.60 m
2.5 ft 0.75 m

*Site Information*

Site # BC 03 Subsegment: 120507 Date: 9/10/03 Time: 1040 hrs

Waterbody: Bayou Chauvin Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: 0.1 mile below St. Louis Canal

Personnel: Schwartz, Sweat

Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☑ | Hot > 85° ☑ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle Light Rain ☐ | Warm > 75° ☐ | 1-5 ☑ | SW ☐ S ☑ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 - 10% ☑ | Cold < 60° ☐ | >16 ☐ | |
| 11 - 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☐ | | | |

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ Water Quality Field Parameters: ☑ Profiling: ☐ S/N 40810

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: 1040 hrs Temp.(°C): 27.04 pH: 7.0 Spcond(µmhos/cm): 1679

D.O.: 1.18 D.O. %: 15.0 Salinity: 0.84 Depth (m): 1.2 Secchi (in): 18in

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement: Manual ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS ☐

Comments:

BC03 120507 9/10/03 1040hrs

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☑ Man-Made Waterbody ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover: 0-25% ☐ 26-50% ☑ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

**Profiling Measurements:**

| | | | |
|---|---|---|---|
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:

| | | |
|---|---|---|
| In Situ Probe S/N: | Surveyor 4a S/N: | GPS Unit |
| AquaCalc S/N | Fathometer | Laser Gun |
| Camera S/N: | | |

References

Convert Feet to Meters

0.5 ft 0.15 m
1.0 ft 0.30 m
1.5 ft 0.45 m
2.0 ft 0.60 m
2.5 ft 0.75 m

Field Site Survey doc

*Site Information*

Site #: 8003 Subsegment: 120507 Date: 9/11/03 Time: 1235

Waterbody: Bayou Chauvin Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location:

Personnel: Vorer, Bobby, Hughes

Type of Work: Recon ☐ Data Collection ☐

| Weather Conditions | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☐ | Hot > 85° ☐ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☑ | Warm > 75° ☑ | 1-5 ☐ | SW ☐ E ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☑ | S ☐ W ☐ |
| Cloud Cover: | Cool > 50° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 50° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☑ | | | |

Stream Characteristics: Flowing ☑ Measurable Flow: ☐

Flow Direction: Upstream ☐ Downstream ☑ Tidally Influenced: ☑

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: 0 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 40806

Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µmos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement: Manual ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BC03 120507 9/11/03 1235

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐
Stream Dry Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | |
|---|---|---|---|
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:
In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____
AquaCalc S/N _____ Fathometer: _____ Laser Gun _____
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft = 0.15 m
1.0 ft = 0.30 m
1.5 ft = 0.45 m
2.0 ft = 0.60 m
2.5 ft = 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 1/15/03

*Site Information*

Site #: BC02 Subsegment: 120507 Date: 7/10/03 Time: 1205
Waterbody: Bayou Chauvin Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: 4b, 1 m. below inct. of unnamed canal & B. Chauvin
Personnel: Jones, Boffy
Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☑ | Hot > 85° ☐ | <1 ☐ | NW ☐ N ☐ NE ☑ |
| Drizzle/Light Rain ☐ | Warm > 75° ☑ | 1-5 ☑ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 1-10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 - 40% ☑ | | | |
| 41 - 70% ☐ | | | |
| 71 - 100% ☐ | | | |

Stream Characteristics: Flowing ☑ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☑
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken ☑ Water Quality Field Parameters: ☐ Profiling ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

Time: 1205 Temp.(°C): 28.06 pH: 7.08 Spcond(µhmos/cm): 3528
D.O.: 3.47 D.O. %: 45.1 Salinity: 1.85 Depth (m): 1m Secchi (in): 30in

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft): Time (s):
Mid Stream: Distance (ft): Time (s):
Left Descending Bank: Distance (ft): Time (s):
Cross Section Measurement: ☑ Measurement Location:
Type of Measurement: Manual: ☐ Fathometer ☑ Cross Section File Name:
GPS Measurement: ☐ GPS SSF File Name
Site GPS ☐ Cross Section GPS: ☐
Comments:

BC05 120507 9/10/03 1205

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurements: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics Natural Waterbody: ☐ Man Altered Waterbody ☑ Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sand/☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☑
Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge: ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements

Time: 1205 Temp.(°C): 28.06 pH: 7.08 Spcond(µhmos/cm): 3528 IBV 7.5
D.O.: 3.47 D.O. %: 45.1 Salinity: 1.85 Depth (m): 1m IBATT 9.6

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Equipment Used:
In Situ Probe S/N: 40803 Surveyor 4a S/N: _____ GPS Unit _____
AquaCalc S/N _____ Fathometer: _____ Laser Gun _____
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft = 0.15 m
1.0 ft = 0.30 m
1.5 ft = 0.45 m
2.0 ft = 0.60 m
2.5 ft = 0.75 m

Field Site Survey 506
Revision 2.0
Revised 3/25/03

*Site Information*

Site #: BC05 Subsegment: 120507 Date: 9 16 3 Time: 1100 hrs.

Waterbody: Bayou Chauvin Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: 0.1 mi below Junction of unnamed canal & Bayou Chauvin

Personnel: Boffy, Jones, LaFleur

Type of Work: Recon ☐ Data Collection ☒

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☒ | Hot >85° ☐ | <1 ☐ | NW ☐ N ☐ NE ☒ |
| Drizzle/Light Rain ☐ | Warm > 75° ☒ | 1-5 ☐ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☒ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☒ | Cold < 60° ☐ | >16 ☐ | |
| 11 - 40% ☐ | | | |
| 41 - 70% ☐ | | | |
| 71 - 100% ☐ | | | |

**Stream Characteristics** Flowing ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☒

Wind Influence ☒ Wind Influence Direction: Upstream ☐ Downstream ☒

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Water Quality Samples Taken** ☒ **Water Quality Field Parameters:** ☒ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: ____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____

Continuous Monitor Location: ____

Water Quality Field Parameters

Time: 1100 Temp.(°C): 26.78 pH: 7.14 Spcond(µmhos/cm): 1329

D.O.: 2.58 D.O. %: 31.7 Salinity: 0.70 Depth (m): 1m Secchi (in): 1.75'

**Flow Measurement:** ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

**Flow Estimated:** ☐ Measurement Location: ____

Using Discharge Equipment ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): ____ Time (s): ____

Mid Stream: Distance (ft): ____ Time (s): ____

Left Descending Bank: Distance (ft): ____ Time (s): ____

**Cross Section Measurement:** ☐ Measurement Location: ____

Type of Measurement: Manual: ☐ Fathometer ☐ Cross Section File Name: ____

GPS Measurement: ☐ GPS SSF File Name: ____

Site GPS ☐ Cross Section GPS: ☐

Comments:

BC05 120507 9/16/03 1100hrs

Photos Taken ☐ Nature File #: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement ☐ Type of Site: injection ☐ Collection ☐

Amount of Dye Injected (mL): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe ☐ Bridge Width: _____ Bridge Height: _____

**Profiling Measurements:**

| | | | |
|---|---|---|---|
| Time: | Temp.( °C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( °C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( °C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:

In Situ Probe S/N: 37761 Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/28/03

*Site Information*

Site #: BC06 Subsegment: 120507 Date: 9/9/03 Time: 12:45
Waterbody: Bayou Chauvin Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: top of straight dredged section of Bayou Chauvin
Personnel: Jones, Rotty
Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☐ | Hot > 85° ☐ | <1 ☑ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☑ | Warm > 75° ☑ | 1-5 ☐ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover | Cool > 60° ☐ | 11-15 ☐ | Variable ☑ |
| 0-10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11-40% ☐ | | | |
| 41-70% ☐ | | | |
| 71-100% ☑ | | | |

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐
Flow Direction Upstream ☑ Downstream ☐ Tidally Influenced: ☑
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present: ☐ Sedimentation Turbidity Present in Water Column ☐
Floating Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐
Continuous Monitor Deployed: ☑ Continuous Monitor S/N: 40808
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µhmos/cm):
D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft): Time (s):
Mid Stream: Distance (ft): Time (s):
Left Descending Bank: Distance (ft): Time (s):
Cross Section Measurement: ☐ Measurement Location:
Type of Measurement Material: ☐ Parameter ☐ Cross Section File Name:
GPS Measurement: ☐ GPS SSF File Name:
Site GPS ☐ Cross Section GPS: ☐
Comments:

BC04 120507 9/9/03 1245

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics. Natural Waterbody: ☐ Man Altered Waterbody: ☑ Man-Made Waterbody ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☑

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☑ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey doc
Revision 2.0
Revised 5/23/03

*Site Information*

Site #: BC06 Subsegment: 120507 Date: 8/10/03 Time: 1150

Waterbody: Bayou Chauvin Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: Top of Straight dredged sec. of Bayou Chauvin

Personnel: Jones, Boffy

Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☑ | Hot > 85° ☐ | < 1 ☐ | NW ☐ N ☐ NE ☑ |
| Drizzle/Light Rain ☐ | Warm > 75° ☑ | 1-5 ☑ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 1-10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11-40% ☑ | | | |
| 41-70% ☐ | | | |
| 71-100% ☐ | | | |

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction: Upstream ☐ Downstream ☑ Tidally Influenced: ☑

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: 0 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: _____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): _____

Continuous Monitor Location: _____

Water Quality Field Parameters

Time: _____ Temp.( °C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

Flow Measurement: ☐ Measurement Location: _____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: _____

Flow Estimated: ☐ Measurement Location: _____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): _____ Time (s): _____

Mid Stream: Distance (ft): _____ Time (s): _____

Left Descending Bank: Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☑ Measurement Location: _____

Type of Measurement Manual: ☐ Fathometer: ☑ Cross Section File Name: _____

GPS Measurement: ☐ GPS SSF File Name: _____

Site GPS: ☐ Cross Section GPS: ☐

Comments: _____

BC-06 120507 9/16/03 1150

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☑ Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand Silt ☑ Rock/Gravel Silt ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☑
Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Time: | 1150 | Temp.(°C): | 28.32 | pH: | 7.39 | Spcond(µhmos/cm): | 5945 | 18V | 7.5 |
| D.O.: | 3.69 | D.O. %: | 49.0 | Salinity: | 3.28 | Depth (m): | 1m | 18ATT | 9.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used.
In Situ Probe S/N: 40803 Surveyor 4a S/N: _____ GPS Unit _____
AquaCalc S/N _____ Fathometer: _____ Laser Gun _____
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft = 0.15 m
1.0 ft = 0.30 m
1.5 ft = 0.45 m
2.0 ft = 0.60 m
2.5 ft = 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/23/03

*Site Information*

Site #: BC-6 Subsegment: 120507 Date: 9/11/03 Time: 1125

Waterbody: Bayou Chauvin Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location:

Personnel: Jones, Bobby, Hughes

Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☐ | Hot > 85° ☐ | <1 ☐ | NW ☐ N ☐ NE ☑ |
| Drizzle/Light Rain ☐ | Warm > 75° ☑ | 1-5 ☐ | SW ☐ S ☐ SE ☐ |
| Showers ☑ | Mild > 65° ☐ | 6-10 ☑ | E ☐ W ☐ |
| Cloud Cover: | Cool > 50° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☐ | | | |

Stream Characteristics. Flowing: ☑ Measurable Flow ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced ☑

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: < 10% ☑ 10-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 40808

Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µhmos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement: Manual ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SST File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BC06 120507 9/11/03 12.2 S

Photos Taken: ☐ Photo File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection: ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 25-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft = 0.15 m

1.0 ft = 0.30 m

1.5 ft = 0.45 m

2.0 ft = 0.60 m

2.5 ft = 0.75 m

Field Site Survey doc
Revision 2.0
Revised 5-23/03

*Site Information*

Site #: BC07 Subsegment: 120507 Date: 9/9/03 Time: 1240

Waterbody: Bayou Chauvin Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: .1 m above junct. of upper pipeline canal & B. Chauvin

Personnel: Jones, Betty

Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☐ | Hot >85° ☐ | <1 ☑ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☑ | Warm > 75° ☑ | 1-5 ☐ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☑ | | | |

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☑ Downstream ☐ Tidally Influenced: ☑

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☑ Continuous Monitor S/N: 40807

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____

Continuous Monitor Location: ____

Water Quality Field Parameters

Time: ____ Temp.(°C): ____ pH: ____ Spcond(µmhos/cm): ____

D.O.: ____ D.O. %: ____ Salinity: ____ Depth (m): ____ Secchi (in): ____

Flow Measurement: ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

Flow Estimated: ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): ____ Time (s): ____

Mid Stream: Distance (ft): ____ Time (s): ____

Left Descending Bank: Distance (ft): ____ Time (s): ____

Cross Section Measurement: ☐ Measurement Location: ____

Type of Measurement: Manual ☐ Fathometer ☐ Cross Section File Name: ____

GPS Measurement: ☐ GPS SSF File Name: ____

Site GPS ☐ Cross Section GPS ☐

Comments: ____

BC07 120507 9/9/03 1240

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics. Natural Waterbody: ☐ Man Altered Waterbody: ☑ Man-Made Waterbody ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt: ☑ Rock/Gravel/Silt: ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☑

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | |
|---|---|---|---|
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 3.0
Revised 3/7/03

*Site Information*

Site #: BC07 Subsegment: 120507 Date: 9.10.03 Time: 1030
Waterbody: Bayou Chauvin Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: 1 m above jnct. of upper pipeline canal & B. Chauvin
Personnel: Jones, Boffy
Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☑ | Hot > 85° ☐ | < ☐ | NW ☐ N ☐ NE ☑ |
| Drizzle/Light Rain ☐ | Warm > 75° ☑ | 1-5 ☑ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 50° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 50° ☐ | >16 ☐ | |
| 11 – 40% ☑ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☐ | | | |

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☑
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <5 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ Water Quality Field Parameters: ☐ Profiling: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): _____
Continuous Monitor Location: _____

Water Quality Field Parameters

Time: 1035 Temp.(°C): 27.35 pH: 7.4 Spcond(µhmos/cm): 6833
D.O.: 3.34 D.O. %: 43.7 Salinity: 3.8 Depth (m): 1m Secchi (in): 18in

Flow Measurement: ☐ Measurement Location: _____
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name: _____
Flow Estimated: ☐ Measurement Location: _____
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft): _____ Time (s): _____
Mid Stream: Distance (ft): _____ Time (s): _____
Left Descending Bank: Distance (ft): _____ Time (s): _____
Cross Section Measurement: ☑ Measurement Location: _____
Type of Measurement: Manual: ☐ Fathometer ☑ Cross Section File Name: _____
GPS Measurement: ☐ GPS SSF File Name: _____
Site GPS: ☐ Cross Section GPS: ☐
Comments: _____

BC67 120507 9/10/03 1030

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand Silt ☐ Rock/Gravel Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time: 1035 Temp.(°C): 27.35 pH: 7.4 Spcond(µhmos/cm): 6833 IBV - 7.5
D.O.: 3.34 D.O. %: 43.7 Salinity: 3.8 Depth (m): 1m IBATT - 9.6

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Equipment Used:

In Situ Probe S/N: 40803 Surveyor 4a S/N: _____ GPS Unit _____
AquaCalc S/N _____ Fathometer _____ Laser Gun _____
Camera S/N: _____

References

Convert Feet to Meters

0.5 ft = 0.15 m
1.0 ft = 0.30 m
1.5 ft = 0.45 m
2.0 ft = 0.60 m
2.5 ft = 0.75 m

Field Sheet Survey doc
Revision 2.0
Revised 3/21/03

*Site Information*

Site #: BC07 Subsegment: 120507 Date: 7/11/03 Time: 1245
Waterbody: Bayou Chauvin Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: 1/m above junction of upper pipeline canal & B. Chauvin
Personnel: Jones, Betty, Hughes
Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
- Clear ☐
- Drizzle/Light Rain ☑
- Showers ☐

Temperature (°F):
- Hot >85° ☐
- Warm > 75° ☑
- Mild > 65° ☐
- Cool > 60° ☐
- Cold < 60° ☐

Wind (mph):
- <1 ☐
- 1-5 ☐
- 6-10 ☑
- 11-15 ☐
- >15 ☐

Wind Direction:
- NW ☐ N ☐ NE ☑
- SW ☐ S ☐ SE ☐
- E ☐ W ☐
- Variable ☐

Cloud Cover:
- 0 – 10% ☐
- 11 – 40% ☐
- 41 – 70% ☐
- 71 – 100% ☑

Stream Characteristics: Flowing: ☑ Immeasurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☑
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 410807
Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µhmos/cm):
D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft): Time (s):
Mid Stream: Distance (ft): Time (s):
Left Descending Bank: Distance (ft): Time (s):
Cross Section Measurement ☐ Measurement Location:
Type of Measurement: Manual ☐ Fathometer ☐ Cross Section File Name:
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS ☐
Comments:

BC07 120507 9/11/03 1245

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☑ Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☑ Rock/Gravel/Silt ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☑
Percent Tree Canopy Cover 0-25% ☑ 25-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Walking ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

**Profiling Measurements:**

| | | | |
|---|---|---|---|
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

**Equipment Used:**
In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____
AquaCalc S/N _____ Fathometer: _____ Laser Gun _____
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft ≈ 0.15 m
1.0 ft ≈ 0.30 m
1.5 ft ≈ 0.45 m
2.0 ft ≈ 0.60 m
2.5 ft ≈ 0.75 m

Field Site Survey Log
Revision 2.0
Revised 3/2/03

*Site Information*

Site #: BC07 Subsegment: 120507 Date: 9/16/03 Time: 1130 hrs.

Waterbody: Bayou Chauvin Tapedown 1: ____ Staff Gauge 1: ____

Gauge Height 1: ____ Tapedown 2: ____ Staff Gauge 2: ____ Gauge Height 2: ____

Site Location: 0.1 mi above junction of upper pipeline canal & B. Chauvin

Personnel: Boffy, Jones, LaFleur

Type of Work: Recon ☐ Data Collection ☒

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☒ | Hot > 85° ☐ | <1 ☐ | NW ☐ N ☐ NE ☒ |
| Drizzle/Light Rain ☐ | Warm > 75° ☒ | 1-5 ☐ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☒ | Variable ☐ |
| 0 – 10% ☒ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☐ | | | |

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☒

Wind Influence: ☒ Wind Influence Direction: Upstream ☐ Downstream ☒

Algae Present: ☐ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☒ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: ____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____

Continuous Monitor Location: ____

Water Quality Field Parameters

Time: 1130 Temp.(°C): 28.96 pH: 7.84 Spcond(µhmos/cm): 6001

D.O.: 5.67 D.O. %: 74.9 Salinity: 3.34 Depth (m): 1m Secchi (in): 1.25

Flow Measurement: ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

Flow Estimated: ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): ____ Time (s): ____

Mid Stream: Distance (ft): ____ Time (s): ____

Left Descending Bank: Distance (ft): ____ Time (s): ____

Cross Section Measurement: ☐ Measurement Location: ____

Type of Measurement: Manual: ☐ Fathometer ☐ Cross Section File Name: ____

GPS Measurement: ☐ GPS SSF File Name: ____

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BC07 120507 9/16/03 1130hrs

Photos Taken. ☐ Picture File #s _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established. ☐ Benchmark Location: _____
Survey Equipment Used. ☐

Time of Travel Measurement. ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements.

| | | | |
|---|---|---|---|
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:
In Situ Probe S/N: 37761 Surveyor 4a S/N: _____ GPS Unit _____
AquaCalc S/N _____ Fathometer: _____ Laser Gun _____
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft = 0.15 m
1.0 ft = 0.30 m
1.5 ft = 0.45 m
2.0 ft = 0.60 m
2.5 ft = 0.75 m

Field Site Survey Sheet
Revision 2.0
Revised 3/22/04

*Site Information*

Site #: BC08 Subsegment: 120507 Date: 9/10/03 Time: 1025

Waterbody: Bayou Chauvin Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2 Gauge Height 2:

Site Location: midway b/w BC 7 & BC9

Personnel: Jones, Boffy

Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☑ | Hot > 85° ☐ | <1 ☐ | NW ☐ N ☐ NE ☑ |
| Drizzle/Light Rain ☐ | Warm > 75° ☑ | 1-5 ☑ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 50° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 50° ☐ | >16 ☐ | |
| 11 – 40% ☑ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☐ | | | |

Stream Characteristics: Flowing ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☑

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: _____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): _____

Continuous Monitor Location: _____

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ Speed(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

Flow Measurement: ☐ Measurement Location: _____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: _____

Flow Estimated: ☐ Measurement Location: _____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): _____ Time (s): _____

Mid Stream: Distance (ft): _____ Time (s): _____

Left Descending Bank: Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☑ Measurement Location: _____

Type of Measurement: Manual: ☐ Fathometer: ☑ Cross Section File Name: _____

GPS Measurement: ☐ GPS SSF File Name: _____

Site GPS: ☐ Cross Section GPS: ☐

Comments: _____

BC08 120507 9/1/03 1025

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☑ Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand Silt ☑ Rock/Gravel Silt ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☑
Percent Tree Canopy Cover 0-25% ☑ 25-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time: 1025 Temp.(°C): 27.34 pH: 7.32 Spcond(µhmos/cm): 6.996 IBV 7.5
D.O.: 2.78 D.O. %: 36.1 Salinity: 3.90 Depth (m): 1m IBATT 9.6

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Equipment Used:
In Situ Probe S/N: 40803 Surveyor 4a S/N: _____ GPS Unit: _____
AquaCalc S/N _____ Fathometer: _____ Laser Gun _____
Carters S/N: _____

References
Convert Feet to Meters
0.5 ft ≅ 0.15 m
1.0 ft ≅ 0.30 m
1.5 ft ≅ 0.45 m
2.0 ft ≅ 0.60 m
2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/21/03

*Site Information*

Site #: BCO 9 Subsegment: 120507 Date: 9/9/03 Time: 1110

Waterbody: Bayou Chauvin Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: .1 m above bulkheads of lower pipeline canal

Personnel: [illegible], Boffy

Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☐ | Hot >85° ☐ | <1 ☑ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☑ | Warm > 75° ☑ | 1-5 ☐ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 50° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 50° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☑ | | | |

Stream Characteristics: Flowing: ☑ Measurable Flow: ☑

Flow Direction Upstream ☑ Downstream ☐ Tidally Influenced: ☑

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present: ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling ☐

Continuous Monitor Deployed: ☑ Continuous Monitor S/N: 39003

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____

Continuous Monitor Location: ____

Water Quality Field Parameters

Time: ____ Temp.(°C): ____ pH: ____ Spcond(µhmos/cm): ____

D.O.: ____ D.O. %: ____ Salinity: ____ Depth (m): ____ Secchi (in): ____

Flow Measurement: ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

Flow Estimated: ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): ____ Time (s): ____

Mid Stream: Distance (ft): ____ Time (s): ____

Left Descending Bank: Distance (ft): ____ Time (s): ____

Cross Section Measurement: ☐ Measurement Location: ____

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name: ____

GPS Measurement: ☐ GPS SSF File Name: ____

Site GPS: ☐ Cross Section GPS: ☐

Comments: ____

BC09 120507 9/9/03 1110

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☑ Rock/Gravel/Silt ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☑
Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | |
|---|---|---|---|
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:
In Situ Probe S/N: _____ Surveyor 4a S/N _____ GPS Unit _____
AquaCalc S/N _____ Fathometer: _____ Laser Gun _____
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft ≅ 0.15 m
1.0 ft ≅ 0.30 m
1.5 ft ≅ 0.45 m
2.0 ft ≅ 0.60 m
2.5 ft ≅ 0.15 m

Field Site Survey Sheet
Revision 1.0
Revised 3/25/03

Site # BC-02 Subsegment: 120507 Date: 9 [illegible] Time: [illegible]
Waterbody: B. Chauvin Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: Flagging
Personnel: B. Hughes, K. Masden
Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☑ | Hot >85° ☐ | <1 ☐ | NW ☐ N ☑ NE ☐ |
| Drizzle/Light Rain ☐ | Warm > 75° ☑ | 1-5 ☑ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| **Cloud Cover:** | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☑ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☐ | | | |

gal
1.24

**Stream Characteristics:** Flowing: ☑ Measurable Flow: ☑
Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced ☑
Wind Influence: ☑ Wind Influence Direction: Upstream ☐ Downstream ☑
Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Water Quality Samples Taken:** ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): _____
Continuous Monitor Location: _____

Water Quality Field Parameters

| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): | |
|---|---|---|---|---|
| D.O.: | D.O. %: | Salinity: | Depth (m): | Secchi (in): |

**Flow Measurement:** ☑ Measurement Location: At Flagging
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name: _____
**Flow Estimated:** ☐ Measurement Location: _____
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft): _____ Time (s): _____
Mid Stream: Distance (ft) _____ Time (s): _____
Left Descending Bank: Distance (ft): _____ Time (s): _____
**Cross Section Measurement:** ☐ Measurement Location: _____
Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name: _____
**GPS Measurement:** ☐ GPS NSF File Name: _____
Site GPS: ☐ Cross Section GPS: ☐
**Comments:** ADCP measurement

BC09 120507 7/10/05 0845

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☑ Man-Made Waterbody ☐

Stream: Dry Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☑ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field Pasture ☐ Wetland ☑

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | |
|---|---|---|---|
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:

| | | |
|---|---|---|
| In Situ Probe S/N: | Surveyor 4a S/N: | GPS Unit |
| AquaCalc S/N | Fathometer: | Laser Gun |
| Camera S/N: | | |

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.2
Revised 10/2/03

*Site Information*

Site #: BC09 Subsegment: 120507 Date: 7/10/03 Time: 9:50
Waterbody: Bayou Chauvin Tapedown 1: ____ Staff Gauge 1: ____
Gauge Height 1: ____ Tapedown 2: ____ Staff Gauge 2: ____ Gauge Height 2: ____
Site Location: 1 m above bulkheads of lower pipeline canal
Personnel: Jones, Buffy
Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☑ | Hot >85° ☐ | <1 ☐ | NW ☐ N ☐ NE ☑ |
| Drizzle/Light Rain ☐ | Warm > 75° ☑ | 1-5 ☑ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover | Cool > 60° ☐ | 11-25 ☐ | Variable ☐ |
| 0 – 10% ☑ | Cold < 60° ☐ | >26 ☐ | |
| 11 – 40% ☑ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☐ | | | |

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☑
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present: ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ Water Quality Field Parameters: ☐ Profiling: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N: ____
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____
Continuous Monitor Location: ____

Water Quality Field Parameters

Time: 955 Temp (°C): 27.76 pH: 7.35 Spcond (µmhos/cm): 7601
D.O.: 2.91 D.O. %: 37.9 Salinity: 4.24 Depth (m): 1m Secchi (in): 18

Flow Measurement: ☐ Measurement Location: ____
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name: ____
Flow Estimated: ☐ Measurement Location: ____
Using Discharge Equipment ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft): ____ Time (s): ____
Mid Stream: Distance (ft): ____ Time (s): ____
Left Descending Bank: Distance (ft): ____ Time (s): ____
Cross Section Measurement: ☐ Measurement Location: ____
Type of Measurement: Manual ☐ Fathometer ☐ Cross Section File Name: ____
GPS Measurement: ☐ GPS SSF File Name: ____
Site GPS: ☐ Cross Section GPS ☐
Comments: ____

AC09 120507 9/10/03 09:50

Photos Taken ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (mL): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☑ Man-Made Waterbody: ☐
Stream Dry Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt: ☑ Rock/Gravel/Silt ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☑
Percent Tree Canopy Cover: 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | 9:50 | Temp.(°C): | 27.16 | pH: | 7.35 | Spcond(µhmos/cm): | 7,601 |
| D.O.: | 2.91 | D.O. %: | 37.9 | Salinity: | 4.24 | Depth (m): | 1m. |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used:
In Situ Probe S/N: 40803 Surveyor 4a S/N: _____ GPS Unit _____
AquaCalc S/N _____ Fathometer: _____ Laser Gun _____
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft ≅ 0.15 m
1.0 ft ≅ 0.30 m
1.5 ft ≅ 0.45 m
2.0 ft ≅ 0.60 m
2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/20/02

Site #: BCM Subsegment: _____ Date: 9/1/03 Time: 1100 hrs

Waterbody: Bay Chauvin Tapedown 1: _____ Staff Gauge 1: _____

Gauge Height 1: _____ Tapedown 2: _____ Staff Gauge 2: _____ Gauge Height 2: _____

Site Location: _____

Personnel: Brignac Greenwood

Type of Work: Recon ☐ Data Collection ☐

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☑ | Hot >85° ☑ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm 75-85° ☐ | 1-5 ☑ | SW ☐ S ☑ SE ☐ |
| Showers ☐ | Mild 65-75° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool 60-65° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☑ | | | |
| 71 – 100% ☐ | | | |

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present: ☐ Sedimentation Turbidity Present in Water Column ☐

Floating Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 38981

Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m): _____

Continuous Monitor Location: _____

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

Flow Measurement: ☐ Measurement Location: _____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: _____

Flow Estimated: ☐ Measurement Location: _____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): _____ Time (s): _____

Mid Stream: Distance (ft): _____ Time (s): _____

Left Descending Bank: Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Measurement Location: _____

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name: _____

GPS Measurement: ☐ GPS SSF File Name: _____

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BC09 120507 9/11/03 1100hrs

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.( °C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.( °C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.( °C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used:

In Situ Probe S/N: Surveyor 4a S/N: GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

*Site Information*

Site #: BC09 Subsegment: 120507 Date: 9 16:03 Time: 1145 hrs.
Waterbody: Bayou Chauvin Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: 0.1 mi above bulkheads of lower pipeline canal
Personnel: Boffy, Jones, LaFleur
Type of Work: Recon ☐ Data Collection ☒

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☒ | Hot >85° ☐ | <5 ☐ | NW ☐ N ☐ NE ☒ |
| Drizzle/Light Rain ☐ | Warm > 75° ☒ | 5-5 ☐ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☒ | Variable ☐ |
| 0 - 10% ☒ | Cold < 60° ☐ | >16 ☐ | |
| 11 - 40% ☐ | | | |
| 41 - 70% ☐ | | | |
| 71 - 100% ☐ | | | |

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced ☒
Wind Influence: ☒ Wind Influence Direction: Upstream ☐ Downstream ☒
Algae Present: ☐ Sedimentation Turbidity Present in Water Column ☒
Emergent Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☒ Profiling: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

Time: 1145 Temp.(°C): 28.41 pH: 7.98 Spcond(µmhos/cm): 9154
D.O.: 6.37 D.O. %: 86.6 Salinity: 5.15 Depth (m): 1 m Secchi (in): 1.5'

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank Distance (ft): Time (s):
Mid Stream: Distance (ft): Time (s):
Left Descending Bank: Distance (ft): Time (s):
Cross Section Measurement: ☐ Measurement Location:
Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name
GPS Measurement ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS ☐
Comments:

BC09 120507 9/16/03 1145hrs

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | |
|---|---|---|---|
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:

In Situ Probe S/N: 37761 Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey doc
Revision 2.0
Rev 4ed 7/21/03

*Site Information*

Site # SL01 Subsegment 120507 Date 9/9/03 Time 1050 hrs
Waterbody: St. Louis Canal Tapedown 1: — Staff Gauge 1: —
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: 0.5 miles west of Bayou Chauvin
Personnel: Schwabe, Sweat
Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☐ | Hot >85° ☐ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☑ | Warm > 75° ☑ | 1-5 ☑ | SW ☐ S ☑ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☑ | | | |

Stream Characteristics: Flowing ☐ Measurable Flow: ☐
Flow Direction: Upstream ☐ Downstream ☐ Tidally Influenced ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☑

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐
Continuous Monitor Deployed: ☑ Continuous Monitor S/N: 40010
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 0.5 m
Continuous Monitor Location: 0.5 miles west of Bayou Chauvin

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(uhmos/cm):
D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft): Time (s):
Mid Stream: Distance (ft): Time (s):
Left Descending Bank: Distance (ft): Time (s):
Cross Section Measurement: ☑ Measurement Location: 0.5 miles west of Bayou Chauvin
Type of Measurement: Manual: ☐ Flowmeter ☑ Cross Section File Name: SL01
GPS Measurement: ☐ GPS SIP File Name:
Site GPS: ☐ Cross Section GPS: ☐
Comments:

SL01 120507 9/9/03 1050hrs

Photos Taken: ☐ Picture File #: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☑

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☑ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☑ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

**Profiling Measurements:**

| | | | |
|---|---|---|---|
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

**Equipment Used:**

| | | |
|---|---|---|
| In Situ Probe S/N: | Surveyor 4a S/N: | GPS Unit |
| AquaCalc S/N | Fathometer: | Laser Gun |
| Camera S/N: | | |

**References**

Convert Feet to Meters

0.5 ft 0.15 m
1.0 ft 0.30 m
1.5 ft 0.45 m
2.0 ft 0.60 m
2.5 ft 0.75 m

Field Site Survey doc
Revision 1.0

*Site Information*

Site #: SL 01 Subsegment: 120507 Date: 8/10/03 Time: 1115 hrs
Waterbody: St. Louis Canal Tapedown 1: ___ Staff Gauge 1: ___
Gauge Height 1: ___ Tapedown 2: ___ Staff Gauge 2: ___ Gauge Height 2: ___
Site Location: 0.5 mile west of Bayou Chauvin
Personnel: Schmitz, Savant
Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☑ | Hot > 85° ☑ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm > 75° ☐ | 1-5 ☑ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☑ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☐ | | | |

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐
Flow Direction: Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ Water Quality Field Parameters: ☑ Profiling: ☐ S/N 40810
Continuous Monitor Deployed: ☐ Continuous Monitor S/N: ___
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ___
Continuous Monitor Location: ___

Water Quality Field Parameters

Time: 1115 hrs Temp. (°C): 26.85 pH: 6.87 Spcond (µhmos/cm): 1304
D.O.: 1.99 D.O. %: 25.1 Salinity: 0.69 Depth (m): 0.5 m Secchi (in): ___

Flow Measurement: ☐ Measurement Location: ___
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name: ___
Flow Estimated: ☐ Measurement Location: ___
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate ☑ Dye Estimate: ☐
Right Descending Bank: Distance (ft): ___ Time (s): ___
Mid Stream: Distance (ft): 0 Time (s): 300 sec
Left Descending Bank: Distance (ft): ___ Time (s): ___
Cross Section Measurement: ☐ Measurement Location: ___
Type of Measurement: Manual: ☐ Fathometer ☐ Cross Section File Name: ___
GPS Measurement: ☐ GPS SSF File Name: ___
Site GPS: ☐ Cross Section GPS: ☐
Comments:

SLC1 120507 9/10/03 1115hrs

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody ☑

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Remit Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

| | | | |
|---|---|---|---|
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:

In Situ Probe S/N: Surveyor 4a S/N: GPS Unit

AquaCalc S/N Fathometer: Laser Gun

Camera S/N

References

Convert Feet to Meters

0.5 ft 0.15 m

1.0 ft 0.30 m

1.5 ft 0.45 m

2.0 ft 0.60 m

2.5 ft 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/11

*Site Information*

Site #: 5191 Subsegment: 120507 Date: 9/11/03 Time: _____

Waterbody: _____ Tapedown 1: _____ Staff Gauge 1: _____

Gauge Height 1: _____ Tapedown 2: _____ Staff Gauge 2: _____ Gauge Height 2: _____

Site Location: 0.5 miles west of Bayou Chauvin

Personnel: Jones, Boffy, Hughes

Type of Work: Recon ☐ Data Collection ☐

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☐ | Hot >85° ☐ | <1 ☐ | NW ☐ N ☐ NE ☑ |
| Drizzle/Light Rain ☑ | Warm > 75° ☑ | 1-5 ☑ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 55° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover | Cool > 50° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 50° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☑ | | | |

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction: Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present: ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <5 ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 40010

Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m): _____

Continuous Monitor Location: _____

Water Quality Field Parameters

Time: _____ Temp. (°C): _____ pH: _____ Spcond (µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

Flow Measurement: ☐ Measurement Location: _____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: _____

Flow Estimated: ☐ Measurement Location: _____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): _____ Time (s): _____

Mid Stream: Distance (ft): _____ Time (s): _____

Left Descending Bank: Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Measurement Location: _____

Type of Measurement: Manual: ☐ Fathometer ☐ Cross Section File Name: _____

GPS Measurement: ☐ GPS SSF File Name: _____

Site GPS: ☐ Cross Section GPS: ☐

Comments: _____

SL01 120507 9/11/03

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☑

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☑ Wetland ☐

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | |
|---|---|---|---|
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft = 0.15 m

1.0 ft = 0.30 m

1.5 ft = 0.45 m

2.0 ft = 0.60 m

2.5 ft = 0.75 m

Field Site Survey.doc
Revision 1.0
Revised 1/15/03

*Site Information*

Site #: 5202 Subsegment: 120507 Date: 9.9.03 Time: 1220 hrs.

Waterbody: St. Louis Canal Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: Just east of Junction w/ north-south canal B/t B. Chau and St. L. Canal

Personnel: Savant, Schwartz

Type of Work: Recon ☐ Data Collection ☒

| Weather Conditions: | Temperature (°F): | Wind mph: | Wind Direction: |
|---|---|---|---|
| Clear ☐ | Hot > 85° ☐ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☒ | Warm > 75° ☒ | 1-5 ☒ | SW ☐ S ☒ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☒ | | | |

Stream Characteristics. Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: Temp. (°C): pH: Spcond (µmhos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (m):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location: Just east of junction w/ North-South canal B/t B. Char and St. L. Canal

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☒ Measurement Location:

Type of Measurement Manual: ☒ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

SL002 120507 7/9/03 1220hrs

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☑

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt: ☐ Rock/Gravel/Silt: ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam: ☐ Log Jam: ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☑

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

**Profiling Measurements:**

| | | | |
|---|---|---|---|
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:

| | | |
|---|---|---|
| In Situ Probe S/N: | Surveyor 4a S/N: | GPS Unit |
| AquaCalc S/N | Fathometer: | Laser Gun |
| Camera S/N: | | |

References

Convert Feet to Meters

0.5 ft 0.15 m
1.0 ft 0.30 m
1.5 ft 0.45 m
2.0 ft 0.60 m
2.5 ft 0.75 m

Field Site Survey.doc
Revision 2.0

*Site Information*

Site #: SL 02 Subsegment: 120507 Date: 9/10/03 Time: 0830 hrs
Waterbody: St. Louis Canal Tapedown 1: — Staff Gauge 1: —
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: East of Junction w/ North South Canal
Personnel: Schwartz, Savant
Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☑ | Hot >85° ☐ | <1 ☑ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm >75° ☑ | 1-5 ☐ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild >65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool >50° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☑ | Cold <50° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☐ | | | |

Stream Characteristics: Flowing ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present: ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ Water Quality Field Parameters: ☑ Profiling: ☐ SN 40810
Continuous Monitor Deployed: ☐ Continuous Monitor S/N:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

Time: 0830 Temp.(°C): 25.95 pH: 6.83 Spcond(ohmos/cm): 1852
D.O.: 1.97 D.O. %: 24.4 Salinity: 0.99 Depth (m): 0.5 Secchi (in): —

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate ☐
Right Descending Bank: Distance (ft): Time (s):
Mid Stream: Distance (ft): Time (s):
Left Descending Bank: Distance (ft): Time (s):
Cross Section Measurement: ☐ Measurement Location:
Type of Measurement: Manual ☐ Fathometer ☐ Cross Section File Name:
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐
Comments:

52.0cl 120507 9/10/05 0830hrs

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☑

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☑

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☑ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

**Profiling Measurements:**

| | | | |
|---|---|---|---|
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used.

| | | |
|---|---|---|
| In Situ Probe S/N: | Surveyor 4a S/N: | GPS Unit |
| AquaCalc S/N: | Fathometer: | Laser Gun |
| Camera S/N: | | |

References

Convert Feet to Meters

0.5 ft 0.15 m
1.0 ft 0.30 m
1.5 ft 0.45 m
2.0 ft 0.60 m
2.5 ft 0.75 m

File: Site Survey.doc
Revision 2.0
Revised 3/7/07

*Site Information*

Site #: C.01 Subsegment: 120507 Date: 7/10/03 Time: 0925 hrs

Waterbody: Canal Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: Bayou Chauvin above St. Louis Canal @ Pumps

Personnel: Schuster, Sweat

Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☑ | Hot >85° ☐ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm 75 ☑ | 1-5 ☑ | SW ☐ S ☑ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0-10% ☑ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☐ | | | |

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present: ☐ Sedimentation Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: 0 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☑

Water Quality Samples Taken: ☑ Water Quality Field Parameters: ☑ Profiling ☐ S/N 40810

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: 0925 Temp.(°C): 25.27 pH: 6.71 Spcond(µhmos/cm): 1322

D.O.: 0.16 D.O. %: 1.9 Salinity: 0.70 Depth (m): 0.5 Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement: Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

C01 120507 9/10/03 0925hrs

Photos Taken: ☐ Picture File #s: ____

Tapedown Established: ☐ Tapedown Location: ____

Benchmark Established: ☐ Benchmark Location: ____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): ____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☑

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☑ Location: @ Bayou Chauvin

Type: Man Made Dam ☐ Flow Regulation Device ☑ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☑ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover: 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☑

Recon Information

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: ____

Cross Section Location: ____

Continuous Monitor Deployment: ____

Continuous Monitor Location: ____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

| | | | |
|---|---|---|---|
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.( C): | pH: | Spcond( hmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:

| | | |
|---|---|---|
| In Situ Probe S/N: | Surveyor 4a S/N: | GPS Unit |
| AquaCalc S/N | Fathometer: | Laser Gun |
| Camera S/N | | |

References

Convert Feet to Meters

0.5 ft 0.15 m
1.0 ft 0.30 m
1.5 ft 0.45 m
2.0 ft 0.60 m
2.5 ft 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 1/23/03

*Site Information*

Site #: C02 Subsegment: 120507 Date: 9.20.03 Time: 1000hr
Waterbody: Canal Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: Pumped to dredged canal
Personnel: Lufleur, Dicanson
Type of Work: Recon ☐ Data Collection ☒

| Weather Conditions | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☒ | Hot > 85° ☒ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm > 75° ☐ | 1-5 ☒ | SW ☐ S ☐ SE ☒ |
| Showers ☐ | Mild > 55° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 20% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 21 – 40% ☒ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☐ | | | |

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present ☒ Sedimentation/Turbidity Present in Water Column ☒
Floating/Aquatic Vegetation % Surface Coverage: 0 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☒

Water Quality Samples Taken: ☒ Water Quality Field Parameters: ☒ Profiling: ☐
Continuous Monitor Deployed ☐ Continuous Monitor S/N:
Continuous Monitor Retrieved ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

IBa-10.9
IBv-7.4

Time: 1000hr Temp. (°C): 25.61 pH: 6.46 Specond (µmhos/cm): 1089
D.O.: 0.18 D.O. %: 23 Salinity: 0.57 Depth (m): 1.0m Secchi (in):

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCale File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft): Time (s):
Mid Stream: Distance (ft): Time (s):
Left Descending Bank: Distance (ft): Time (s):
Cross Section Measurement: ☐ Measurement Location:
Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐
Comments: Water Quality Samples Taken & In-situ

C02 120507 9/10/03 1000hr

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☒

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☒ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☒

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used.

In Situ Probe S/N: 40008 Surveyor 4a S/N: 51969 GPS Unit _____

AquaCalc S/N _____ Fathometer _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

TMS Site Survey.doc
Revision 2.0
Revised 5/23/03

*Site Information*

Site #: BB01 Subsegment: 120507 Date: 9/10 03 Time: 9:10

Waterbody: Bayou Butler Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: .1m above junction of upper pipeline canal

Personnel: Jones, Boffy

Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☑ | Hot > 85° ☑ | <1 ☑ | NW ☐ N ☐ NE ☐ |
| Sprinkle/Light Rain ☐ | Warm > 75° ☐ | 1-5 ☐ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☑ | Cold < 60° ☐ | >16 ☐ | |
| 1: – 40% ☐ | | | |
| 4: – 70% ☐ | | | |
| 7: – 100% ☐ | | | |

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☑

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present: ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 2

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: Temp.( °C): pH: Spcond(µhmos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☑ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☑ Cross Section File Name:

GPS Measurement ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BB01 120507 9/10/03 9:10

Photos Taken: ☐ Image File #s: _____

Tapedown Established: ☐ Tapedown Location _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☑ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☑

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time: 9:10 Temp.(°C): 27.14 pH: 7.32 Spcond(µhmos/cm): 5,014 IBV. 7.5

D.O.: 3.52 D.O. %: 45.3 Salinity: 2.75 Depth (m): .75m IBATT 9.7

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Equipment Used:

In Situ Probe S/N: 48803 Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/23/02

Site #: 8802 Subsegment: 120507 Date: 9/9/5 Time: 1100

Waterbody: Bayou Butler Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: @ lower pipeline canal bulkheads

Personnel: Jones, Betty

Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☐ | Hot >85° ☐ | <1 ☑ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☑ | Warm > 75° ☑ | 1-5 ☐ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☑ | | | |

**Stream Characteristics:** Flowing: ☑ Measurable Flow: ☑

Flow Direction Upstream ☑ Downstream ☐ Tidally Influenced: ☑

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Water Quality Samples Taken:** ☐ **Water Quality Field Parameters:** ☐ **Profiling:** ☐

Continuous Monitor Deployed: ☑ Continuous Monitor S/N: 40805

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

**Time:** **Temp.(°C):** **pH:** **Spcond(µhmos/cm):**

**D.O.:** **D.O. %:** **Salinity:** **Depth (m):** **Secchi (in):**

**Flow Measurement:** ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

**Flow Estimated:** ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

**Cross Section Measurement** ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

**GPS Measurement:** ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

**Comments:**

BBOL 120507 9/9/03 1100

Photos Taken ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody ☑ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☑ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☑

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/99

*Site Information*

Site #: BB02 Subsegment: 120507 Date: 7/10 c Time: 920

Waterbody: Bayou Bellier Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: @ lower pipeline Canal bulkheads

Personnel: Jones, Boffy

Type of Work: Recon ☐ Data Collection ☑

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☑ | Hot >85° ☑ | <1 ☐ | NW ☐ N ☐ NE ☑ |
| Drizzle Light Rain ☐ | Warm > 75° ☐ | 1-5 ☑ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 -10% ☑ | Cold < 60° ☐ | >16 ☐ | |
| 11 - 40% ☐ | | | |
| 41 - 70% ☐ | | | |
| 71 - 100% ☐ | | | |

Stream Characteristics: Flowing: ☑ Measurable Flow ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced ☑

Wind Influence: ☐ Wind Influence Direction Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken ☑ Water Quality Field Parameters ☐ Profiling ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: 920 Temp.(°C): 27.0 pH: 7.08 Spcond(µhmos/cm): 6471

D.O.: 2.36 D.O. %: 30.4 Salinity: 3.59 Depth (m): 1m Secchi (in): 24

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s)

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS ☐

Comments:

BB02 120507 9/10/03 920

Photo Taken ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover: 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

Time: 920 Temp.(°C): 27.0 pH: 7.08 Spcond(µhmos/cm): 6,471 IBV: 7.5

D.O.: 2.36 D.O. %: 30.4 Salinity: 3.59 Depth (m): 1m IBATT: 9.6

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Equipment Used:

In Situ Probe S/N: 40803 Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey Sheet
Revision 2.0
Revised 3/25/03

*Site Information*

Site #: BB02 Subsegment: ____ Date: 9.11.03 Time: 1110 hrs.
Waterbody: Bayou Butler Tapedown 1: ____ Staff Gauge 1: ____
Gauge Height 1: ____ Tapedown 2: ____ Staff Gauge 2: ____ Gauge Height 2: ____
Site Location: At lower pipeline canal bulkheads
Personnel: Brignac, Greenwood
Type of Work: Recon ☐ Data Collection ☐

**Weather Conditions:**
- Clear ☑
- Drizzle/Light Rain ☐
- Showers ☐

**Cloud Cover:**
- 0 – 10% ☐
- 11 – 40% ☐
- 41 – 70% ☐
- 71 – 100% ☑

**Temperature (°F):**
- Hot > 85° ☑
- Warm > 75° ☐
- Mild > 65° ☐
- Cool > 60° ☐
- Cold < 60° ☐

**Wind (mph):**
- <1 ☐
- 1-5 ☐
- 6-10 ☑
- 11-15 ☐
- >16 ☐

**Wind Direction:**
- NW ☐ N ☐ NE ☐
- SW ☐ S ☐ SE ☑
- E ☐ W ☐
- Variable ☐

**Stream Characteristics:** Flowing: ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Water Quality Samples Taken:** ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 40805
Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m): ____
Continuous Monitor Location: ____

Water Quality Field Parameters

Time: ____ Temp.(°C): ____ pH: ____ Spcond(µhmos/cm): ____
D.O.: ____ D.O. %: ____ Salinity: ____ Depth (m): ____ Secchi (in): ____

**Flow Measurement:** ☐ Measurement Location: ____
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name: ____

**Flow Estimated:** ☐ Measurement Location: ____
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft): ____ Time (s): ____
Mid Stream: Distance (ft): ____ Time (s): ____
Left Descending Bank: Distance (ft): ____ Time (s): ____

**Cross Section Measurement:** ☐ Measurement Location: ____
Type of Measurement: Manual: ☐ Fathometer ☐ Cross Section File Name: ____

**GPS Measurement:** ☐ GPS SSF File Name: ____
Site GPS: ☐ Cross Section GPS: ☐

**Comments:**

BB02 120507 9/11/03 1110hrs

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurements: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | |
|---|---|---|---|
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCale S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

2.5 ft = 0.15 m

1.0 ft = 0.30 m

1.5 ft = 0.45 m

2.0 ft = 0.60 m

2.5 ft = 0.75 m

Field Sur Survey.doc
Revision 2.0
Revised 3/25/03

Site # UPC-01 Subsegment: 120507 Date: 9-9-03 Time: 1315 hr
Waterbody: Upper Ripeline Canal Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: About 1.4 Miles east of Bayou Chauvin
Personnel: Lafleur, Dickinson
Type of Work: Recon ☐ Data Collection ☒

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☐ | Hot >85° ☒ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☒ | Warm > 75° ☐ | 1-5 ☒ | SW ☐ S ☒ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 - 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 - 40% ☐ | | | |
| 41 - 70% ☐ | | | |
| 71 - 100% ☒ | | | |

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐
Flow Direction Upstream: ☐ Downstream ☐ Tidally Influenced: ☒
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒
Floating Aquatic Vegetation % Surface Coverage: 0 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters ☐ Profiling: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

Time: Temp.( °C): pH: Spcond(µhmos/cm):
D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft) Time (s):
Mid Stream: Distance (ft): Time (s):
Left Descending Bank: Distance (ft): Time (s):
Cross Section Measurement: ☒ Measurement Location: 1.4 Miles east of Bayou Chauvin
Type of Measurement Manual ☐ Fathometer ☒ Cross Section File Name: UPC-01
GPS Measurement: ☐ GPS SSF File Name:
Site GPS ☐ Cross Section GPS: ☐
Comments: X-Section

Photos Taken: ☐ Picture File #s: 4PC01 120507 9/9/03 1315hr

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody ☐ Man-Made Waterbody: ☒

Stream: Dry/Intermittent ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: 11951 Laser Gun 32005010551

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/23/03

*Site Information*

Site #: UPC-01 Subsegment: 120507 Date: 9-10-03 Time: 1200hr
Waterbody: Upper Pipeline Canal Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: 1.4 Miles east of Bayou Chauvin
Personnel: Dickinson, Lafleur
Type of Work: Recon ☐ Data Collection ☒

| Weather Conditions | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☒ | Hot > 85° ☒ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm > 75° ☐ | 1-5 ☒ | SW ☐ S ☐ SE ☒ |
| Showers ☐ | Mild > 55° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 50° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 50° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☒ | | | |
| 71 – 100% ☐ | | | |

Stream Characteristics Flowing: ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☒
Wind Influence: ☒ Wind Influence Direction: Upstream ☒ Downstream ☐
Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒
Floating/Aquatic Vegetation % Surface Coverage: ☒ 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☒ Profiling: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

Time: 1200hr Temp.(°C): 28.94 pH: 7.64 Spcond(µhmos/cm): 6620 IBV- 7.4
D.O.: 6.50 D.O. %: 82.3 Salinity: 3.67 Depth (m): 0.5m Secchi (in): IDa- 10.9

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft): Time (s):
Mid Stream: Distance (ft): Time (s):
Left Descending Bank: Distance (ft): Time (s):
Cross Section Measurement: ☐ Measurement Location:
Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:
GPS Measurement: ☐ GPS SSF File Name:
Site GPS ☐ Cross Section GPS ☐
Comments: In-situ

UPC-01 120507 9/10/03 12cohx

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody ☐ Man-Made Waterbody: ☒
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock Gravel/Silt ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒
Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used:
In Situ Probe S/N: 4W08 Surveyor 4a S/N: 51969 GPS Unit _____
AquaCalc S/N _____ Fathometer: _____ Laser Gun _____
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft ≅ 0.15 m
1.0 ft ≅ 0.30 m
1.5 ft ≅ 0.45 m
2.0 ft ≅ 0.60 m
2.5 ft ≅ 0.75 m

Field Site Survey doc
Revision 2.0
Revised 5/22/03

*Site Information*

Site #: DC-01 Subsegment: 120507 Date: 9-9-03 Time: 1105hr

Waterbody: East - West Dredged Canal Tapedown 1: _____ Staff Gauge 1: _____

Gauge Height 1: _____ Tapedown 2: _____ Staff Gauge 2: _____ Gauge Height 2: _____

Site Location: 0.4 Mile Southwest of Pumps

Personnel: Dickinson, Lafleur

Type of Work: Recon ☐ Data Collection ☒

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction |
|---|---|---|---|
| Clear ☐ | Hot >85° ☒ | <1 ☒ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☒ | Warm > 75° ☐ | 1-5 ☐ | SW ☐ S ☒ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 1 - 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 - 40% ☐ | | | |
| 41 - 70% ☐ | | | |
| 71 - 100% ☒ | | | |

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☒

Wind Influence: ☒ Wind Influence Direction: Upstream ☐ Downstream ☒

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☒ Continuous Monitor S/N: 29895

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 1.0m

Continuous Monitor Location: 0.4 Mile Southwest of Pumps

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

Flow Measurement: ☐ Measurement Location: _____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: _____

Flow Estimated: ☐ Measurement Location: _____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): _____ Time (s): _____

Mid Stream: Distance (ft): _____ Time (s): _____

Left Descending Bank: Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☒ Measurement Location: 0.4 Mile Southwest of Pumps

Type of Measurement Manual: ☐ Fathometer: ☒ Cross Section File Name: DC-01

GPS Measurement: ☐ GPS SSF File Name: _____

Site GPS: ☐ Cross Section GPS: ☐

Comments: Continuous Monitor Deployed at 1113 hr & X-Section

DC-01 120507 9/9/03 1105 hr

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody ☒
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒
Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

**Profiling Measurements:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used:
In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____
AquaCalc S/N _____ Fathometer: 11951 Laser Gun 32005010551
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft ≅ 0.15 m
1.0 ft ≅ 0.30 m
1.5 ft ≅ 0.45 m
2.0 ft ≅ 0.60 m
2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/21/03

*Site Information*

Site #: DC-01 Subsegment: 120507 Date: 9/10/03 Time: 1050hr

Waterbody: East - West Dredged Canal Tapedown 1: ____ Staff Gauge 1: ____

Gauge Height 1: ____ Tapedown 2: ____ Staff Gauge 2: ____ Gauge Height 2: ____

Site Location: 0.4 Mile Southwest of pumps

Personnel: Dickinson, Lafleur

Type of Work: Recon ☐ Data Collection ☒

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☒ | Hot >85° ☒ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm > 75° ☐ | 1-5 ☒ | SW ☐ S ☐ SE ☒ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 - 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 - 40% ☐ | | | |
| 41 - 70% ☒ | | | |
| 71 - 100% ☐ | | | |

**Stream Characteristics:** Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☒

Wind Influence: ☒ Wind Influence Direction: Upstream ☐ Downstream ☒

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒

Emergent/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Water Quality Samples Taken:** ☒ **Water Quality Field Parameters:** ☒ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: ____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____

Continuous Monitor Location: ____

Water Quality Field Parameters

IBV-73
IBa-11.0

Time: 1050hr Temp.(°C): 28.21 pH: 7.29 Spcond(µmhos/cm): 49417

D.O.: 2.74 D.O. %: 35.2 Salinity: 2.72 Depth (m): 1.0m Secchi (in): —

**Flow Measurement:** ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

**Flow Estimated:** ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): ____ Time (s): ____

Mid Stream: Distance (ft): ____ Time (s): ____

Left Descending Bank: Distance (ft): ____ Time (s): ____

**Cross Section Measurement:** ☐ Measurement Location: ____

Type of Measurement: Manual ☐ Fathometer ☐ Cross Section File Name: ____

**GPS Measurement:** ☐ GPS SSF File Name: ____

Site GPS ☐ Cross Section GPS ☐

**Comments:** Water Quality Samples Taken & In-Situ Spoke with crab fisherman who said that crabs die in traps when pumps are running

DC-01 120507 9/11/05 1050hr

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____ GV

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐ Man-Made Waterbody: ☒

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge: ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.( °C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.( °C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.( °C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used:

In Situ Probe S/N: 40008 Surveyor 4a S/N: 81969 GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

*Site Information*

Site # DC 01 Subsegment: 120507 Date: 9/11/03 Time 1130

Waterbody: Dredged Canal (East-West) Tape down 1: Staff Gauge 1:

Gauge Height 1: Tape down 2: Staff Gauge 2: Gauge Height 2:

Site Location: 0.4 mi SW of pumps

Personnel: Jones Boffy Hughes

Type of Work: Recon ☐ Data Collection ☐

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☐ | Hot >85° ☐ | <1 ☐ | NW ☐ N ☐ NE ☑ |
| Drizzle/Light Rain ☑ | Warm > 75° ☑ | 1-5 ☑ | SW ☐ S ☐ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 - 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☑ | | | |

Stream Characteristics: Flowing ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 39895

Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: Temp.(°C): pH: Specond(µhmos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

DC01 120507 9/11/03 1130hrs

Photos Taken: ☐ Photo File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑ Sand/Silt: ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☑

Percent Tree Canopy Cover: 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft = 0.15 m

1.0 ft = 0.30 m

1.5 ft = 0.45 m

2.0 ft = 0.60 m

2.5 ft = 0.75 m

Field Site Survey.doc
Rev 4-96 2.0
Revised 5/25/03

*Site Information*

Site #: DC-02 Subsegment: 120507 Date: 9/7/03 Time: 1235hr
Waterbody: North-South Dredged Canal Tapedown 1: _____ Staff Gauge 1: _____
Gauge Height 1: _____ Tapedown 2: _____ Staff Gauge 2: _____ Gauge Height 2: _____
Site Location: 1.6 miles from East-West Dredged Canal
Personnel: Dickinson, LaFleur

**Type of Work:** Recon ☐ Data Collection ☒

| **Weather Conditions:** | **Temperature (°F):** | **Wind (mph):** | **Wind Direction:** |
|---|---|---|---|
| Clear ☐ | Hot > 85° ☒ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☒ | Warm > 75° ☐ | 1-5 ☒ | SW ☐ S ☒ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| **Cloud Cover:** | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 - 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 - 40% ☐ | | | |
| 41 - 70% ☐ | | | |
| 71 - 100% ☒ | | | |

**Stream Characteristics:** Flowing: ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced ☒
Wind Influence ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒
Floating Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Water Quality Samples Taken** ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): _____
Continuous Monitor Location: _____

Water Quality Field Parameters

| Time: | Temp.(°C): | pH: | Spcond(uhmos/cm): |
|---|---|---|---|
| D.O.: | D.O. %: | Salinity: | Depth (m): Secchi (in): |

**Flow Measurement:** ☐ Measurement Location: _____
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name: _____
**Flow Estimated:** ☐ Measurement Location: _____
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft): _____ Time (s): _____
Mid Stream: Distance (ft): _____ Time (s): _____
Left Descending Bank: Distance (ft): _____ Time (s): _____
**Cross Section Measurement:** ☒ Measurement Location: 1.6 Miles from East-West Dredged Canal
Type of Measurement: Manual ☐ Fathometer ☒ Cross Section File Name: DC-02
**GPS Measurement:** ☐ GPS SSF File Name: _____
Site GPS: ☐ Cross Section GPS: ☐
**Comments:** X-Section

DCC2 120507 9/9/03 1335hr

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics Natural Waterbody: ☒ Man Altered Waterbody: ☐ Man-Made Waterbody: ☒
Stream: Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel Silt ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒
Percent Tree Canopy Cover: 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used:
In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____
AquaCalc S/N _____ Fathometer: 11951 Laser Gun 3000501ACS1
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft ≅ 0.15 m
1.0 ft ≅ 0.30 m
1.5 ft ≅ 0.45 m
2.0 ft ≅ 0.60 m
2.5 ft ≅ 0.75 m

Field Site Survey doc
Rev on 2.0
Revised 3/25/03

***Site Information***

Site #: DC-02 Subsegment: 120507 Date: 9/10/2 Time: 1120 hr
Waterbody: North-South Dredged Canal Tapedown 1: ____ Staff Gauge 1: ____
Gauge Height 1: ____ Tapedown 2: ____ Staff Gauge 2: ____ Gauge Height 2: ____
Site Location: About 1½ Miles from East-West Dredged Canal
Personnel: Lefleur, Dickinson
Type of Work: Recon ☐ Data Collection ☒

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☒ | Hot > 85° ☒ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm > 75° ☐ | 1-5 ☒ | SW ☐ S ☐ SE ☒ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| **Cloud Cover:** | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☒ | | | |
| 71 – 100% ☐ | | | |

**Stream Characteristics** Flowing: ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☒
Wind Influence: ☒ Wind Influence Direction: Upstream ☒ Downstream ☐
Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒
Floating Aquatic Vegetation % Surface Coverage: ≤1% ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Water Quality Samples Taken:** ☐ **Water Quality Field Parameters:** ☒ Profiling: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N: ____
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____
Continuous Monitor Location: ____

Water Quality Field Parameters

IBV - 7.4
IBa - 10.9

Time: 1120 Temp.(°C): 28.13 pH: 7.52 Spcond(µhmos/cm): 5581
D.O.: 3.51 D.O. %: 45.7 Salinity: 3.08 Depth (m): 1.0 Secchi (in): ____

**Flow Measurement:** ☐ Measurement Location: ____
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name: ____
**Flow Estimated:** ☐ Measurement Location: ____
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft): ____ Time (s): ____
Mid Stream: Distance (ft): ____ Time (s): ____
Left Descending Bank: Distance (ft): ____ Time (s): ____
**Cross Section Measurement:** ☐ Measurement Location: ____
Type of Measurement Manual: ☐ Fathometer: ☐ Cross Section File Name: ____
**GPS Measurement:** ☐ GPS SSF File Name: ____
Site GPS: ☐ Cross Section GPS: ☐
**Comment(s):** In-situ

DC02 120507 9/10/03 1120hr

Photos Taken: ☐ Picture File #s. _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody ☐ Man Altered Waterbody ☐ Man-Made Waterbody ☒

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand Silt ☐ Rock/Gravel Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width _____ Bridge Height _____

Profiling Measurements

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used:

In Situ Probe S/N: 40008 Surveyor 4a S/N: 51969 GPS Unit: _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≈ 0.15 m

1.0 ft ≈ 0.30 m

1.5 ft ≈ 0.45 m

2.0 ft ≈ 0.60 m

2.5 ft ≈ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 5/25/03

*Site Information*

Site #: DC-03 Subsegment: 120507 Date: 9.9.02 Time: 1325hr

Waterbody: East-West Dredged Canal Tape down 1: ____ Staff Gauge 1: ____

Gauge Height 1: ____ Tapedown 2: ____ Staff Gauge 2: ____ Gauge Height 2: ____

Site Location: About 24 Miles east of Bayou Chauvin

Personnel: Dickinson, Lafleur

**Type of Work:** Recon ☐ Data Collection ☒

| **Weather Conditions:** | **Temperature (°F)** | **Wind (mph):** | **Wind Direction:** |
|---|---|---|---|
| Clear ☐ | Hot >85° ☒ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☒ | Warm > 75° ☐ | 1-5 ☒ | SW ☐ S ☒ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| **Cloud Cover** | Cool > 60° ☐ | 11-25 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 60° ☐ | >26 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☒ | | | |

**Stream Characteristics** Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced ☒

Wind Influence ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 75-100% ☐

**Water Quality Samples Taken:** ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: ____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____

Continuous Monitor Location: ____

Water Quality Field Parameters

**Time:** ____ **Temp.(°C):** ____ **pH:** ____ **Spcond(µhmos/cm):** ____

**D.O.:** ____ **D.O. %:** ____ **Salinity:** ____ **Depth (m):** ____ **Secchi (in):** ____

**Flow Measurement:** ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

**Flow Estimated:** ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft) ____ Time (s): ____

Mid Stream: Distance (ft): ____ Time (s): ____

Left Descending Bank: Distance (ft): ____ Time (s): ____

**Cross Section Measurement** ☒ Measurement Location: 24 Miles east of Bayou Chauvin

Type of Measurement Manual ☐ Fathometer ☒ Cross Section File Name: DC-03

**GPS Measurement:** ☐ GPS SSF File Name: ____

Site GPS ☐ Cross Section GPS: ☐

**Comments:** X-Section

BC03 120507 9/9/03 1325hr

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics Natural Waterbody: ☐ Man Altered Waterbody ☐ Man-Made Waterbody: ☒

Stream: Dry Intermittent ☐

Stream: Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.( °C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.( °C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.( °C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer 11951 Laser Gun 320250105 51

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft = 0.15 m

1.0 ft = 0.30 m

1.5 ft = 0.45 m

2.0 ft = 0.60 m

2.5 ft = 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

*Site Information*

Site #: DC-03 Subsegment: 120507 Date: 9/10/03 Time: 1145 hr

Waterbody: East-West Dredged Canal Tapedown 1: ____ Staff Gauge 1: ____

Gauge Height 1: ____ Tapedown 2: ____ Staff Gauge 2: ____ Gauge Height 2: ____

Site Location: 2.4 Miles east of Bayou Chauvin

Personnel: Lafleur, Dickinson

Type of Work: Recon. ☐ Data Collection ☒

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☒ | Hot > 85° ☒ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm > 75° ☐ | 1-5 ☒ | SW ☐ S ☐ SE ☒ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 50° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☒ | | | |
| 71 – 100% ☐ | | | |

**Stream Characteristics:** Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☒

Wind Influence: ☒ Wind Influence Direction: Upstream ☐ Downstream ☒

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage <1 ☒ 2-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Water Quality Samples Taken:** ☐ **Water Quality Field Parameters:** ☒ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: ____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____

Continuous Monitor Location: ____

Water Quality Field Parameters

Time: 1145 Temp. (°C): 27.50 pH: 7.23 Spcond (mmos/cm): 61.18 IDV - 7.4

D.O.: 3.09 D.O. %: 39.9 Salinity: 3.34 Depth (m): 1.0m Secchi (in): — IBa - 10.9

Flow Measurement: ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

**Flow Estimated:** ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): ____ Time (s): ____

Mid Stream: Distance (ft): ____ Time (s): ____

Left Descending Bank: Distance (ft): ____ Time (s): ____

**Cross Section Measurement:** ☐ Measurement Location: ____

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name: ____

GPS Measurement: ☐ GPS SNF File Name: ____

Site GPS ☐ Cross Section GPS: ☐

Comments: In-situ

DC03 120507 9/10/03 1145 hr

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection: ☐ Collection: ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐ Man-Made Waterbody: ☒
Stream Dry/Intermittent ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt: ☒ Sand/Silt: ☐ Rock/Gravel/Silt: ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒
Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge: ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used:
In Situ Probe S/N: H0008 Surveyor 4a S/N: 51969 GPS Unit _____
AquaCalc S/N _____ Fathometer: _____ Laser Gun _____
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft ≅ 0.15 m
1.0 ft ≅ 0.30 m
1.5 ft ≅ 0.45 m
2.0 ft ≅ 0.60 m
2.5 ft ≅ 0.75 m

Field Site Survey doc
Revision 2.0
Revised 3/15/03

*Site Information*

Site # NC-01 Subsegment: 120507 Date: 9.9.03 Time: 1300hr

Waterbody: New Canal Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: 0.1 Mile below West leg of New Canal Triangle

Personnel: Lafleur, Dicarlo

Type of Work: Recon ☐ Data Collection ☒

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☐ | Hot >85° ☒ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☒ | Warm > 75° ☐ | 1-5 ☒ | SW ☐ S ☒ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 50° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 50° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☒ | | | |

**Stream Characteristics:** Flowing: ☒ Measurable Flow: ☒

Flow Direction Upstream ☒ Downstream ☐ Tidally Influenced: ☒

Wind Influence: ☐ Wind Influence Direction Upstream ☐ Downstream ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒

Emergent/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Water Quality Samples Taken:** ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: _____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): _____

Continuous Monitor Location: _____

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

**Flow Measurement:** ☐ Measurement Location: _____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: _____

**Flow Estimated:** ☐ Measurement Location: _____

Using Discharge Equipment ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): _____ Time (s): _____

Mid Stream: Distance (ft) _____ Time (s): _____

Left Descending Bank: Distance (ft): _____ Time (s): _____

**Cross Section Measurement:** ☒ Measurement Location: 0.1 Mile below West leg of New Canal triangle

Type of Measurement: Manual ☐ Fathometer ☒ Cross Section File Name: NC-01

**GPS Measurement:** ☐ GPS SSF File Name: _____

Site GPS: ☐ Cross Section GPS: ☐

Comments: X-Section

NC-01 120507 9/9/03 1300hr

Photos Taken: ☐ Picture File #: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☒

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch _____

Bridge: ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: 11951 Laser Gun 3200501055 1

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft = 0.15 m

1.0 ft = 0.30 m

1.5 ft = 0.45 m

2.0 ft = 0.60 m

2.5 ft = 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

*Site Information*

Site #: NC-01 Subsegment: 180.507 Date: 9/10/03 Time: 1220 hr

Waterbody: New Canal Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: 0.1 mile below west leg of New Canal triangle

Personnel: Dickinson, Laflaur

Type of Work: Recon ☐ Data Collection ☒

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☒ | Hot >85° ☒ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm > 75° ☐ | 1-5 ☒ | SW ☐ S ☐ SE ☒ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☒ | Variable ☐ |
| 0 – 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☒ | | | |
| 71 – 100% ☐ | | | |

Stream Characteristics: Flowing ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☒

Wind Influence: ☒ Wind Influence Direction: Upstream ☐ Downstream ☒

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒

Floating/Aquatic Vegetation % Surface Coverage: <5 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☒ Profiling: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: 1220 Temp.(°C): 27.68 pH: 7.16 Spcond(µmhos/cm): 13449 IBV-73 IBa-10.9

D.O.: 2.78 D.O. %: 06.5 Salinity: 4.10 Depth (m): 1.0m Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank: Distance (ft): Time (s):

Mid Stream: Distance (ft): Time (s):

Left Descending Bank: Distance (ft): Time (s):

Cross Section Measurement ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer: ☐ Cross Section File Name:

GPS Measurement ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments: In-situ

NC-01 120507 9/10/03 1220hr

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐ Man-Made Waterbody: ☒

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements

| | | | |
|---|---|---|---|
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:

In Situ Probe S/N: 46008 Surveyor 4a S/N: 51969 GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Geo _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft = 0.15 m

1.0 ft = 0.30 m

1.5 ft = 0.45 m

2.0 ft = 0.60 m

2.5 ft = 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3-25-03

*Site Information*

Site #: NC-02 Subsegment: 120507 Date: 9/9/03 Time: 1150hr
Waterbody: New Canal Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: 0.3 Mile from Lake Boudreaux
Personnel: Dickinson, Lafleur
Type of Work: Recon ☐ Data Collection ☒

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☐ | Hot > 85° ☒ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle Light Rain ☒ | Warm > 75° ☐ | 1-5 ☒ | SW ☐ S ☒ SE ☐ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 60° ☐ | >15 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☒ | | | |

Stream Characteristics: Flowing ☒ Measurable Flow: ☐
Flow Direction Upstream ☒ Downstream ☐ Tidally Influenced: ☒
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒
Floating Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐
Continuous Monitor Deployed: ☒ Continuous Monitor SN: 39894
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 1.0m
Continuous Monitor Location: 0.3 mile from Lake Boudreaux

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µhmos/cm):
D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft): Time (s):
Mid Stream: Distance (ft): Time (s):
Left Descending Bank: Distance (ft): Time (s):
Cross Section Measurement: ☒ Measurement Location: 0.3 mile from Lake Boudreaux
Type of Measurement: Manual: ☐ Fathometer: ☒ Cross Section File Name: NC-02
GPS Measurement: ☐ GPS SSS File Name
Site GPS: ☐ Cross Section GPS: ☐
Comments: Continuous Monitor Deployed at 1150hr & X-Section

NC-W 2 120507 9/9/03 HSchW

Photos Taken ☐ Picture File #s _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☒

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ Bridge Height: _____

Profiling Measurements:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |
| Time: | | Temp.(°C): | | pH: | | Spcond(µhmos/cm): | |
| D.O.: | | D.O. %: | | Salinity: | | Depth (m): | |

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: 11951 Laser Gun 3200501055 1

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Sheet Survey doc
Revision 2.0
Revised 3/25/03

Site #: NC-02 Subsegment: 120507 Date: 7/10/03 Time: 1045 AM
Waterbody: New Canal Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: 6.3 miles from Lake Boudreaux
Personnel: Dickinson, Lafleur
Type of Work: Recon ☐ Data Collection ☒

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☒ | Hot > 85° ☒ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm > 75° ☐ | 1-5 ☐ | SW ☐ S ☐ SE ☒ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☐ | E ☐ W ☐ |
| Cloud Cover: | Cool > 50° ☐ | 11-15 ☒ | Variable ☐ |
| 0 - 10% ☐ | Cold < 50° ☐ | >16 ☐ | |
| 11 - 40% ☐ | | | |
| 41 - 70% ☒ | | | |
| 71 - 100% ☐ | | | |

Stream Characteristics. Flowing: ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☒
Wind Influence: ☒ Wind Influence Direction: Upstream ☐ Downstream ☒
Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒
Floating Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ Water Quality Field Parameters: ☒ Profiling: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters IBV- 7.3 IBa- 10

Time: 1245 Temp.(°C): 29.32 pH: 7.60 Spcond(µhmos/cm): 8796
D.O.: 4.74 D.O. %: 63.5 Salinity: 4.90 Depth (m): 1.0m Secchi (in):

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft): Time (s):
Mid Stream: Distance (ft): Time (s):
Left Descending Bank: Distance (ft): Time (s):
Cross Section Measurement: ☐ Measurement Location:
Type of Measurement Manual ☐ Fathometer ☐ Cross Section File Name:
GPS Measurement: ☐ GPS SSF File Name:
Site GPS ☐ Cross Section GPS: ☐
Comments: In-situ and Water Quality Samples Taken

Photo Taken: ☐ Picture File #s: ____

NC02 120507 9-10-03 1245hrs

**Tapedown Established:** ☐ Tapedown Location: ____

Benchmark Established: ☐ Benchmark Location: ____

Survey Equipment Used: ☐

**Time of Travel Measurement:** ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): ____

**Physical Site Characteristics:** Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody: ☒

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: ____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

**Recon Information:**

**Discharge Measurement:** Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: ____

Cross Section Location: ____

Continuous Monitor Deployment: ____

Continuous Monitor Location: ____

**Boat Accessible:** ☐ Nearest Launch: ____

**Bridge** ☐ **Bridge Safe:** ☐ Bridge Width: ____ Bridge Height: ____

**Profiling Measurements:**

| | | | |
|---|---|---|---|
| **Time:** | **Temp.(°C):** | **pH:** | **Spcond(µhmos/cm):** |
| **D.O.:** | **D.O. %:** | **Salinity:** | **Depth (m):** |
| **Time:** | **Temp.(°C):** | **pH:** | **Spcond(µhmos/cm):** |
| **D.O.:** | **D.O. %:** | **Salinity:** | **Depth (m):** |
| **Time:** | **Temp.(°C):** | **pH:** | **Spcond(µhmos/cm):** |
| **D.O.:** | **D.O. %:** | **Salinity:** | **Depth (m):** |

**Equipment Used:**

In Situ Probe S/N: 40008 Surveyor 4a S/N: S19169 GPS Unit: ____

AquaCalc S/N ____ Fathometer: ____ Laser Gun ____

Camera S/N: ____

**References**

**Convert Feet to Meters**

0.5 ft = 0.15 m

1.0 ft = 0.30 m

1.5 ft = 0.45 m

2.0 ft = 0.60 m

2.5 ft = 0.75 m

Field Site Survey doc
Revision 1.0
Revised 5/2/03

*Site Information*

Site #: NC02 Subsegment: ____ Date: 9.11.07 Time: 1130 hrs.
Waterbody: Navy Canal Tapedown 1: ____ Staff Gauge 1: ____
Gauge Height 1: ____ Tapedown 2: ____ Staff Gauge 2: ____ Gauge Height 2: ____
Site Location: 0.3 mi. from Lake Boudreaux
Personnel: Brown, Greenwood
Type of Work: Recon ☐ Data Collection ☐

| Weather Conditions: | Temperature (°F): | Wind (mph): | Wind Direction: |
|---|---|---|---|
| Clear ☑ | Hot >85° ☑ | <1 ☐ | NW ☐ N ☐ NE ☐ |
| Drizzle/Light Rain ☐ | Warm > 75° ☐ | 1-5 ☑ | SW ☐ S ☐ SE ☑ |
| Showers ☐ | Mild > 65° ☐ | 6-10 ☑ | E ☐ W ☐ |
| Cloud Cover | Cool > 60° ☐ | 11-15 ☐ | Variable ☐ |
| 0 – 10% ☐ | Cold < 60° ☐ | >16 ☐ | |
| 11 – 40% ☐ | | | |
| 41 – 70% ☐ | | | |
| 71 – 100% ☑ | | | |

Stream Characteristics: Flowing ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 39894
Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m): ____
Continuous Monitor Location: ____

Water Quality Field Parameters

Time: ____ Temp (°C): ____ pH: ____ Spcond (µmos/cm): ____
D.O.: ____ D.O. %: ____ Salinity: ____ Depth (m): ____ Secchi (in): ____

Flow Measurement: ☐ Measurement Location: ____
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name: ____
Flow Estimated: ☐ Measurement Location: ____
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank: Distance (ft): ____ Time (s): ____
Mid Stream: Distance (ft): ____ Time (s): ____
Left Descending Bank: Distance (ft): ____ Time (s): ____
Cross Section Measurement: ☐ Measurement Location: ____
Type of Measurement Manual: ☐ Fathometer: ☐ Cross Section File Name: ____
GPS Measurement: ☐ GPS SSF File Name: ____
Site GPS: ☐ Cross Section GPS: ☐
Comments: ____

NC00 120507 9/11/03 1130hrs

Photos Taken: ☐ Picture File #s: ____

Tapedown Established: ☐ Tapedown Location: ____

Benchmark Established: ☐ Benchmark Location: ____

Survey Equipment Used: ☐

Time of Travel Measurement ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): ____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐ Man-Made Waterbody ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐ Sand/Silt ☐ Rock/Gravel/Silt ☐

Control Structure Present: ☐ Location: ____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: ____

Cross Section Location: ____

Continuous Monitor Deployment: ____

Continuous Monitor Location: ____

Boat Accessible: ☐ Nearest Launch: ____

Bridge ☐ Bridge Safe: ☐ Bridge Width: ____ Bridge Height: ____

Profiling Measurements:

| | | | |
|---|---|---|---|
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |
| Time: | Temp.(°C): | pH: | Spcond(µhmos/cm): |
| D.O.: | D.O. %: | Salinity: | Depth (m): |

Equipment Used:

In Situ Probe S/N: ____ Surveyor 4a S/N ____ GPS Unit ____

AquaCalc S/N ____ Fathometer ____ Laser Gun ____

Camera S/N: ____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

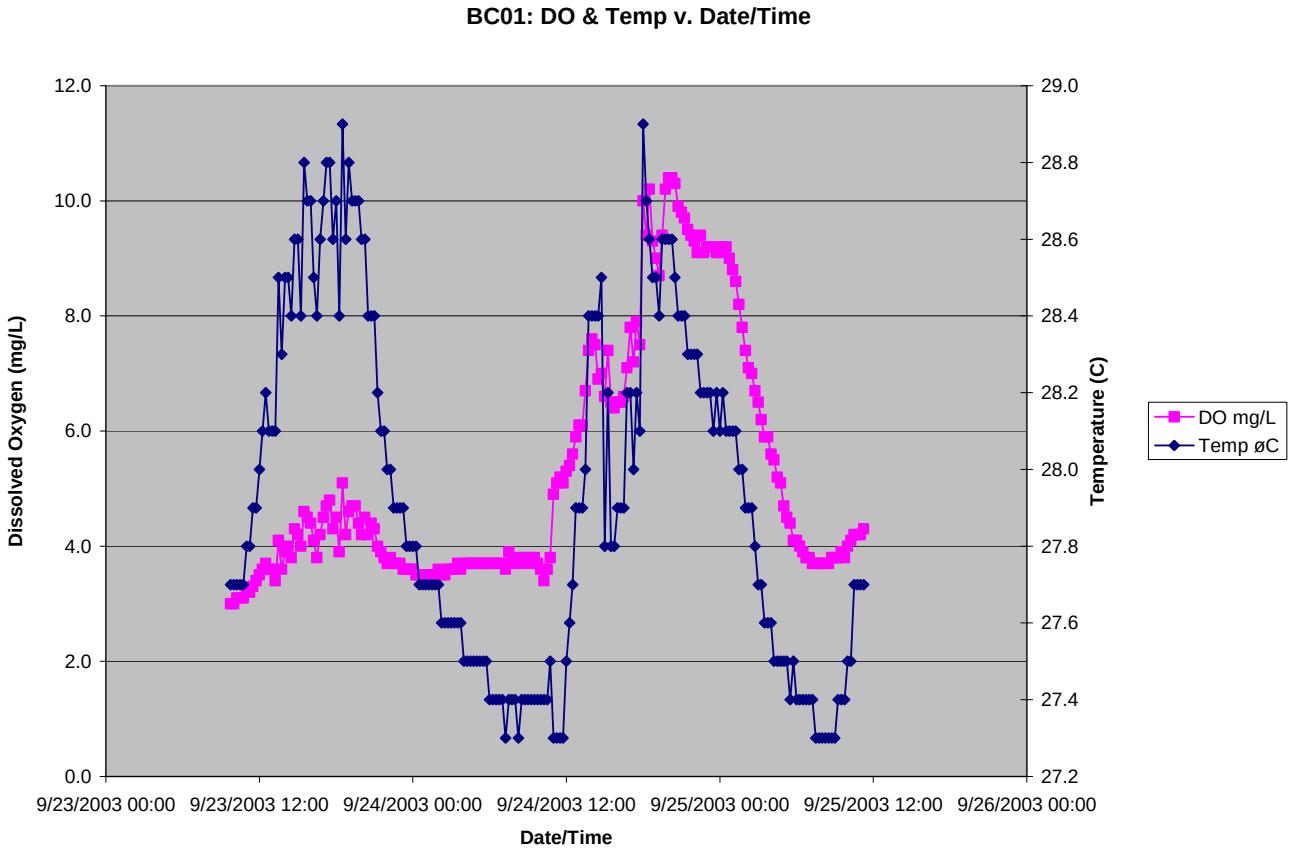
2.5 ft ≅ 0.75 m

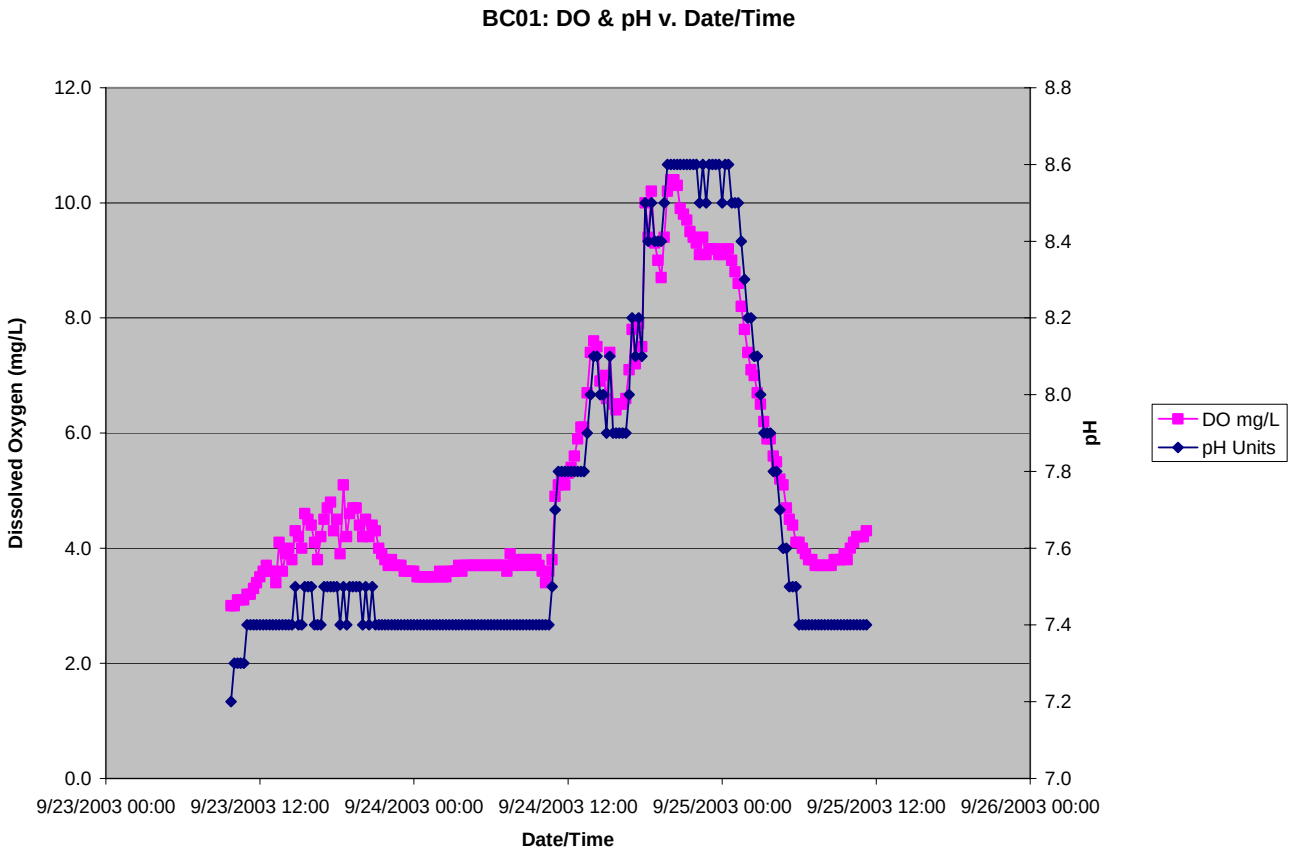
Field Site Survey.doc
Revision 2.0
Revised 5/25/03

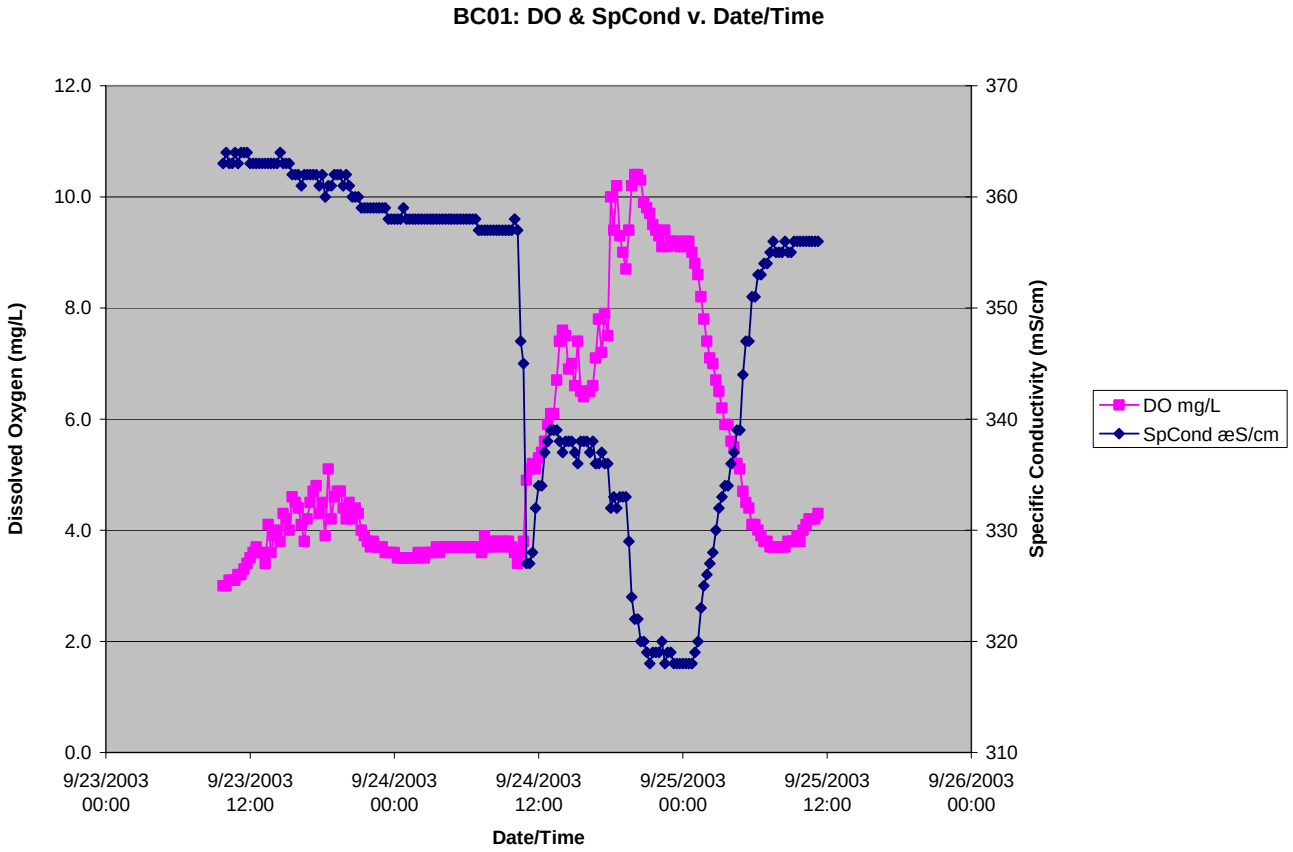
# Appendix F4 – Continuous Monitor

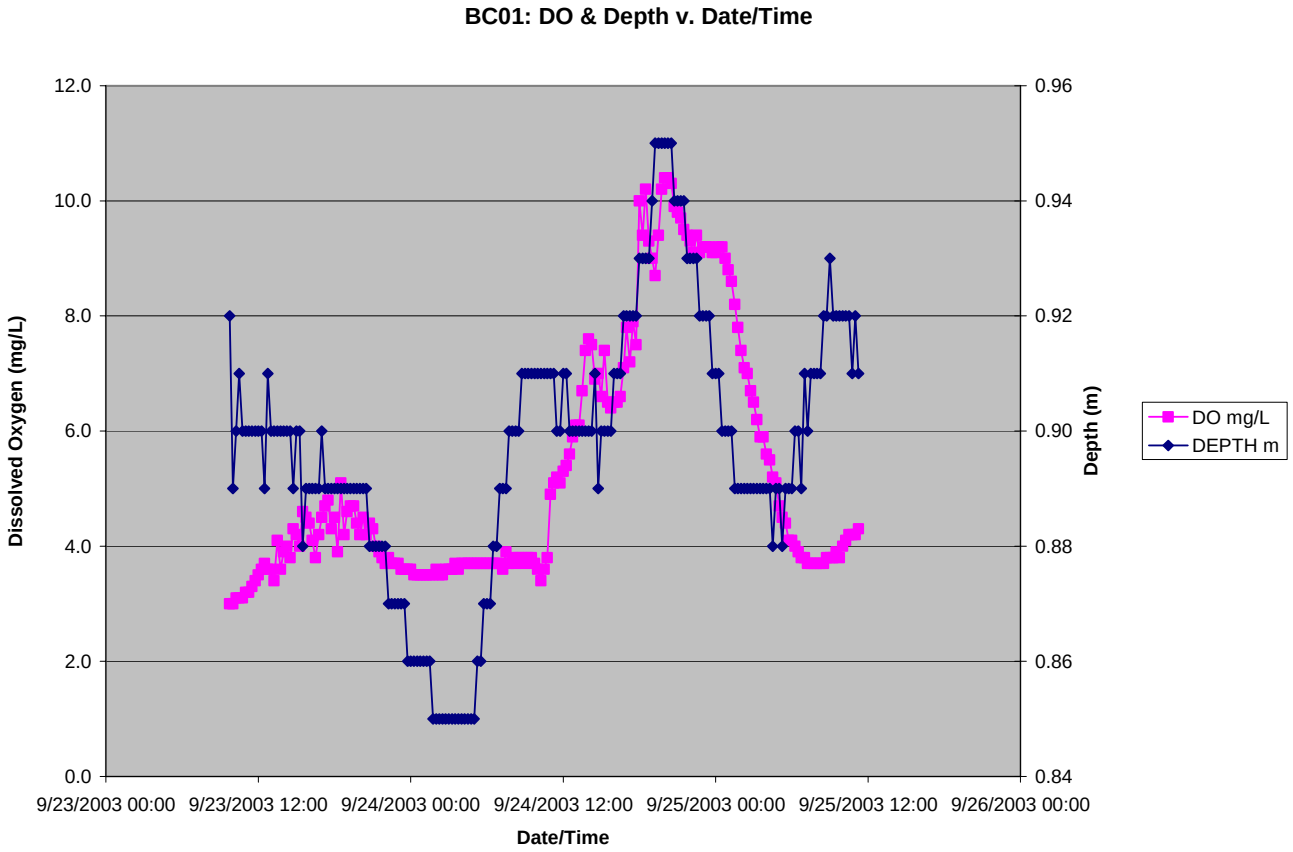
## Bayou Chauvin 120507 - Continuous Monitor Data Summary

| Site | | Temp (C) | pH (units) | SpCond (umhos/cm) | DO % Sat | DO (mg/L) | Salinity (ppt) |
|---|---|---|---|---|---|---|---|
| BC01 | Average | 27.93 | 7.70 | 347.97 | 67.05 | 5.24 | 0.2 |
| | Minimum | 27.30 | 7.20 | 318.00 | 38.50 | 3.00 | 0.2 |
| | Maximum | 28.90 | 8.60 | 364.00 | 134.40 | 10.40 | 0.2 |
| BC02 | Average | 27.12 | 7.18 | 1355.49 | 44.46 | 3.52 | 0.7 |
| | Minimum | 26.53 | 7.13 | 1197.00 | 33.50 | 2.66 | 0.6 |
| | Maximum | 27.55 | 7.26 | 1406.00 | 67.90 | 5.33 | 0.7 |
| BC03 | Average | 27.54 | 6.98 | 2248.48 | 15.63 | 1.23 | 1.2 |
| | Minimum | 26.89 | 6.91 | 1381.00 | 1.60 | 0.13 | 0.7 |
| | Maximum | 28.11 | 7.08 | 3801.00 | 40.40 | 3.18 | 2.1 |
| BC06 | Average | 28.30 | 7.63 | 6250.41 | 51.77 | 3.94 | 3.5 |
| | Minimum | 27.20 | 7.40 | 5223.00 | 24.20 | 1.90 | 2.9 |
| | Maximum | 29.70 | 8.20 | 7576.00 | 112.20 | 8.40 | 4.2 |
| BC07 | Average | 28.36 | 7.56 | 7136.13 | 57.67 | 4.36 | 4.0 |
| | Minimum | 26.86 | 7.34 | 5802.00 | 37.00 | 2.85 | 3.2 |
| | Maximum | 29.88 | 7.94 | 8269.00 | 6.76 | 4.63 | |
| BC09 | Average | 28.83 | 7.78 | 8063.84 | 68.81 | 5.14 | 4.5 |
| | Minimum | 27.70 | 7.35 | 6530.00 | 36.90 | 2.82 | 3.6 |
| | Maximum | 30.24 | 8.17 | 8490.00 | 103.10 | 7.57 | 4.8 |
| DC01 | Average | 28.34 | 7.54 | 4997.99 | 42.28 | 3.23 | 2.7 |
| | Minimum | 27.82 | 7.30 | 4560.00 | 13.70 | 1.05 | 2.5 |
| | Maximum | 29.02 | 7.92 | 5480.00 | 71.30 | 5.41 | 3.0 |
| SL01 | Average | 27.14 | 6.96 | 1201.84 | 18.05 | 1.43 | 0.6 |
| | Minimum | 26.37 | 6.81 | 1076.00 | 7.40 | 0.59 | 0.5 |
| | Maximum | 27.95 | 7.05 | 1388.00 | 27.90 | 2.18 | 0.7 |
| SL02 | Average | 26.38 | 6.41 | 718.96 | 49.19 | 4.02 | 0.4 |
| | Minimum | 49.19 | 4.02 | 400.0 | 7.40 | 0.59 | 0.0 |
| | Maximum | 29.38 | 7.46 | 1388.00 | 99.30 | 8.97 | 0.7 |


BC01: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
12.0
10.0
8.0
6.0
4.0
2.0
0.0
29.0
28.8
28.6
28.4
28.2
28.0
27.8
27.6
27.4
27.2
9/23/2003 00:00
9/23/2003 12:00
9/24/2003 00:00
9/24/2003 12:00
9/25/2003 00:00
9/25/2003 12:00
9/26/2003 00:00
DO mg/L
Temp øC


BC01: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
12.0
10.0
8.0
6.0
4.0
2.0
0.0
pH
8.8
8.6
8.4
8.2
8.0
7.8
7.6
7.4
7.2
7.0
9/23/2003 00:00
9/23/2003 12:00
9/24/2003 00:00
9/24/2003 12:00
9/25/2003 00:00
9/25/2003 12:00
9/26/2003 00:00
Date/Time
DO mg/L
pH Units


BC01: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
12.0
10.0
8.0
6.0
4.0
2.0
0.0
370
360
350
340
330
320
310
9/23/2003 00:00
9/23/2003 12:00
9/24/2003 00:00
9/24/2003 12:00
9/25/2003 00:00
9/25/2003 12:00
9/26/2003 00:00
DO mg/L
SpCond æS/cm


BC01: DO & Depth v. Date/Time
Dissolved Oxygen (mg/L)
Depth (m)
Date/Time
12.0
10.0
8.0
6.0
4.0
2.0
0.0
0.96
0.94
0.92
0.90
0.88
0.86
0.84
9/23/2003 00:00
9/23/2003 12:00
9/24/2003 00:00
9/24/2003 12:00
9/25/2003 00:00
9/25/2003 12:00
9/26/2003 00:00
DO mg/L
DEPTH m

# Bayou Chauvin 120507 Site BC01
# Continuous Monitoring

| Date_ | Time | Date+Time | Temp | pH | SpCond | DEPTH | DO PERCENT | DO | SALINITY |
|---|---|---|---|---|---|---|---|---|---|
| MMDDYY | HHMM | MMDDYYYY HHMM | øC | Units | æS/cm | m | Sat | mg/L | ppt |
| 9/23/2003 | 9:45 | 9/23/2003 09:45 | 27.7 | 7.2 | 363 | 0.92 | 38.6 | 3.0 | 0.2 |
| 9/23/2003 | 10:00 | 9/23/2003 10:00 | 27.7 | 7.3 | 364 | 0.89 | 38.5 | 3.0 | 0.2 |
| 9/23/2003 | 10:15 | 9/23/2003 10:15 | 27.7 | 7.3 | 363 | 0.90 | 38.9 | 3.1 | 0.2 |
| 9/23/2003 | 10:30 | 9/23/2003 10:30 | 27.7 | 7.3 | 363 | 0.91 | 39.5 | 3.1 | 0.2 |
| 9/23/2003 | 10:45 | 9/23/2003 10:45 | 27.7 | 7.3 | 364 | 0.90 | 39.1 | 3.1 | 0.2 |
| 9/23/2003 | 11:00 | 9/23/2003 11:00 | 27.8 | 7.4 | 363 | 0.90 | 41.1 | 3.2 | 0.2 |
| 9/23/2003 | 11:15 | 9/23/2003 11:15 | 27.8 | 7.4 | 364 | 0.90 | 40.7 | 3.2 | 0.2 |
| 9/23/2003 | 11:30 | 9/23/2003 11:30 | 27.9 | 7.4 | 364 | 0.90 | 41.8 | 3.3 | 0.2 |
| 9/23/2003 | 11:45 | 9/23/2003 11:45 | 27.9 | 7.4 | 364 | 0.90 | 43.6 | 3.4 | 0.2 |
| 9/23/2003 | 12:00 | 9/23/2003 12:00 | 28.0 | 7.4 | 363 | 0.90 | 45.2 | 3.5 | 0.2 |
| 9/23/2003 | 12:15 | 9/23/2003 12:15 | 28.1 | 7.4 | 363 | 0.90 | 46.1 | 3.6 | 0.2 |
| 9/23/2003 | 12:30 | 9/23/2003 12:30 | 28.2 | 7.4 | 363 | 0.89 | 47.1 | 3.7 | 0.2 |
| 9/23/2003 | 12:45 | 9/23/2003 12:45 | 28.1 | 7.4 | 363 | 0.91 | 45.9 | 3.6 | 0.2 |
| 9/23/2003 | 13:00 | 9/23/2003 13:00 | 28.1 | 7.4 | 363 | 0.90 | 46.5 | 3.6 | 0.2 |
| 9/23/2003 | 13:15 | 9/23/2003 13:15 | 28.1 | 7.4 | 363 | 0.90 | 43.3 | 3.4 | 0.2 |
| 9/23/2003 | 13:30 | 9/23/2003 13:30 | 28.5 | 7.4 | 363 | 0.90 | 53.4 | 4.1 | 0.2 |
| 9/23/2003 | 13:45 | 9/23/2003 13:45 | 28.3 | 7.4 | 363 | 0.90 | 46.8 | 3.6 | 0.2 |
| 9/23/2003 | 14:00 | 9/23/2003 14:00 | 28.5 | 7.4 | 363 | 0.90 | 50.7 | 3.9 | 0.2 |
| 9/23/2003 | 14:15 | 9/23/2003 14:15 | 28.5 | 7.4 | 363 | 0.90 | 51.9 | 4.0 | 0.2 |
| 9/23/2003 | 14:30 | 9/23/2003 14:30 | 28.4 | 7.4 | 364 | 0.90 | 49.0 | 3.8 | 0.2 |
| 9/23/2003 | 14:45 | 9/23/2003 14:45 | 28.6 | 7.5 | 363 | 0.89 | 55.6 | 4.3 | 0.2 |
| 9/23/2003 | 15:00 | 9/23/2003 15:00 | 28.6 | 7.4 | 363 | 0.90 | 53.9 | 4.2 | 0.2 |
| 9/23/2003 | 15:15 | 9/23/2003 15:15 | 28.4 | 7.4 | 363 | 0.90 | 51.1 | 4.0 | 0.2 |
| 9/23/2003 | 15:30 | 9/23/2003 15:30 | 28.8 | 7.5 | 362 | 0.88 | 59.8 | 4.6 | 0.2 |
| 9/23/2003 | 15:45 | 9/23/2003 15:45 | 28.7 | 7.5 | 362 | 0.89 | 58.3 | 4.5 | 0.2 |
| 9/23/2003 | 16:00 | 9/23/2003 16:00 | 28.7 | 7.5 | 362 | 0.89 | 57.1 | 4.4 | 0.2 |
| 9/23/2003 | 16:15 | 9/23/2003 16:15 | 28.5 | 7.4 | 361 | 0.89 | 52.8 | 4.1 | 0.2 |
| 9/23/2003 | 16:30 | 9/23/2003 16:30 | 28.4 | 7.4 | 362 | 0.89 | 49.1 | 3.8 | 0.2 |
| 9/23/2003 | 16:45 | 9/23/2003 16:45 | 28.6 | 7.4 | 362 | 0.89 | 53.9 | 4.2 | 0.2 |
| 9/23/2003 | 17:00 | 9/23/2003 17:00 | 28.7 | 7.5 | 362 | 0.90 | 58.6 | 4.5 | 0.2 |
| 9/23/2003 | 17:15 | 9/23/2003 17:15 | 28.8 | 7.5 | 362 | 0.89 | 60.8 | 4.7 | 0.2 |
| 9/23/2003 | 17:30 | 9/23/2003 17:30 | 28.8 | 7.5 | 362 | 0.89 | 61.9 | 4.8 | 0.2 |
| 9/23/2003 | 17:45 | 9/23/2003 17:45 | 28.6 | 7.5 | 361 | 0.89 | 55.5 | 4.3 | 0.2 |
| 9/23/2003 | 18:00 | 9/23/2003 18:00 | 28.7 | 7.5 | 362 | 0.89 | 58.4 | 4.5 | 0.2 |
| 9/23/2003 | 18:15 | 9/23/2003 18:15 | 28.4 | 7.4 | 360 | 0.89 | 50.7 | 3.9 | 0.2 |
| 9/23/2003 | 18:30 | 9/23/2003 18:30 | 28.9 | 7.5 | 361 | 0.89 | 66.5 | 5.1 | 0.2 |
| 9/23/2003 | 18:45 | 9/23/2003 18:45 | 28.6 | 7.4 | 361 | 0.89 | 53.8 | 4.2 | 0.2 |
| 9/23/2003 | 19:00 | 9/23/2003 19:00 | 28.8 | 7.5 | 362 | 0.89 | 60.2 | 4.6 | 0.2 |
| 9/23/2003 | 19:15 | 9/23/2003 19:15 | 28.7 | 7.5 | 362 | 0.89 | 60.4 | 4.7 | 0.2 |
| 9/23/2003 | 19:30 | 9/23/2003 19:30 | 28.7 | 7.5 | 362 | 0.89 | 61.2 | 4.7 | 0.2 |
| 9/23/2003 | 19:45 | 9/23/2003 19:45 | 28.7 | 7.5 | 361 | 0.89 | 56.9 | 4.4 | 0.2 |
| 9/23/2003 | 20:00 | 9/23/2003 20:00 | 28.6 | 7.4 | 362 | 0.89 | 54.4 | 4.2 | 0.2 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9/23/2003 | 20:15 | 9/23/2003 20:15 | 28.6 | 7.5 | 361 | 0.89 | 58.0 | 4.5 | 0.2 |
| 9/23/2003 | 20:30 | 9/23/2003 20:30 | 28.4 | 7.4 | 360 | 0.89 | 53.9 | 4.2 | 0.2 |
| 9/23/2003 | 20:45 | 9/23/2003 20:45 | 28.4 | 7.5 | 360 | 0.88 | 56.2 | 4.4 | 0.2 |
| 9/23/2003 | 21:00 | 9/23/2003 21:00 | 28.4 | 7.4 | 360 | 0.88 | 55.1 | 4.3 | 0.2 |
| 9/23/2003 | 21:15 | 9/23/2003 21:15 | 28.2 | 7.4 | 359 | 0.88 | 51.6 | 4.0 | 0.2 |
| 9/23/2003 | 21:30 | 9/23/2003 21:30 | 28.1 | 7.4 | 359 | 0.88 | 50.5 | 3.9 | 0.2 |
| 9/23/2003 | 21:45 | 9/23/2003 21:45 | 28.1 | 7.4 | 359 | 0.88 | 49.1 | 3.8 | 0.2 |
| 9/23/2003 | 22:00 | 9/23/2003 22:00 | 28.0 | 7.4 | 359 | 0.88 | 47.8 | 3.7 | 0.2 |
| 9/23/2003 | 22:15 | 9/23/2003 22:15 | 28.0 | 7.4 | 359 | 0.87 | 47.9 | 3.8 | 0.2 |
| 9/23/2003 | 22:30 | 9/23/2003 22:30 | 27.9 | 7.4 | 359 | 0.87 | 47.2 | 3.7 | 0.2 |
| 9/23/2003 | 22:45 | 9/23/2003 22:45 | 27.9 | 7.4 | 359 | 0.87 | 46.8 | 3.7 | 0.2 |
| 9/23/2003 | 23:00 | 9/23/2003 23:00 | 27.9 | 7.4 | 359 | 0.87 | 46.6 | 3.7 | 0.2 |
| 9/23/2003 | 23:15 | 9/23/2003 23:15 | 27.9 | 7.4 | 359 | 0.87 | 46.4 | 3.6 | 0.2 |
| 9/23/2003 | 23:30 | 9/23/2003 23:30 | 27.8 | 7.4 | 358 | 0.87 | 46.4 | 3.6 | 0.2 |
| 9/23/2003 | 23:45 | 9/23/2003 23:45 | 27.8 | 7.4 | 358 | 0.86 | 45.8 | 3.6 | 0.2 |
| 9/24/2003 | 0:00 | 9/24/2003 00:00 | 27.8 | 7.4 | 358 | 0.86 | 45.4 | 3.6 | 0.2 |
| 9/24/2003 | 0:15 | 9/24/2003 00:15 | 27.8 | 7.4 | 358 | 0.86 | 45.1 | 3.5 | 0.2 |
| 9/24/2003 | 0:30 | 9/24/2003 00:30 | 27.7 | 7.4 | 358 | 0.86 | 44.9 | 3.5 | 0.2 |
| 9/24/2003 | 0:45 | 9/24/2003 00:45 | 27.7 | 7.4 | 359 | 0.86 | 44.6 | 3.5 | 0.2 |
| 9/24/2003 | 1:00 | 9/24/2003 01:00 | 27.7 | 7.4 | 358 | 0.86 | 44.6 | 3.5 | 0.2 |
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| 9/24/2003 | 1:30 | 9/24/2003 01:30 | 27.7 | 7.4 | 358 | 0.86 | 43.8 | 3.5 | 0.2 |
| 9/24/2003 | 1:45 | 9/24/2003 01:45 | 27.7 | 7.4 | 358 | 0.85 | 44.4 | 3.5 | 0.2 |
| 9/24/2003 | 2:00 | 9/24/2003 02:00 | 27.7 | 7.4 | 358 | 0.85 | 45.4 | 3.6 | 0.2 |
| 9/24/2003 | 2:15 | 9/24/2003 02:15 | 27.6 | 7.4 | 358 | 0.85 | 44.4 | 3.5 | 0.2 |
| 9/24/2003 | 2:30 | 9/24/2003 02:30 | 27.6 | 7.4 | 358 | 0.85 | 44.9 | 3.5 | 0.2 |
| 9/24/2003 | 2:45 | 9/24/2003 02:45 | 27.6 | 7.4 | 358 | 0.85 | 45.6 | 3.6 | 0.2 |
| 9/24/2003 | 3:00 | 9/24/2003 03:00 | 27.6 | 7.4 | 358 | 0.85 | 45.5 | 3.6 | 0.2 |
| 9/24/2003 | 3:15 | 9/24/2003 03:15 | 27.6 | 7.4 | 358 | 0.85 | 46.0 | 3.6 | 0.2 |
| 9/24/2003 | 3:30 | 9/24/2003 03:30 | 27.6 | 7.4 | 358 | 0.85 | 46.5 | 3.7 | 0.2 |
| 9/24/2003 | 3:45 | 9/24/2003 03:45 | 27.6 | 7.4 | 358 | 0.85 | 46.1 | 3.6 | 0.2 |
| 9/24/2003 | 4:00 | 9/24/2003 04:00 | 27.5 | 7.4 | 358 | 0.85 | 46.4 | 3.7 | 0.2 |
| 9/24/2003 | 4:15 | 9/24/2003 04:15 | 27.5 | 7.4 | 358 | 0.85 | 46.9 | 3.7 | 0.2 |
| 9/24/2003 | 4:30 | 9/24/2003 04:30 | 27.5 | 7.4 | 358 | 0.85 | 47.1 | 3.7 | 0.2 |
| 9/24/2003 | 4:45 | 9/24/2003 04:45 | 27.5 | 7.4 | 358 | 0.85 | 46.9 | 3.7 | 0.2 |
| 9/24/2003 | 5:00 | 9/24/2003 05:00 | 27.5 | 7.4 | 358 | 0.85 | 46.7 | 3.7 | 0.2 |
| 9/24/2003 | 5:15 | 9/24/2003 05:15 | 27.5 | 7.4 | 358 | 0.86 | 47.1 | 3.7 | 0.2 |
| 9/24/2003 | 5:30 | 9/24/2003 05:30 | 27.5 | 7.4 | 358 | 0.86 | 46.9 | 3.7 | 0.2 |
| 9/24/2003 | 5:45 | 9/24/2003 05:45 | 27.5 | 7.4 | 358 | 0.87 | 47.0 | 3.7 | 0.2 |
| 9/24/2003 | 6:00 | 9/24/2003 06:00 | 27.4 | 7.4 | 358 | 0.87 | 47.0 | 3.7 | 0.2 |
| 9/24/2003 | 6:15 | 9/24/2003 06:15 | 27.4 | 7.4 | 358 | 0.87 | 47.2 | 3.7 | 0.2 |
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| 9/24/2003 | 6:45 | 9/24/2003 06:45 | 27.4 | 7.4 | 358 | 0.88 | 47.1 | 3.7 | 0.2 |
| 9/24/2003 | 7:00 | 9/24/2003 07:00 | 27.4 | 7.4 | 357 | 0.89 | 47.3 | 3.7 | 0.2 |
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| 9/24/2003 | 7:45 | 9/24/2003 07:45 | 27.4 | 7.4 | 357 | 0.90 | 47.4 | 3.7 | 0.2 |
| 9/24/2003 | 8:00 | 9/24/2003 08:00 | 27.4 | 7.4 | 357 | 0.90 | 47.7 | 3.8 | 0.2 |
| 9/24/2003 | 8:15 | 9/24/2003 08:15 | 27.3 | 7.4 | 357 | 0.90 | 47.1 | 3.7 | 0.2 |
| 9/24/2003 | 8:30 | 9/24/2003 08:30 | 27.4 | 7.4 | 357 | 0.90 | 47.8 | 3.8 | 0.2 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9/24/2003 | 8:45 | 9/24/2003 08:45 | 27.4 | 7.4 | 357 | 0.91 | 47.6 | 3.8 | 0.2 |
| 9/24/2003 | 9:00 | 9/24/2003 09:00 | 27.4 | 7.4 | 357 | 0.91 | 47.0 | 3.7 | 0.2 |
| 9/24/2003 | 9:15 | 9/24/2003 09:15 | 27.4 | 7.4 | 357 | 0.91 | 47.6 | 3.8 | 0.2 |
| 9/24/2003 | 9:30 | 9/24/2003 09:30 | 27.4 | 7.4 | 357 | 0.91 | 47.8 | 3.8 | 0.2 |
| 9/24/2003 | 9:45 | 9/24/2003 09:45 | 27.4 | 7.4 | 357 | 0.91 | 46.2 | 3.7 | 0.2 |
| 9/24/2003 | 10:00 | 9/24/2003 10:00 | 27.4 | 7.4 | 358 | 0.91 | 45.8 | 3.6 | 0.2 |
| 9/24/2003 | 10:15 | 9/24/2003 10:15 | 27.4 | 7.4 | 357 | 0.91 | 42.7 | 3.4 | 0.2 |
| 9/24/2003 | 10:30 | 9/24/2003 10:30 | 27.4 | 7.4 | 347 | 0.91 | 45.8 | 3.6 | 0.2 |
| 9/24/2003 | 10:45 | 9/24/2003 10:45 | 27.5 | 7.5 | 345 | 0.91 | 48.6 | 3.8 | 0.2 |
| 9/24/2003 | 11:00 | 9/24/2003 11:00 | 27.3 | 7.7 | 327 | 0.91 | 61.3 | 4.9 | 0.2 |
| 9/24/2003 | 11:15 | 9/24/2003 11:15 | 27.3 | 7.8 | 327 | 0.91 | 64.6 | 5.1 | 0.2 |
| 9/24/2003 | 11:30 | 9/24/2003 11:30 | 27.3 | 7.8 | 328 | 0.90 | 65.7 | 5.2 | 0.2 |
| 9/24/2003 | 11:45 | 9/24/2003 11:45 | 27.3 | 7.8 | 332 | 0.90 | 64.3 | 5.1 | 0.2 |
| 9/24/2003 | 12:00 | 9/24/2003 12:00 | 27.5 | 7.8 | 334 | 0.91 | 67.3 | 5.3 | 0.2 |
| 9/24/2003 | 12:15 | 9/24/2003 12:15 | 27.6 | 7.8 | 334 | 0.91 | 68.6 | 5.4 | 0.2 |
| 9/24/2003 | 12:30 | 9/24/2003 12:30 | 27.7 | 7.8 | 337 | 0.90 | 70.9 | 5.6 | 0.2 |
| 9/24/2003 | 12:45 | 9/24/2003 12:45 | 27.9 | 7.8 | 338 | 0.90 | 74.6 | 5.9 | 0.2 |
| 9/24/2003 | 13:00 | 9/24/2003 13:00 | 27.9 | 7.8 | 339 | 0.90 | 78.3 | 6.1 | 0.2 |
| 9/24/2003 | 13:15 | 9/24/2003 13:15 | 27.9 | 7.8 | 339 | 0.90 | 78.4 | 6.1 | 0.2 |
| 9/24/2003 | 13:30 | 9/24/2003 13:30 | 28.0 | 7.9 | 339 | 0.90 | 85.5 | 6.7 | 0.2 |
| 9/24/2003 | 13:45 | 9/24/2003 13:45 | 28.4 | 8.0 | 338 | 0.90 | 95.2 | 7.4 | 0.2 |
| 9/24/2003 | 14:00 | 9/24/2003 14:00 | 28.4 | 8.1 | 337 | 0.90 | 97.4 | 7.6 | 0.2 |
| 9/24/2003 | 14:15 | 9/24/2003 14:15 | 28.4 | 8.1 | 338 | 0.90 | 96.0 | 7.5 | 0.2 |
| 9/24/2003 | 14:30 | 9/24/2003 14:30 | 28.4 | 8.0 | 338 | 0.91 | 88.7 | 6.9 | 0.2 |
| 9/24/2003 | 14:45 | 9/24/2003 14:45 | 28.5 | 8.0 | 338 | 0.89 | 90.3 | 7.0 | 0.2 |
| 9/24/2003 | 15:00 | 9/24/2003 15:00 | 27.8 | 7.9 | 337 | 0.90 | 84.1 | 6.6 | 0.2 |
| 9/24/2003 | 15:15 | 9/24/2003 15:15 | 28.2 | 8.1 | 336 | 0.90 | 94.4 | 7.4 | 0.2 |
| 9/24/2003 | 15:30 | 9/24/2003 15:30 | 27.8 | 7.9 | 338 | 0.90 | 82.9 | 6.5 | 0.2 |
| 9/24/2003 | 15:45 | 9/24/2003 15:45 | 27.8 | 7.9 | 338 | 0.90 | 81.9 | 6.4 | 0.2 |
| 9/24/2003 | 16:00 | 9/24/2003 16:00 | 27.9 | 7.9 | 338 | 0.91 | 83.2 | 6.5 | 0.2 |
| 9/24/2003 | 16:15 | 9/24/2003 16:15 | 27.9 | 7.9 | 337 | 0.91 | 83.3 | 6.5 | 0.2 |
| 9/24/2003 | 16:30 | 9/24/2003 16:30 | 27.9 | 7.9 | 338 | 0.91 | 84.6 | 6.6 | 0.2 |
| 9/24/2003 | 16:45 | 9/24/2003 16:45 | 28.2 | 8.0 | 336 | 0.92 | 90.9 | 7.1 | 0.2 |
| 9/24/2003 | 17:00 | 9/24/2003 17:00 | 28.2 | 8.2 | 336 | 0.92 | 100.5 | 7.8 | 0.2 |
| 9/24/2003 | 17:15 | 9/24/2003 17:15 | 28.0 | 8.1 | 337 | 0.92 | 92.0 | 7.2 | 0.2 |
| 9/24/2003 | 17:30 | 9/24/2003 17:30 | 28.2 | 8.2 | 336 | 0.92 | 100.8 | 7.9 | 0.2 |
| 9/24/2003 | 17:45 | 9/24/2003 17:45 | 28.1 | 8.1 | 336 | 0.92 | 95.7 | 7.5 | 0.2 |
| 9/24/2003 | 18:00 | 9/24/2003 18:00 | 28.9 | 8.5 | 332 | 0.93 | 129.2 | 10.0 | 0.2 |
| 9/24/2003 | 18:15 | 9/24/2003 18:15 | 28.7 | 8.4 | 333 | 0.93 | 121.5 | 9.4 | 0.2 |
| 9/24/2003 | 18:30 | 9/24/2003 18:30 | 28.6 | 8.5 | 332 | 0.93 | 131.4 | 10.2 | 0.2 |
| 9/24/2003 | 18:45 | 9/24/2003 18:45 | 28.5 | 8.4 | 333 | 0.93 | 120.4 | 9.3 | 0.2 |
| 9/24/2003 | 19:00 | 9/24/2003 19:00 | 28.5 | 8.4 | 333 | 0.94 | 116.1 | 9.0 | 0.2 |
| 9/24/2003 | 19:15 | 9/24/2003 19:15 | 28.4 | 8.4 | 333 | 0.95 | 112.7 | 8.7 | 0.2 |
| 9/24/2003 | 19:30 | 9/24/2003 19:30 | 28.6 | 8.5 | 329 | 0.95 | 121.0 | 9.4 | 0.2 |
| 9/24/2003 | 19:45 | 9/24/2003 19:45 | 28.6 | 8.6 | 324 | 0.95 | 131.7 | 10.2 | 0.2 |
| 9/24/2003 | 20:00 | 9/24/2003 20:00 | 28.6 | 8.6 | 322 | 0.95 | 134.4 | 10.4 | 0.2 |
| 9/24/2003 | 20:15 | 9/24/2003 20:15 | 28.6 | 8.6 | 322 | 0.95 | 134.1 | 10.4 | 0.2 |
| 9/24/2003 | 20:30 | 9/24/2003 20:30 | 28.5 | 8.6 | 320 | 0.95 | 132.2 | 10.3 | 0.2 |
| 9/24/2003 | 20:45 | 9/24/2003 20:45 | 28.4 | 8.6 | 320 | 0.94 | 127.8 | 9.9 | 0.2 |
| 9/24/2003 | 21:00 | 9/24/2003 21:00 | 28.4 | 8.6 | 319 | 0.94 | 126.0 | 9.8 | 0.2 |

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|---|---|---|---|---|---|---|---|---|---|
| 9/24/2003 | 21:15 | 9/24/2003 21:15 | 28.4 | 8.6 | 318 | 0.94 | 124.3 | 9.7 | 0.2 |
| 9/24/2003 | 21:30 | 9/24/2003 21:30 | 28.3 | 8.6 | 319 | 0.94 | 122.1 | 9.5 | 0.2 |
| 9/24/2003 | 21:45 | 9/24/2003 21:45 | 28.3 | 8.6 | 319 | 0.93 | 121.0 | 9.4 | 0.2 |
| 9/24/2003 | 22:00 | 9/24/2003 22:00 | 28.3 | 8.6 | 319 | 0.93 | 119.9 | 9.3 | 0.2 |
| 9/24/2003 | 22:15 | 9/24/2003 22:15 | 28.3 | 8.5 | 320 | 0.93 | 116.9 | 9.1 | 0.2 |
| 9/24/2003 | 22:30 | 9/24/2003 22:30 | 28.2 | 8.6 | 318 | 0.93 | 120.5 | 9.4 | 0.2 |
| 9/24/2003 | 22:45 | 9/24/2003 22:45 | 28.2 | 8.5 | 319 | 0.92 | 117.1 | 9.1 | 0.2 |
| 9/24/2003 | 23:00 | 9/24/2003 23:00 | 28.2 | 8.6 | 319 | 0.92 | 117.6 | 9.2 | 0.2 |
| 9/24/2003 | 23:15 | 9/24/2003 23:15 | 28.2 | 8.6 | 318 | 0.92 | 117.4 | 9.2 | 0.2 |
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| 9/24/2003 | 23:45 | 9/24/2003 23:45 | 28.2 | 8.6 | 318 | 0.91 | 117.3 | 9.1 | 0.2 |
| 9/25/2003 | 0:00 | 9/25/2003 00:00 | 28.1 | 8.5 | 318 | 0.91 | 117.2 | 9.1 | 0.2 |
| 9/25/2003 | 0:15 | 9/25/2003 00:15 | 28.2 | 8.6 | 318 | 0.91 | 117.8 | 9.2 | 0.2 |
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| 9/25/2003 | 1:00 | 9/25/2003 01:00 | 28.1 | 8.5 | 319 | 0.90 | 112.9 | 8.8 | 0.2 |
| 9/25/2003 | 1:15 | 9/25/2003 01:15 | 28.1 | 8.5 | 320 | 0.90 | 110.1 | 8.6 | 0.2 |
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| 9/25/2003 | 2:45 | 9/25/2003 02:45 | 27.8 | 8.1 | 330 | 0.89 | 85.8 | 6.7 | 0.2 |
| 9/25/2003 | 3:00 | 9/25/2003 03:00 | 27.7 | 8.0 | 332 | 0.89 | 82.3 | 6.5 | 0.2 |
| 9/25/2003 | 3:15 | 9/25/2003 03:15 | 27.7 | 7.9 | 333 | 0.89 | 78.5 | 6.2 | 0.2 |
| 9/25/2003 | 3:30 | 9/25/2003 03:30 | 27.6 | 7.9 | 334 | 0.89 | 75.6 | 5.9 | 0.2 |
| 9/25/2003 | 3:45 | 9/25/2003 03:45 | 27.6 | 7.9 | 334 | 0.89 | 74.6 | 5.9 | 0.2 |
| 9/25/2003 | 4:00 | 9/25/2003 04:00 | 27.6 | 7.8 | 336 | 0.89 | 70.9 | 5.6 | 0.2 |
| 9/25/2003 | 4:15 | 9/25/2003 04:15 | 27.5 | 7.8 | 337 | 0.89 | 69.8 | 5.5 | 0.2 |
| 9/25/2003 | 4:30 | 9/25/2003 04:30 | 27.5 | 7.7 | 339 | 0.88 | 65.7 | 5.2 | 0.2 |
| 9/25/2003 | 4:45 | 9/25/2003 04:45 | 27.5 | 7.6 | 339 | 0.89 | 64.5 | 5.1 | 0.2 |
| 9/25/2003 | 5:00 | 9/25/2003 05:00 | 27.5 | 7.6 | 344 | 0.89 | 59.5 | 4.7 | 0.2 |
| 9/25/2003 | 5:15 | 9/25/2003 05:15 | 27.5 | 7.5 | 347 | 0.88 | 56.7 | 4.5 | 0.2 |
| 9/25/2003 | 5:30 | 9/25/2003 05:30 | 27.4 | 7.5 | 347 | 0.89 | 55.4 | 4.4 | 0.2 |
| 9/25/2003 | 5:45 | 9/25/2003 05:45 | 27.5 | 7.5 | 351 | 0.89 | 52.3 | 4.1 | 0.2 |
| 9/25/2003 | 6:00 | 9/25/2003 06:00 | 27.4 | 7.4 | 351 | 0.89 | 51.3 | 4.1 | 0.2 |
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| 9/25/2003 | 6:30 | 9/25/2003 06:30 | 27.4 | 7.4 | 353 | 0.90 | 49.1 | 3.9 | 0.2 |
| 9/25/2003 | 6:45 | 9/25/2003 06:45 | 27.4 | 7.4 | 354 | 0.89 | 48.1 | 3.8 | 0.2 |
| 9/25/2003 | 7:00 | 9/25/2003 07:00 | 27.4 | 7.4 | 354 | 0.91 | 47.7 | 3.8 | 0.2 |
| 9/25/2003 | 7:15 | 9/25/2003 07:15 | 27.4 | 7.4 | 355 | 0.90 | 47.1 | 3.7 | 0.2 |
| 9/25/2003 | 7:30 | 9/25/2003 07:30 | 27.3 | 7.4 | 356 | 0.91 | 46.8 | 3.7 | 0.2 |
| 9/25/2003 | 7:45 | 9/25/2003 07:45 | 27.3 | 7.4 | 355 | 0.91 | 46.6 | 3.7 | 0.2 |
| 9/25/2003 | 8:00 | 9/25/2003 08:00 | 27.3 | 7.4 | 355 | 0.91 | 46.2 | 3.7 | 0.2 |
| 9/25/2003 | 8:15 | 9/25/2003 08:15 | 27.3 | 7.4 | 355 | 0.91 | 46.3 | 3.7 | 0.2 |
| 9/25/2003 | 8:30 | 9/25/2003 08:30 | 27.3 | 7.4 | 356 | 0.92 | 46.5 | 3.7 | 0.2 |
| 9/25/2003 | 8:45 | 9/25/2003 08:45 | 27.3 | 7.4 | 355 | 0.92 | 47.4 | 3.8 | 0.2 |
| 9/25/2003 | 9:00 | 9/25/2003 09:00 | 27.3 | 7.4 | 355 | 0.93 | 48.3 | 3.8 | 0.2 |
| 9/25/2003 | 9:15 | 9/25/2003 09:15 | 27.4 | 7.4 | 356 | 0.92 | 47.9 | 3.8 | 0.2 |
| 9/25/2003 | 9:30 | 9/25/2003 09:30 | 27.4 | 7.4 | 356 | 0.92 | 49.4 | 3.9 | 0.2 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9/25/2003 | 9:45 | 9/25/2003 09:45 | 27.4 | 7.4 | 356 | 0.92 | 48.2 | 3.8 | 0.2 |
| 9/25/2003 | 10:00 | 9/25/2003 10:00 | 27.5 | 7.4 | 356 | 0.92 | 50.3 | 4.0 | 0.2 |
| 9/25/2003 | 10:15 | 9/25/2003 10:15 | 27.5 | 7.4 | 356 | 0.92 | 51.8 | 4.1 | 0.2 |
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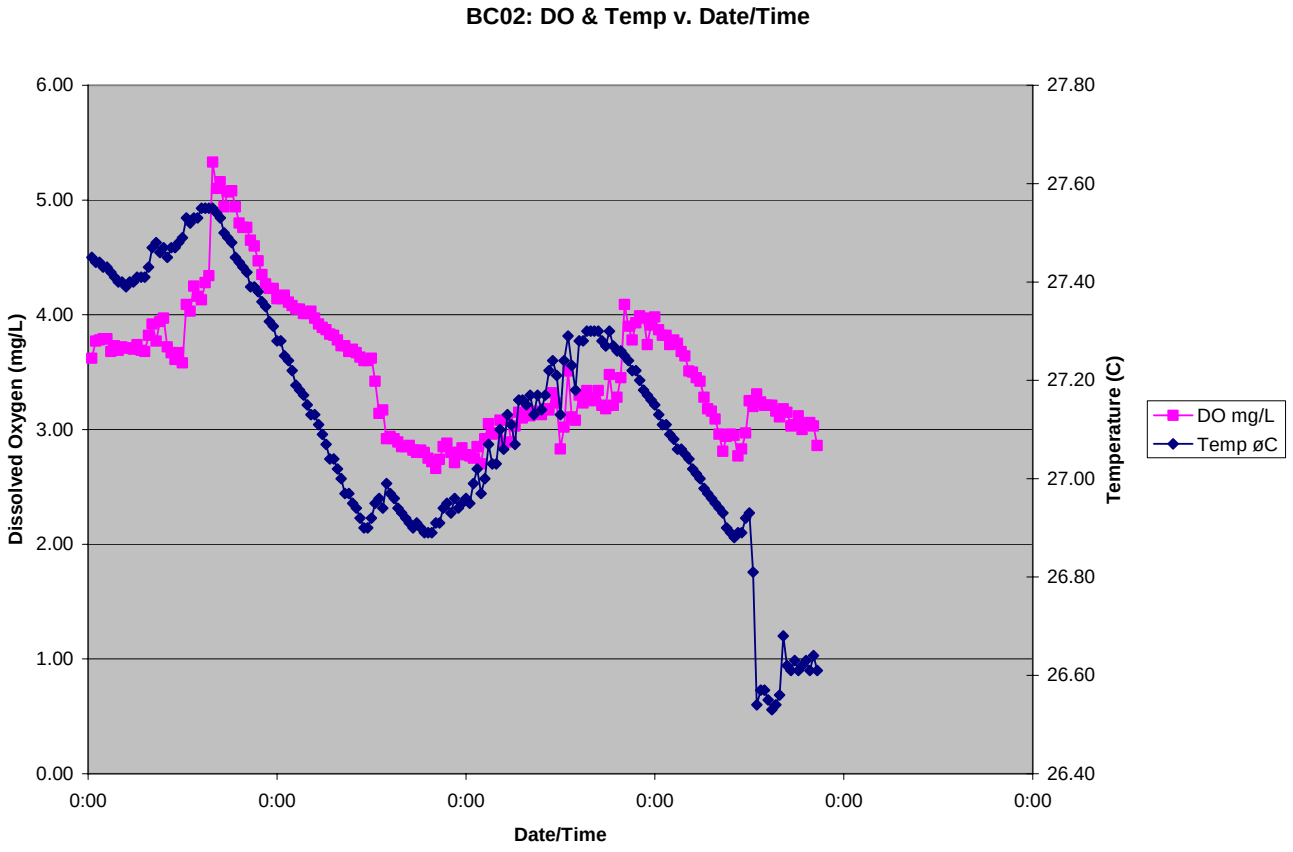
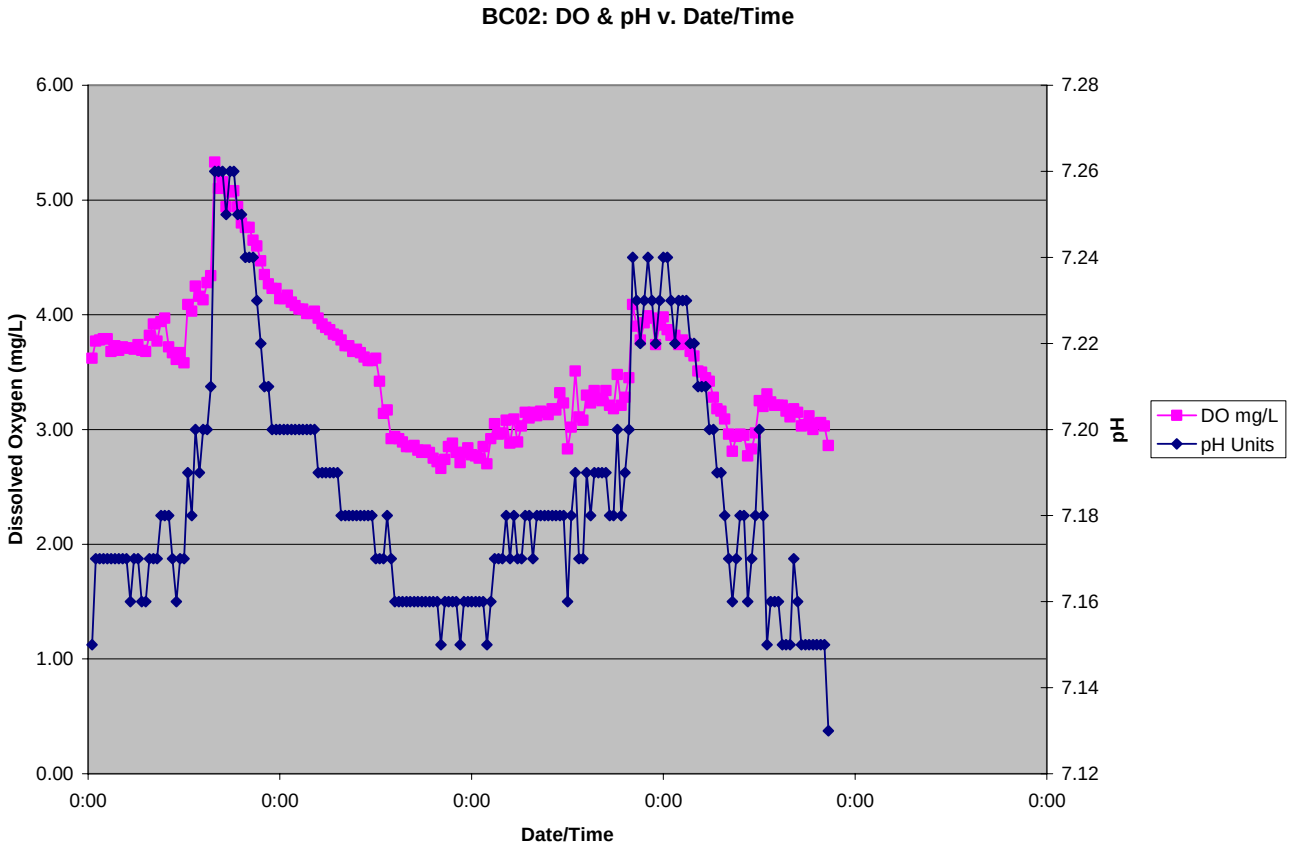
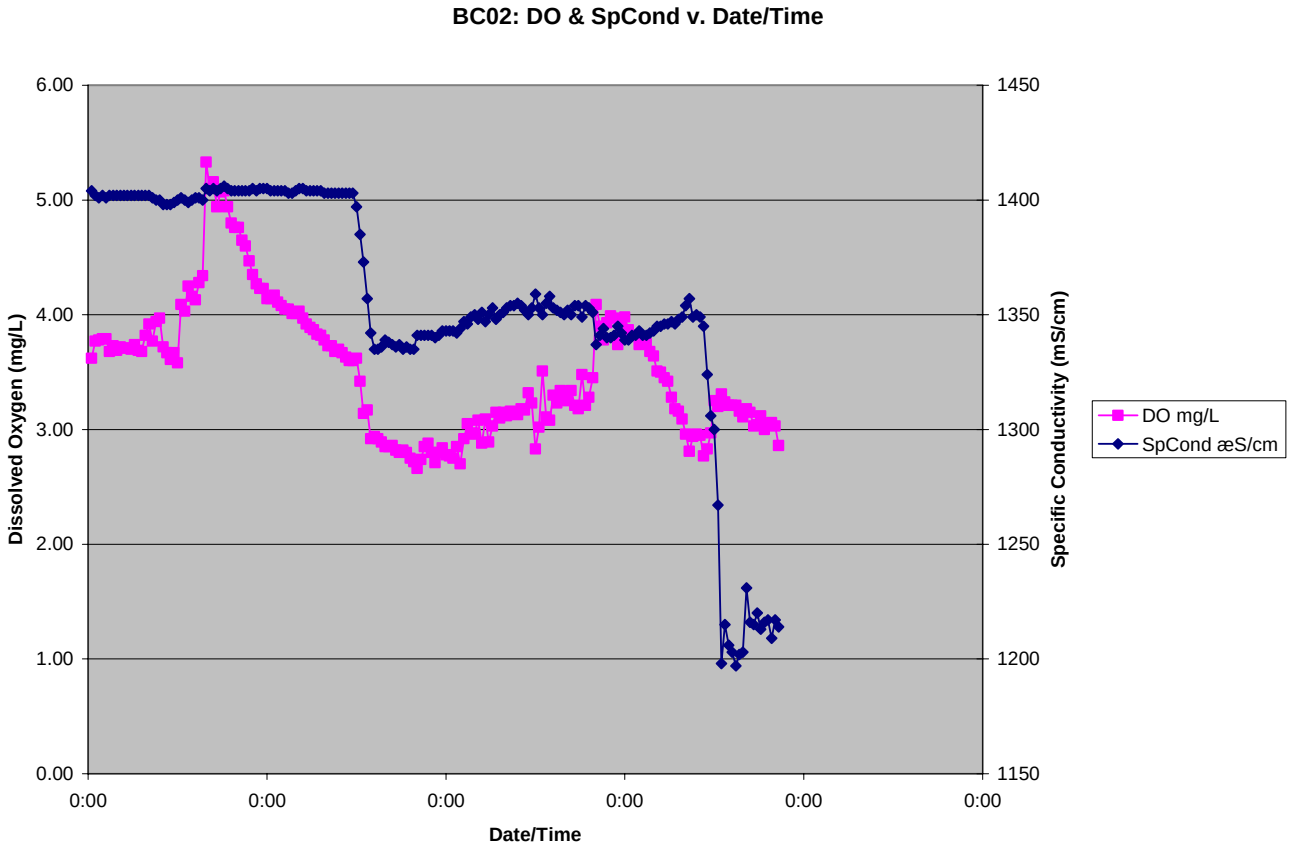
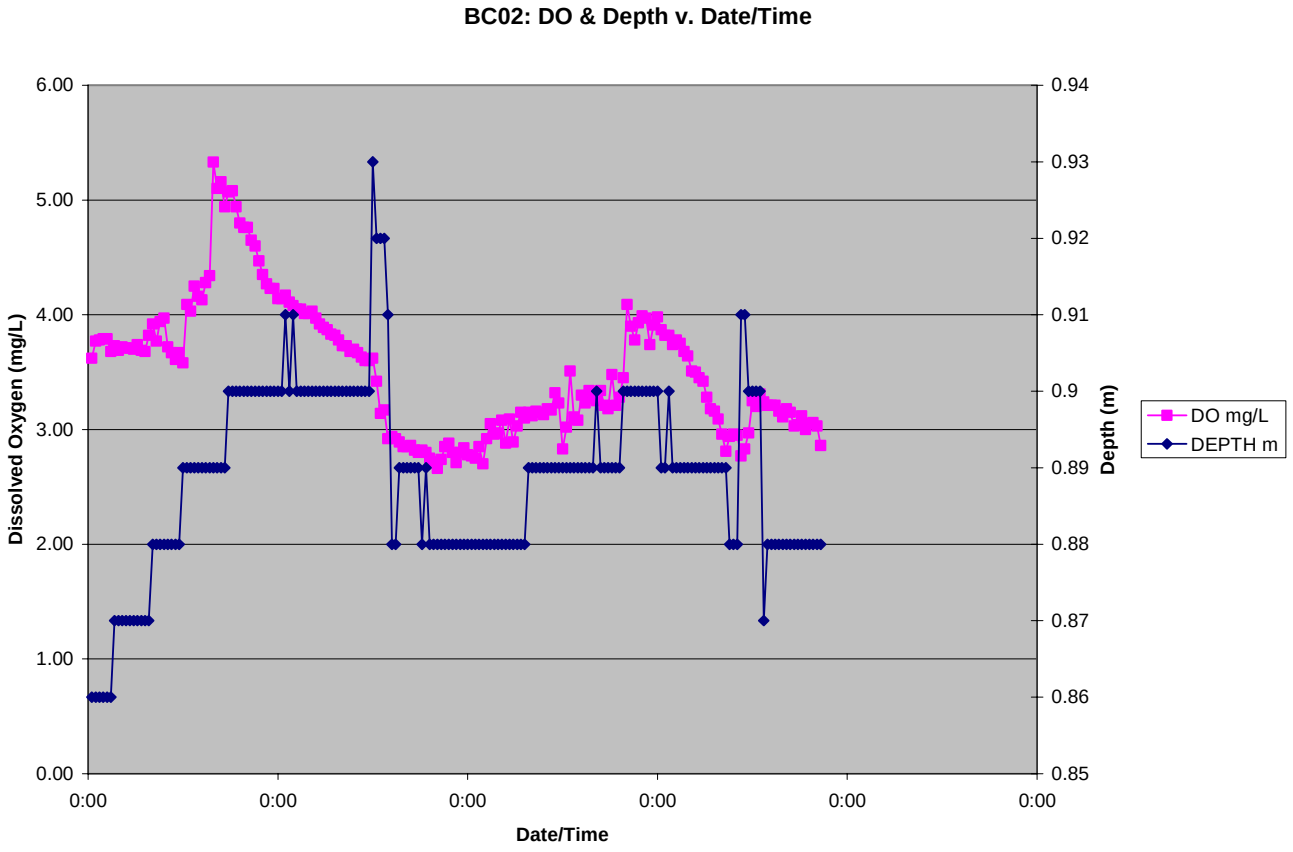
| 9/25/2003 | 10:45 | 9/25/2003 10:45 | 27.7 | 7.4 | 356 | 0.91 | 53.8 | 4.2 | 0.2 |
| 9/25/2003 | 11:00 | 9/25/2003 11:00 | 27.7 | 7.4 | 356 | 0.92 | 53.9 | 4.2 | 0.2 |
| 9/25/2003 | 11:15 | 9/25/2003 11:15 | 27.7 | 7.4 | 356 | 0.91 | 54.5 | 4.3 | 0.2 |
| | | **Average** | **27.9** | **7.7** | **348** | **0.90** | **67.0** | **5.2** | **0.2** |
| | | **Minimum** | **27.3** | **7.2** | **318** | **0.85** | **38.5** | **3.0** | **0.2** |
| | | **Maximum** | **28.9** | **8.6** | **364** | **0.95** | **134.4** | **10.4** | **0.2** |


BC02: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Temperature (C)
27.80
27.60
27.40
27.20
27.00
26.80
26.60
26.40
0:00
0:00
0:00
0:00
0:00
0:00
Date/Time
DO mg/L
Temp øC


BC02: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
pH
7.28
7.26
7.24
7.22
7.20
7.18
7.16
7.14
7.12
0:00
0:00
0:00
0:00
0:00
0:00
Date/Time
DO mg/L
pH Units


BC02: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Specific Conductivity (mS/cm)
1450
1400
1350
1300
1250
1200
1150
0:00
0:00
0:00
0:00
0:00
0:00
Date/Time
DO mg/L
SpCond æS/cm


BC02: DO & Depth v. Date/Time
Dissolved Oxygen (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Depth (m)
0.94
0.93
0.92
0.91
0.9
0.89
0.88
0.87
0.86
0.85
0:00
0:00
0:00
0:00
0:00
0:00
Date/Time
DO mg/L
DEPTH m

# Bayou Chauvin 120507 Site
# BC02
# Continuous Monitoring Data

| Date_ MMDDYY | Time HHMM | Date+Time MMDDYYYY HHMM | Temp øC | pH Units | SpCond æS/cm | DEPTH m | DO PERCENT Sat | DO mg/L | SALINITY ppt |
|---|---|---|---|---|---|---|---|---|---|
| 9/9/2003 | 11:30 | 9/9/2003 11:30 | 27.45 | 7.15 | 1404 | 0.86 | 46.0 | 3.62 | 0.74 |
| 9/9/2003 | 11:45 | 9/9/2003 11:45 | 27.44 | 7.17 | 1402 | 0.86 | 47.9 | 3.77 | 0.74 |
| 9/9/2003 | 12:00 | 9/9/2003 12:00 | 27.44 | 7.17 | 1401 | 0.86 | 48.0 | 3.78 | 0.74 |
| 9/9/2003 | 12:15 | 9/9/2003 12:15 | 27.43 | 7.17 | 1402 | 0.86 | 48.2 | 3.79 | 0.74 |
| 9/9/2003 | 12:30 | 9/9/2003 12:30 | 27.43 | 7.17 | 1401 | 0.86 | 48.1 | 3.79 | 0.74 |
| 9/9/2003 | 12:45 | 9/9/2003 12:45 | 27.42 | 7.17 | 1402 | 0.86 | 46.8 | 3.68 | 0.74 |
| 9/9/2003 | 13:00 | 9/9/2003 13:00 | 27.41 | 7.17 | 1402 | 0.87 | 47.3 | 3.73 | 0.74 |
| 9/9/2003 | 13:15 | 9/9/2003 13:15 | 27.40 | 7.17 | 1402 | 0.87 | 46.9 | 3.69 | 0.74 |
| 9/9/2003 | 13:30 | 9/9/2003 13:30 | 27.40 | 7.17 | 1402 | 0.87 | 47.3 | 3.72 | 0.74 |
| 9/9/2003 | 13:45 | 9/9/2003 13:45 | 27.39 | 7.17 | 1402 | 0.87 | 47.1 | 3.71 | 0.74 |
| 9/9/2003 | 14:00 | 9/9/2003 14:00 | 27.40 | 7.16 | 1402 | 0.87 | 47.1 | 3.71 | 0.74 |
| 9/9/2003 | 14:15 | 9/9/2003 14:15 | 27.40 | 7.17 | 1402 | 0.87 | 47.1 | 3.70 | 0.74 |
| 9/9/2003 | 14:30 | 9/9/2003 14:30 | 27.41 | 7.17 | 1402 | 0.87 | 47.5 | 3.74 | 0.74 |
| 9/9/2003 | 14:45 | 9/9/2003 14:45 | 27.41 | 7.16 | 1402 | 0.87 | 46.9 | 3.69 | 0.74 |
| 9/9/2003 | 15:00 | 9/9/2003 15:00 | 27.41 | 7.16 | 1402 | 0.87 | 46.8 | 3.68 | 0.74 |
| 9/9/2003 | 15:15 | 9/9/2003 15:15 | 27.43 | 7.17 | 1402 | 0.87 | 48.6 | 3.82 | 0.74 |
| 9/9/2003 | 15:30 | 9/9/2003 15:30 | 27.47 | 7.17 | 1402 | 0.88 | 49.8 | 3.92 | 0.74 |
| 9/9/2003 | 15:45 | 9/9/2003 15:45 | 27.48 | 7.17 | 1401 | 0.88 | 47.9 | 3.77 | 0.74 |
| 9/9/2003 | 16:00 | 9/9/2003 16:00 | 27.46 | 7.18 | 1400 | 0.88 | 50.1 | 3.94 | 0.74 |
| 9/9/2003 | 16:15 | 9/9/2003 16:15 | 27.47 | 7.18 | 1400 | 0.88 | 50.5 | 3.97 | 0.74 |
| 9/9/2003 | 16:30 | 9/9/2003 16:30 | 27.45 | 7.18 | 1398 | 0.88 | 47.3 | 3.72 | 0.74 |
| 9/9/2003 | 16:45 | 9/9/2003 16:45 | 27.47 | 7.17 | 1398 | 0.88 | 46.7 | 3.67 | 0.74 |
| 9/9/2003 | 17:00 | 9/9/2003 17:00 | 27.47 | 7.16 | 1398 | 0.88 | 45.9 | 3.61 | 0.74 |
| 9/9/2003 | 17:15 | 9/9/2003 17:15 | 27.48 | 7.17 | 1399 | 0.88 | 46.7 | 3.67 | 0.74 |
| 9/9/2003 | 17:30 | 9/9/2003 17:30 | 27.49 | 7.17 | 1400 | 0.89 | 45.6 | 3.58 | 0.74 |
| 9/9/2003 | 17:45 | 9/9/2003 17:45 | 27.53 | 7.19 | 1401 | 0.89 | 52.1 | 4.09 | 0.74 |
| 9/9/2003 | 18:00 | 9/9/2003 18:00 | 27.52 | 7.18 | 1400 | 0.89 | 51.3 | 4.03 | 0.74 |
| 9/9/2003 | 18:15 | 9/9/2003 18:15 | 27.53 | 7.20 | 1399 | 0.89 | 54.1 | 4.25 | 0.74 |
| 9/9/2003 | 18:30 | 9/9/2003 18:30 | 27.53 | 7.19 | 1400 | 0.89 | 53.0 | 4.16 | 0.74 |
| 9/9/2003 | 18:45 | 9/9/2003 18:45 | 27.55 | 7.20 | 1401 | 0.89 | 52.6 | 4.13 | 0.74 |
| 9/9/2003 | 19:00 | 9/9/2003 19:00 | 27.55 | 7.20 | 1401 | 0.89 | 54.5 | 4.28 | 0.74 |
| 9/9/2003 | 19:15 | 9/9/2003 19:15 | 27.55 | 7.21 | 1400 | 0.89 | 55.2 | 4.34 | 0.74 |
| 9/9/2003 | 19:30 | 9/9/2003 19:30 | 27.55 | 7.26 | 1405 | 0.89 | 67.9 | 5.33 | 0.74 |
| 9/9/2003 | 19:45 | 9/9/2003 19:45 | 27.54 | 7.26 | 1404 | 0.89 | 65.0 | 5.10 | 0.74 |
| 9/9/2003 | 20:00 | 9/9/2003 20:00 | 27.53 | 7.26 | 1405 | 0.89 | 65.8 | 5.16 | 0.74 |
| 9/9/2003 | 20:15 | 9/9/2003 20:15 | 27.50 | 7.25 | 1404 | 0.89 | 62.9 | 4.94 | 0.74 |
| 9/9/2003 | 20:30 | 9/9/2003 20:30 | 27.49 | 7.26 | 1405 | 0.9 | 64.5 | 5.07 | 0.74 |
| 9/9/2003 | 20:45 | 9/9/2003 20:45 | 27.48 | 7.26 | 1406 | 0.9 | 64.7 | 5.08 | 0.74 |
| 9/9/2003 | 21:00 | 9/9/2003 21:00 | 27.45 | 7.25 | 1405 | 0.9 | 62.9 | 4.94 | 0.74 |
| 9/9/2003 | 21:15 | 9/9/2003 21:15 | 27.44 | 7.25 | 1404 | 0.9 | 61.1 | 4.80 | 0.74 |
| 9/9/2003 | 21:30 | 9/9/2003 21:30 | 27.43 | 7.24 | 1404 | 0.9 | 60.5 | 4.76 | 0.74 |
| 9/9/2003 | 21:45 | 9/9/2003 21:45 | 27.42 | 7.24 | 1404 | 0.9 | 60.5 | 4.76 | 0.74 |
| 9/9/2003 | 22:00 | 9/9/2003 22:00 | 27.39 | 7.24 | 1404 | 0.9 | 59.1 | 4.65 | 0.74 |
| 9/9/2003 | 22:15 | 9/9/2003 22:15 | 27.39 | 7.23 | 1404 | 0.9 | 58.5 | 4.60 | 0.74 |

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|---|---|---|---|---|---|---|---|---|---|
| 9/9/2003 | 22:30 | 9/9/2003 22:30 | 27.38 | 7.22 | 1404 | 0.9 | 56.8 | 4.47 | 0.74 |
| 9/9/2003 | 22:45 | 9/9/2003 22:45 | 27.36 | 7.21 | 1405 | 0.9 | 55.2 | 4.35 | 0.74 |
| 9/9/2003 | 23:00 | 9/9/2003 23:00 | 27.35 | 7.21 | 1404 | 0.9 | 54.2 | 4.27 | 0.74 |
| 9/9/2003 | 23:15 | 9/9/2003 23:15 | 27.32 | 7.20 | 1405 | 0.9 | 53.6 | 4.23 | 0.74 |
| 9/9/2003 | 23:30 | 9/9/2003 23:30 | 27.31 | 7.20 | 1405 | 0.9 | 53.7 | 4.23 | 0.74 |
| 9/9/2003 | 23:45 | 9/9/2003 23:45 | 27.28 | 7.20 | 1405 | 0.9 | 52.5 | 4.14 | 0.74 |
| 9/10/2003 | 0:00 | 9/10/2003 0:00 | 27.28 | 7.20 | 1404 | 0.9 | 52.4 | 4.14 | 0.74 |
| 9/10/2003 | 0:15 | 9/10/2003 0:15 | 27.25 | 7.20 | 1404 | 0.91 | 52.8 | 4.17 | 0.74 |
| 9/10/2003 | 0:30 | 9/10/2003 0:30 | 27.24 | 7.20 | 1404 | 0.9 | 52.1 | 4.11 | 0.74 |
| 9/10/2003 | 0:45 | 9/10/2003 0:45 | 27.22 | 7.20 | 1404 | 0.91 | 51.6 | 4.08 | 0.74 |
| 9/10/2003 | 1:00 | 9/10/2003 1:00 | 27.19 | 7.20 | 1404 | 0.9 | 51.3 | 4.05 | 0.74 |
| 9/10/2003 | 1:15 | 9/10/2003 1:15 | 27.18 | 7.20 | 1403 | 0.9 | 51.2 | 4.05 | 0.74 |
| 9/10/2003 | 1:30 | 9/10/2003 1:30 | 27.17 | 7.20 | 1403 | 0.9 | 50.7 | 4.01 | 0.74 |
| 9/10/2003 | 1:45 | 9/10/2003 1:45 | 27.15 | 7.20 | 1404 | 0.9 | 50.7 | 4.01 | 0.74 |
| 9/10/2003 | 2:00 | 9/10/2003 2:00 | 27.13 | 7.20 | 1405 | 0.9 | 50.9 | 4.03 | 0.74 |
| 9/10/2003 | 2:15 | 9/10/2003 2:15 | 27.13 | 7.19 | 1405 | 0.9 | 50.1 | 3.97 | 0.74 |
| 9/10/2003 | 2:30 | 9/10/2003 2:30 | 27.11 | 7.19 | 1404 | 0.9 | 49.6 | 3.92 | 0.74 |
| 9/10/2003 | 2:45 | 9/10/2003 2:45 | 27.09 | 7.19 | 1404 | 0.9 | 49.1 | 3.89 | 0.74 |
| 9/10/2003 | 3:00 | 9/10/2003 3:00 | 27.07 | 7.19 | 1404 | 0.9 | 48.9 | 3.87 | 0.74 |
| 9/10/2003 | 3:15 | 9/10/2003 3:15 | 27.04 | 7.19 | 1404 | 0.9 | 48.4 | 3.83 | 0.74 |
| 9/10/2003 | 3:30 | 9/10/2003 3:30 | 27.04 | 7.19 | 1404 | 0.9 | 48.2 | 3.82 | 0.74 |
| 9/10/2003 | 3:45 | 9/10/2003 3:45 | 27.02 | 7.18 | 1403 | 0.9 | 47.7 | 3.78 | 0.74 |
| 9/10/2003 | 4:00 | 9/10/2003 4:00 | 27.00 | 7.18 | 1403 | 0.9 | 47.1 | 3.73 | 0.74 |
| 9/10/2003 | 4:15 | 9/10/2003 4:15 | 26.97 | 7.18 | 1403 | 0.9 | 47.0 | 3.73 | 0.74 |
| 9/10/2003 | 4:30 | 9/10/2003 4:30 | 26.97 | 7.18 | 1403 | 0.9 | 46.4 | 3.68 | 0.74 |
| 9/10/2003 | 4:45 | 9/10/2003 4:45 | 26.95 | 7.18 | 1403 | 0.9 | 46.6 | 3.70 | 0.74 |
| 9/10/2003 | 5:00 | 9/10/2003 5:00 | 26.94 | 7.18 | 1403 | 0.9 | 46.3 | 3.67 | 0.74 |
| 9/10/2003 | 5:15 | 9/10/2003 5:15 | 26.92 | 7.18 | 1403 | 0.9 | 45.8 | 3.63 | 0.74 |
| 9/10/2003 | 5:30 | 9/10/2003 5:30 | 26.90 | 7.18 | 1403 | 0.9 | 45.3 | 3.60 | 0.74 |
| 9/10/2003 | 5:45 | 9/10/2003 5:45 | 26.90 | 7.18 | 1403 | 0.9 | 45.4 | 3.60 | 0.74 |
| 9/10/2003 | 6:00 | 9/10/2003 6:00 | 26.92 | 7.17 | 1397 | 0.93 | 45.6 | 3.62 | 0.74 |
| 9/10/2003 | 6:15 | 9/10/2003 6:15 | 26.95 | 7.17 | 1385 | 0.92 | 43.1 | 3.42 | 0.73 |
| 9/10/2003 | 6:30 | 9/10/2003 6:30 | 26.96 | 7.17 | 1373 | 0.92 | 39.5 | 3.14 | 0.73 |
| 9/10/2003 | 6:45 | 9/10/2003 6:45 | 26.94 | 7.18 | 1357 | 0.92 | 39.9 | 3.17 | 0.72 |
| 9/10/2003 | 7:00 | 9/10/2003 7:00 | 26.99 | 7.17 | 1342 | 0.91 | 36.9 | 2.92 | 0.71 |
| 9/10/2003 | 7:15 | 9/10/2003 7:15 | 26.97 | 7.16 | 1335 | 0.88 | 37.0 | 2.94 | 0.71 |
| 9/10/2003 | 7:30 | 9/10/2003 7:30 | 26.96 | 7.16 | 1335 | 0.88 | 36.8 | 2.92 | 0.71 |
| 9/10/2003 | 7:45 | 9/10/2003 7:45 | 26.94 | 7.16 | 1336 | 0.89 | 36.5 | 2.89 | 0.71 |
| 9/10/2003 | 8:00 | 9/10/2003 8:00 | 26.93 | 7.16 | 1339 | 0.89 | 35.8 | 2.85 | 0.71 |
| 9/10/2003 | 8:15 | 9/10/2003 8:15 | 26.92 | 7.16 | 1338 | 0.89 | 35.9 | 2.85 | 0.71 |
| 9/10/2003 | 8:30 | 9/10/2003 8:30 | 26.91 | 7.16 | 1337 | 0.89 | 36.0 | 2.86 | 0.71 |
| 9/10/2003 | 8:45 | 9/10/2003 8:45 | 26.90 | 7.16 | 1336 | 0.89 | 35.4 | 2.82 | 0.71 |
| 9/10/2003 | 9:00 | 9/10/2003 9:00 | 26.91 | 7.16 | 1337 | 0.89 | 35.2 | 2.80 | 0.71 |
| 9/10/2003 | 9:15 | 9/10/2003 9:15 | 26.90 | 7.16 | 1335 | 0.88 | 35.5 | 2.82 | 0.71 |
| 9/10/2003 | 9:30 | 9/10/2003 9:30 | 26.89 | 7.16 | 1336 | 0.89 | 35.2 | 2.80 | 0.71 |
| 9/10/2003 | 9:45 | 9/10/2003 9:45 | 26.89 | 7.16 | 1335 | 0.88 | 34.6 | 2.75 | 0.71 |
| 9/10/2003 | 10:00 | 9/10/2003 10:00 | 26.89 | 7.16 | 1335 | 0.88 | 34.2 | 2.72 | 0.71 |
| 9/10/2003 | 10:15 | 9/10/2003 10:15 | 26.91 | 7.15 | 1341 | 0.88 | 33.5 | 2.66 | 0.71 |
| 9/10/2003 | 10:30 | 9/10/2003 10:30 | 26.91 | 7.16 | 1341 | 0.88 | 34.5 | 2.74 | 0.71 |
| 9/10/2003 | 10:45 | 9/10/2003 10:45 | 26.94 | 7.16 | 1341 | 0.88 | 35.8 | 2.85 | 0.71 |
| 9/10/2003 | 11:00 | 9/10/2003 11:00 | 26.95 | 7.16 | 1341 | 0.88 | 36.3 | 2.88 | 0.71 |

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|---|---|---|---|---|---|---|---|---|---|
| 9/10/2003 | 11:15 | 9/10/2003 11:15 | 26.93 | 7.16 | 1341 | 0.88 | 35.3 | 2.80 | 0.71 |
| 9/10/2003 | 11:30 | 9/10/2003 11:30 | 26.96 | 7.15 | 1340 | 0.88 | 34.1 | 2.71 | 0.71 |
| 9/10/2003 | 11:45 | 9/10/2003 11:45 | 26.94 | 7.16 | 1341 | 0.88 | 35.3 | 2.80 | 0.71 |
| 9/10/2003 | 12:00 | 9/10/2003 12:00 | 26.95 | 7.16 | 1343 | 0.88 | 35.8 | 2.84 | 0.71 |
| 9/10/2003 | 12:15 | 9/10/2003 12:15 | 26.96 | 7.16 | 1343 | 0.88 | 35.0 | 2.78 | 0.71 |
| 9/10/2003 | 12:30 | 9/10/2003 12:30 | 26.95 | 7.16 | 1343 | 0.88 | 34.9 | 2.77 | 0.71 |
| 9/10/2003 | 12:45 | 9/10/2003 12:45 | 26.99 | 7.16 | 1343 | 0.88 | 34.6 | 2.75 | 0.71 |
| 9/10/2003 | 13:00 | 9/10/2003 13:00 | 27.02 | 7.16 | 1342 | 0.88 | 36.0 | 2.85 | 0.71 |
| 9/10/2003 | 13:15 | 9/10/2003 13:15 | 26.97 | 7.15 | 1344 | 0.88 | 34.1 | 2.70 | 0.71 |
| 9/10/2003 | 13:30 | 9/10/2003 13:30 | 27.00 | 7.16 | 1347 | 0.88 | 36.9 | 2.92 | 0.71 |
| 9/10/2003 | 13:45 | 9/10/2003 13:45 | 27.07 | 7.17 | 1346 | 0.88 | 38.5 | 3.05 | 0.71 |
| 9/10/2003 | 14:00 | 9/10/2003 14:00 | 27.03 | 7.17 | 1349 | 0.88 | 37.3 | 2.96 | 0.71 |
| 9/10/2003 | 14:15 | 9/10/2003 14:15 | 27.03 | 7.17 | 1350 | 0.88 | 37.5 | 2.97 | 0.71 |
| 9/10/2003 | 14:30 | 9/10/2003 14:30 | 27.10 | 7.18 | 1348 | 0.88 | 38.9 | 3.08 | 0.71 |
| 9/10/2003 | 14:45 | 9/10/2003 14:45 | 27.06 | 7.17 | 1351 | 0.88 | 36.4 | 2.88 | 0.71 |
| 9/10/2003 | 15:00 | 9/10/2003 15:00 | 27.13 | 7.18 | 1347 | 0.88 | 39.0 | 3.09 | 0.71 |
| 9/10/2003 | 15:15 | 9/10/2003 15:15 | 27.11 | 7.17 | 1350 | 0.88 | 36.5 | 2.89 | 0.71 |
| 9/10/2003 | 15:30 | 9/10/2003 15:30 | 27.07 | 7.17 | 1353 | 0.88 | 38.2 | 3.03 | 0.71 |
| 9/10/2003 | 15:45 | 9/10/2003 15:45 | 27.16 | 7.18 | 1348 | 0.88 | 39.9 | 3.15 | 0.71 |
| 9/10/2003 | 16:00 | 9/10/2003 16:00 | 27.16 | 7.18 | 1350 | 0.88 | 39.2 | 3.10 | 0.71 |
| 9/10/2003 | 16:15 | 9/10/2003 16:15 | 27.15 | 7.17 | 1351 | 0.89 | 39.8 | 3.15 | 0.71 |
| 9/10/2003 | 16:30 | 9/10/2003 16:30 | 27.17 | 7.18 | 1353 | 0.89 | 39.5 | 3.12 | 0.72 |
| 9/10/2003 | 16:45 | 9/10/2003 16:45 | 27.13 | 7.18 | 1354 | 0.89 | 39.9 | 3.16 | 0.72 |
| 9/10/2003 | 17:00 | 9/10/2003 17:00 | 27.17 | 7.18 | 1354 | 0.89 | 39.9 | 3.15 | 0.72 |
| 9/10/2003 | 17:15 | 9/10/2003 17:15 | 27.14 | 7.18 | 1355 | 0.89 | 39.6 | 3.13 | 0.72 |
| 9/10/2003 | 17:30 | 9/10/2003 17:30 | 27.17 | 7.18 | 1354 | 0.89 | 40.2 | 3.18 | 0.72 |
| 9/10/2003 | 17:45 | 9/10/2003 17:45 | 27.22 | 7.18 | 1352 | 0.89 | 40.2 | 3.17 | 0.71 |
| 9/10/2003 | 18:00 | 9/10/2003 18:00 | 27.24 | 7.18 | 1350 | 0.89 | 42.1 | 3.32 | 0.71 |
| 9/10/2003 | 18:15 | 9/10/2003 18:15 | 27.21 | 7.18 | 1353 | 0.89 | 40.8 | 3.23 | 0.71 |
| 9/10/2003 | 18:30 | 9/10/2003 18:30 | 27.13 | 7.16 | 1359 | 0.89 | 35.8 | 2.83 | 0.72 |
| 9/10/2003 | 18:45 | 9/10/2003 18:45 | 27.24 | 7.18 | 1353 | 0.89 | 38.3 | 3.02 | 0.72 |
| 9/10/2003 | 19:00 | 9/10/2003 19:00 | 27.29 | 7.19 | 1350 | 0.89 | 44.5 | 3.51 | 0.71 |
| 9/10/2003 | 19:15 | 9/10/2003 19:15 | 27.23 | 7.17 | 1355 | 0.89 | 39.3 | 3.11 | 0.72 |
| 9/10/2003 | 19:30 | 9/10/2003 19:30 | 27.18 | 7.17 | 1358 | 0.89 | 38.9 | 3.08 | 0.72 |
| 9/10/2003 | 19:45 | 9/10/2003 19:45 | 27.28 | 7.19 | 1353 | 0.89 | 41.8 | 3.30 | 0.71 |
| 9/10/2003 | 20:00 | 9/10/2003 20:00 | 27.28 | 7.18 | 1352 | 0.89 | 40.9 | 3.23 | 0.71 |
| 9/10/2003 | 20:15 | 9/10/2003 20:15 | 27.30 | 7.19 | 1351 | 0.89 | 42.3 | 3.34 | 0.71 |
| 9/10/2003 | 20:30 | 9/10/2003 20:30 | 27.30 | 7.19 | 1350 | 0.89 | 41.5 | 3.27 | 0.71 |
| 9/10/2003 | 20:45 | 9/10/2003 20:45 | 27.30 | 7.19 | 1352 | 0.9 | 41.2 | 3.25 | 0.71 |
| 9/10/2003 | 21:00 | 9/10/2003 21:00 | 27.30 | 7.19 | 1350 | 0.89 | 42.3 | 3.34 | 0.71 |
| 9/10/2003 | 21:15 | 9/10/2003 21:15 | 27.28 | 7.18 | 1354 | 0.89 | 40.7 | 3.21 | 0.72 |
| 9/10/2003 | 21:30 | 9/10/2003 21:30 | 27.27 | 7.18 | 1354 | 0.89 | 40.3 | 3.18 | 0.72 |
| 9/10/2003 | 21:45 | 9/10/2003 21:45 | 27.30 | 7.20 | 1349 | 0.89 | 44.1 | 3.48 | 0.71 |
| 9/10/2003 | 22:00 | 9/10/2003 22:00 | 27.27 | 7.18 | 1354 | 0.89 | 40.7 | 3.21 | 0.72 |
| 9/10/2003 | 22:15 | 9/10/2003 22:15 | 27.26 | 7.19 | 1353 | 0.89 | 41.5 | 3.28 | 0.72 |
| 9/10/2003 | 22:30 | 9/10/2003 22:30 | 27.26 | 7.20 | 1351 | 0.9 | 43.7 | 3.45 | 0.71 |
| 9/10/2003 | 22:45 | 9/10/2003 22:45 | 27.25 | 7.24 | 1337 | 0.9 | 51.8 | 4.09 | 0.71 |
| 9/10/2003 | 23:00 | 9/10/2003 23:00 | 27.24 | 7.23 | 1341 | 0.9 | 49.4 | 3.90 | 0.71 |
| 9/10/2003 | 23:15 | 9/10/2003 23:15 | 27.22 | 7.22 | 1344 | 0.9 | 47.8 | 3.78 | 0.71 |
| 9/10/2003 | 23:30 | 9/10/2003 23:30 | 27.22 | 7.23 | 1340 | 0.9 | 49.7 | 3.93 | 0.71 |
| 9/10/2003 | 23:45 | 9/10/2003 23:45 | 27.20 | 7.24 | 1340 | 0.9 | 50.5 | 3.99 | 0.71 |

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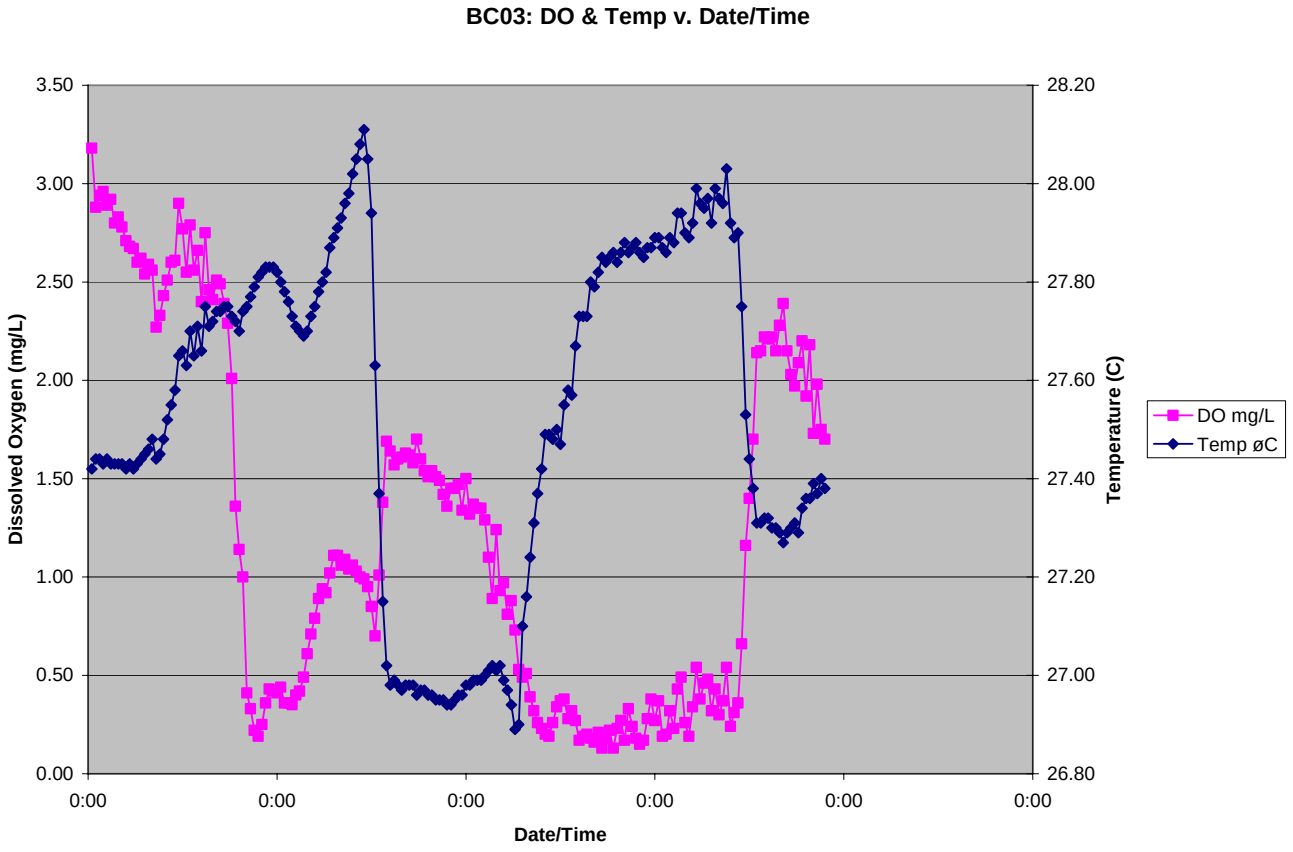
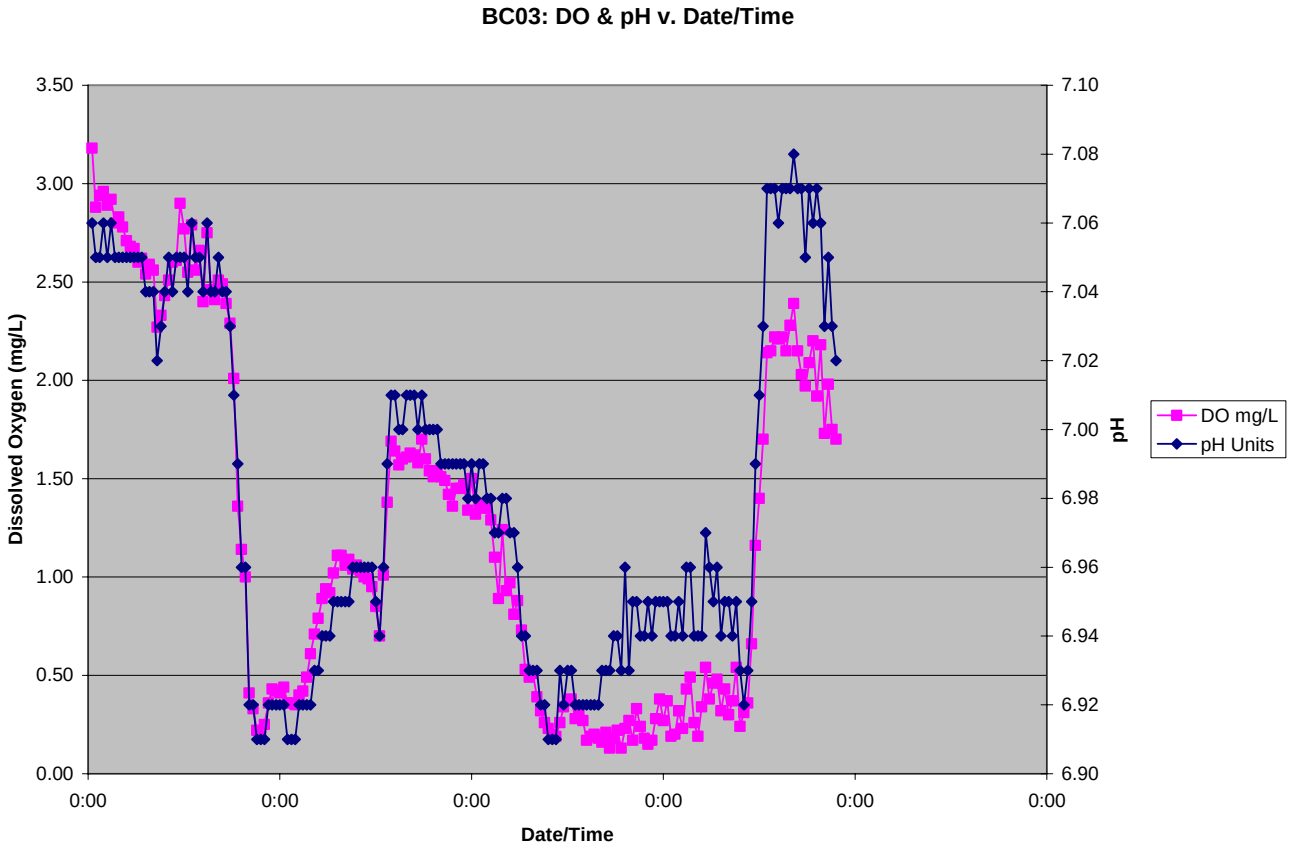
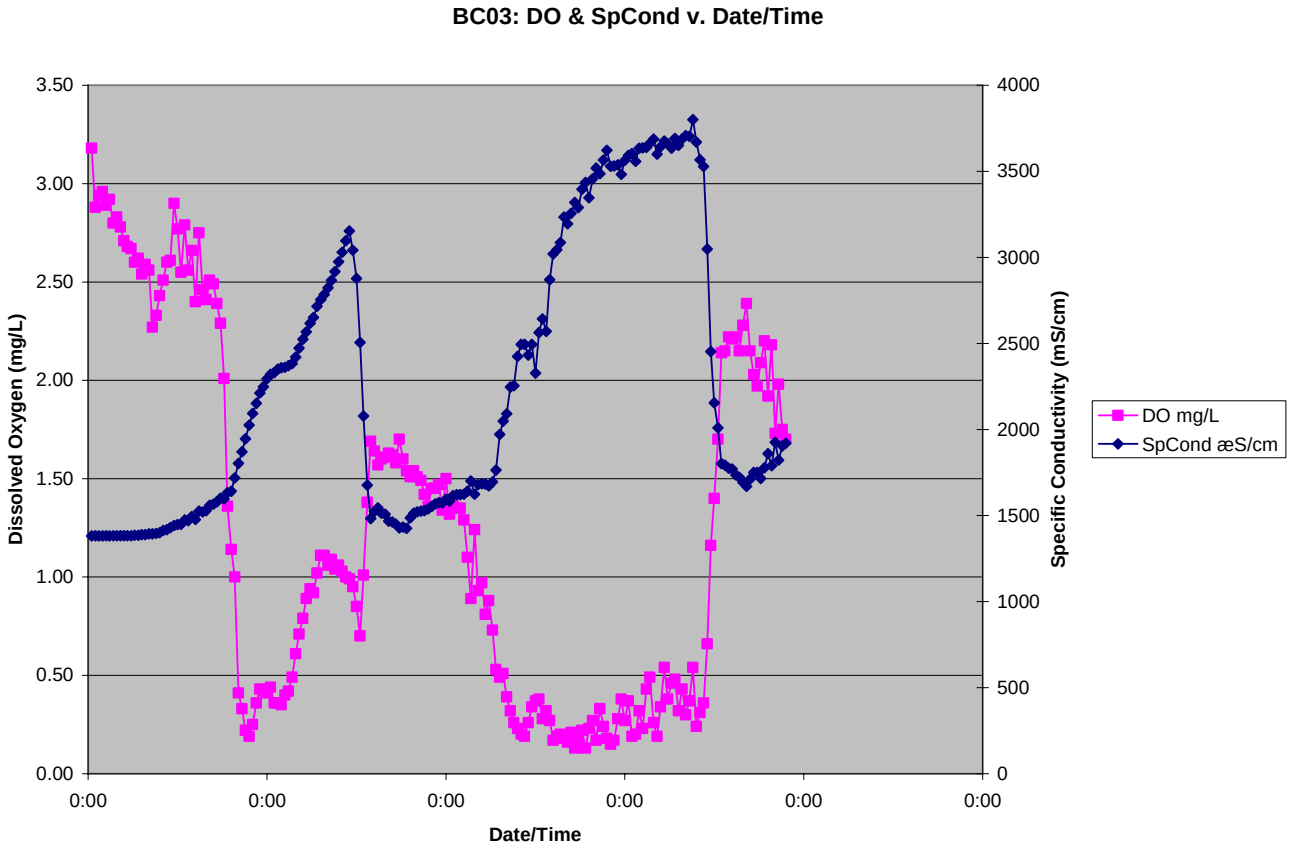
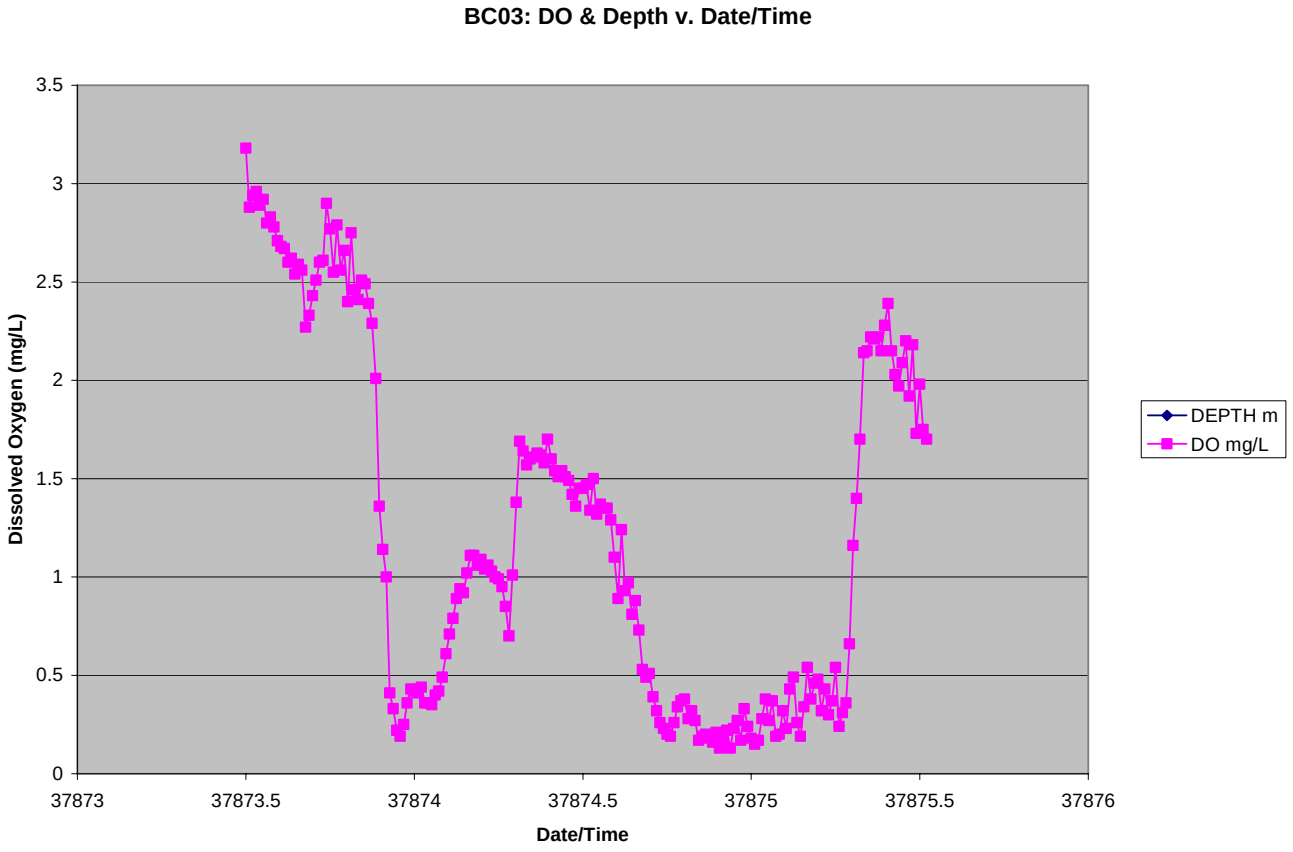
|---|---|---|---|---|---|---|---|---|---|
| 9/11/2003 | 0:00 | 9/11/2003 0:00 | 27.18 | 7.23 | 1341 | 0.9 | 50.2 | 3.97 | 0.71 |
| 9/11/2003 | 0:15 | 9/11/2003 0:15 | 27.17 | 7.22 | 1345 | 0.9 | 47.3 | 3.74 | 0.71 |
| 9/11/2003 | 0:30 | 9/11/2003 0:30 | 27.16 | 7.23 | 1342 | 0.9 | 49.5 | 3.91 | 0.71 |
| 9/11/2003 | 0:45 | 9/11/2003 0:45 | 27.15 | 7.24 | 1339 | 0.9 | 50.3 | 3.98 | 0.71 |
| 9/11/2003 | 1:00 | 9/11/2003 1:00 | 27.13 | 7.24 | 1339 | 0.89 | 48.9 | 3.87 | 0.71 |
| 9/11/2003 | 1:15 | 9/11/2003 1:15 | 27.11 | 7.23 | 1341 | 0.89 | 48.2 | 3.82 | 0.71 |
| 9/11/2003 | 1:30 | 9/11/2003 1:30 | 27.11 | 7.22 | 1341 | 0.9 | 48.3 | 3.82 | 0.71 |
| 9/11/2003 | 1:45 | 9/11/2003 1:45 | 27.09 | 7.23 | 1343 | 0.89 | 47.2 | 3.74 | 0.71 |
| 9/11/2003 | 2:00 | 9/11/2003 2:00 | 27.08 | 7.23 | 1341 | 0.89 | 47.7 | 3.78 | 0.71 |
| 9/11/2003 | 2:15 | 9/11/2003 2:15 | 27.06 | 7.23 | 1341 | 0.89 | 47.4 | 3.75 | 0.71 |
| 9/11/2003 | 2:30 | 9/11/2003 2:30 | 27.06 | 7.22 | 1342 | 0.89 | 46.4 | 3.68 | 0.71 |
| 9/11/2003 | 2:45 | 9/11/2003 2:45 | 27.05 | 7.22 | 1343 | 0.89 | 45.9 | 3.64 | 0.71 |
| 9/11/2003 | 3:00 | 9/11/2003 3:00 | 27.04 | 7.21 | 1345 | 0.89 | 44.3 | 3.51 | 0.71 |
| 9/11/2003 | 3:15 | 9/11/2003 3:15 | 27.02 | 7.21 | 1345 | 0.89 | 44.2 | 3.50 | 0.71 |
| 9/11/2003 | 3:30 | 9/11/2003 3:30 | 27.01 | 7.21 | 1346 | 0.89 | 43.6 | 3.45 | 0.71 |
| 9/11/2003 | 3:45 | 9/11/2003 3:45 | 27.00 | 7.20 | 1346 | 0.89 | 43.1 | 3.42 | 0.71 |
| 9/11/2003 | 4:00 | 9/11/2003 4:00 | 26.98 | 7.20 | 1347 | 0.89 | 41.3 | 3.28 | 0.71 |
| 9/11/2003 | 4:15 | 9/11/2003 4:15 | 26.97 | 7.19 | 1346 | 0.89 | 40.1 | 3.18 | 0.71 |
| 9/11/2003 | 4:30 | 9/11/2003 4:30 | 26.96 | 7.19 | 1348 | 0.89 | 39.8 | 3.16 | 0.71 |
| 9/11/2003 | 4:45 | 9/11/2003 4:45 | 26.95 | 7.18 | 1349 | 0.89 | 39.0 | 3.09 | 0.71 |
| 9/11/2003 | 5:00 | 9/11/2003 5:00 | 26.94 | 7.17 | 1354 | 0.89 | 37.3 | 2.96 | 0.72 |
| 9/11/2003 | 5:15 | 9/11/2003 5:15 | 26.93 | 7.16 | 1357 | 0.89 | 35.4 | 2.81 | 0.72 |
| 9/11/2003 | 5:30 | 9/11/2003 5:30 | 26.90 | 7.17 | 1349 | 0.88 | 37.0 | 2.94 | 0.71 |
| 9/11/2003 | 5:45 | 9/11/2003 5:45 | 26.89 | 7.18 | 1350 | 0.88 | 37.3 | 2.96 | 0.71 |
| 9/11/2003 | 6:00 | 9/11/2003 6:00 | 26.88 | 7.18 | 1349 | 0.88 | 37.1 | 2.95 | 0.71 |
| 9/11/2003 | 6:15 | 9/11/2003 6:15 | 26.89 | 7.16 | 1345 | 0.91 | 34.9 | 2.77 | 0.71 |
| 9/11/2003 | 6:30 | 9/11/2003 6:30 | 26.89 | 7.17 | 1324 | 0.91 | 35.6 | 2.83 | 0.70 |
| 9/11/2003 | 6:45 | 9/11/2003 6:45 | 26.92 | 7.18 | 1306 | 0.9 | 37.4 | 2.97 | 0.69 |
| 9/11/2003 | 7:00 | 9/11/2003 7:00 | 26.93 | 7.20 | 1300 | 0.9 | 40.9 | 3.25 | 0.69 |
| 9/11/2003 | 7:15 | 9/11/2003 7:15 | 26.81 | 7.18 | 1267 | 0.9 | 40.2 | 3.20 | 0.67 |
| 9/11/2003 | 7:30 | 9/11/2003 7:30 | 26.54 | 7.15 | 1198 | 0.9 | 41.3 | 3.31 | 0.63 |
| 9/11/2003 | 7:45 | 9/11/2003 7:45 | 26.57 | 7.16 | 1215 | 0.87 | 40.6 | 3.24 | 0.64 |
| 9/11/2003 | 8:00 | 9/11/2003 8:00 | 26.57 | 7.16 | 1206 | 0.88 | 40.2 | 3.21 | 0.63 |
| 9/11/2003 | 8:15 | 9/11/2003 8:15 | 26.55 | 7.16 | 1203 | 0.88 | 40.1 | 3.21 | 0.63 |
| 9/11/2003 | 8:30 | 9/11/2003 8:30 | 26.53 | 7.15 | 1197 | 0.88 | 40.1 | 3.21 | 0.63 |
| 9/11/2003 | 8:45 | 9/11/2003 8:45 | 26.54 | 7.15 | 1202 | 0.88 | 39.6 | 3.16 | 0.63 |
| 9/11/2003 | 9:00 | 9/11/2003 9:00 | 26.56 | 7.15 | 1203 | 0.88 | 38.9 | 3.11 | 0.63 |
| 9/11/2003 | 9:15 | 9/11/2003 9:15 | 26.68 | 7.17 | 1231 | 0.88 | 39.9 | 3.18 | 0.65 |
| 9/11/2003 | 9:30 | 9/11/2003 9:30 | 26.62 | 7.16 | 1216 | 0.88 | 39.5 | 3.15 | 0.64 |
| 9/11/2003 | 9:45 | 9/11/2003 9:45 | 26.61 | 7.15 | 1215 | 0.88 | 37.9 | 3.03 | 0.64 |
| 9/11/2003 | 10:00 | 9/11/2003 10:00 | 26.63 | 7.15 | 1220 | 0.88 | 38.1 | 3.04 | 0.64 |
| 9/11/2003 | 10:15 | 9/11/2003 10:15 | 26.61 | 7.15 | 1213 | 0.88 | 39.0 | 3.12 | 0.64 |
| 9/11/2003 | 10:30 | 9/11/2003 10:30 | 26.62 | 7.15 | 1216 | 0.88 | 37.6 | 3.00 | 0.64 |
| 9/11/2003 | 10:45 | 9/11/2003 10:45 | 26.63 | 7.15 | 1217 | 0.88 | 38.2 | 3.05 | 0.64 |
| 9/11/2003 | 11:00 | 9/11/2003 11:00 | 26.61 | 7.15 | 1209 | 0.88 | 38.3 | 3.06 | 0.64 |
| 9/11/2003 | 11:15 | 9/11/2003 11:15 | 26.64 | 7.15 | 1217 | 0.88 | 37.9 | 3.03 | 0.64 |
| 9/11/2003 | 11:30 | 9/11/2003 11:30 | 26.61 | 7.13 | 1214 | 0.88 | 35.8 | 2.86 | 0.64 |
| **Average** | | | **27.12** | **7.18** | **1355.5** | **0.889** | **44.5** | **3.52** | **0.72** |
| **Minimum** | | | **26.53** | **7.13** | **1197** | **0.86** | **33.5** | **2.66** | **0.63** |
| **Maximum** | | | **27.55** | **7.26** | **1406** | **0.93** | **67.9** | **5.33** | **0.74** |


BC03: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Temperature (C)
28.20
28.00
27.80
27.60
27.40
27.20
27.00
26.80
0:00
0:00
0:00
0:00
0:00
0:00
Date/Time
DO mg/L
Temp øC


BC03: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
pH
7.10
7.08
7.06
7.04
7.02
7.00
6.98
6.96
6.94
6.92
6.90
0:00
0:00
0:00
0:00
0:00
0:00
Date/Time
DO mg/L
pH Units


BC03: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Specific Conductivity (mS/cm)
4000
3500
3000
2500
2000
1500
1000
500
0
0:00
0:00
0:00
0:00
0:00
0:00
Date/Time
DO mg/L
SpCond æS/cm


BC03: DO & Depth v. Date/Time
Dissolved Oxygen (mg/L)
3.5
3
2.5
2
1.5
1
0.5
0
37873
37873.5
37874
37874.5
37875
37875.5
37876
Date/Time
DEPTH m
DO mg/L

# Bayou Chauvin 120507 Site BC03
# Continuous Monitoring

| Date_ | Time | Date+Time | Temp | pH | SpCond | DO PERCENT | DO | iBatt | SALINITY |
|---|---|---|---|---|---|---|---|---|---|
| | | MMDDYYYY | | | | | | | |
| MMDDYY | HHMM | HHMM | øC | Units | æS/cm | Sat | mg/L | Volts | ppt |
| 9/9/2003 | 12:00 | 9/9/2003 12:00 | 27.42 | 7.06 | 1381 | 40.4 | 3.18 | 10.1 | 0.73 |
| 9/9/2003 | 12:15 | 9/9/2003 12:15 | 27.44 | 7.05 | 1383 | 36.6 | 2.88 | 10.3 | 0.73 |
| 9/9/2003 | 12:30 | 9/9/2003 12:30 | 27.44 | 7.05 | 1382 | 37.3 | 2.94 | 10.2 | 0.73 |
| 9/9/2003 | 12:45 | 9/9/2003 12:45 | 27.43 | 7.06 | 1382 | 37.6 | 2.96 | 10.4 | 0.73 |
| 9/9/2003 | 13:00 | 9/9/2003 13:00 | 27.44 | 7.05 | 1383 | 36.8 | 2.89 | 10.2 | 0.73 |
| 9/9/2003 | 13:15 | 9/9/2003 13:15 | 27.43 | 7.06 | 1382 | 37.1 | 2.92 | 10.4 | 0.73 |
| 9/9/2003 | 13:30 | 9/9/2003 13:30 | 27.43 | 7.05 | 1383 | 35.5 | 2.80 | 10.2 | 0.73 |
| 9/9/2003 | 13:45 | 9/9/2003 13:45 | 27.43 | 7.05 | 1383 | 36.0 | 2.83 | 10.2 | 0.73 |
| 9/9/2003 | 14:00 | 9/9/2003 14:00 | 27.43 | 7.05 | 1383 | 35.4 | 2.78 | 10.2 | 0.73 |
| 9/9/2003 | 14:15 | 9/9/2003 14:15 | 27.42 | 7.05 | 1383 | 34.5 | 2.71 | 10.2 | 0.73 |
| 9/9/2003 | 14:30 | 9/9/2003 14:30 | 27.43 | 7.05 | 1383 | 34.1 | 2.68 | 10.2 | 0.73 |
| 9/9/2003 | 14:45 | 9/9/2003 14:45 | 27.42 | 7.05 | 1383 | 34.0 | 2.67 | 10.2 | 0.73 |
| 9/9/2003 | 15:00 | 9/9/2003 15:00 | 27.43 | 7.05 | 1385 | 33.0 | 2.60 | 10.2 | 0.73 |
| 9/9/2003 | 15:15 | 9/9/2003 15:15 | 27.44 | 7.05 | 1386 | 33.2 | 2.62 | 10.2 | 0.73 |
| 9/9/2003 | 15:30 | 9/9/2003 15:30 | 27.45 | 7.04 | 1389 | 32.3 | 2.54 | 10.2 | 0.73 |
| 9/9/2003 | 15:45 | 9/9/2003 15:45 | 27.46 | 7.04 | 1389 | 33.0 | 2.59 | 10.1 | 0.73 |
| 9/9/2003 | 16:00 | 9/9/2003 16:00 | 27.48 | 7.04 | 1393 | 32.5 | 2.56 | 10.2 | 0.74 |
| 9/9/2003 | 16:15 | 9/9/2003 16:15 | 27.44 | 7.02 | 1394 | 28.9 | 2.27 | 10.2 | 0.74 |
| 9/9/2003 | 16:30 | 9/9/2003 16:30 | 27.45 | 7.03 | 1396 | 29.6 | 2.33 | 10.3 | 0.74 |
| 9/9/2003 | 16:45 | 9/9/2003 16:45 | 27.48 | 7.04 | 1400 | 30.9 | 2.43 | 10.4 | 0.74 |
| 9/9/2003 | 17:00 | 9/9/2003 17:00 | 27.52 | 7.05 | 1414 | 32.0 | 2.51 | 10.3 | 0.75 |
| 9/9/2003 | 17:15 | 9/9/2003 17:15 | 27.55 | 7.04 | 1418 | 33.1 | 2.60 | 10.2 | 0.75 |
| 9/9/2003 | 17:30 | 9/9/2003 17:30 | 27.58 | 7.05 | 1430 | 33.3 | 2.61 | 10.2 | 0.76 |
| 9/9/2003 | 17:45 | 9/9/2003 17:45 | 27.65 | 7.05 | 1442 | 37.0 | 2.90 | 10.2 | 0.76 |
| 9/9/2003 | 18:00 | 9/9/2003 18:00 | 27.66 | 7.05 | 1447 | 35.4 | 2.77 | 10.2 | 0.77 |
| 9/9/2003 | 18:15 | 9/9/2003 18:15 | 27.63 | 7.04 | 1449 | 32.5 | 2.55 | 10.3 | 0.77 |
| 9/9/2003 | 18:30 | 9/9/2003 18:30 | 27.70 | 7.06 | 1475 | 35.6 | 2.79 | 10.3 | 0.78 |
| 9/9/2003 | 18:45 | 9/9/2003 18:45 | 27.65 | 7.05 | 1471 | 32.7 | 2.56 | 10.2 | 0.78 |
| 9/9/2003 | 19:00 | 9/9/2003 19:00 | 27.71 | 7.05 | 1495 | 34.0 | 2.66 | 10.2 | 0.79 |
| 9/9/2003 | 19:15 | 9/9/2003 19:15 | 27.66 | 7.04 | 1477 | 30.6 | 2.40 | 10.3 | 0.78 |
| 9/9/2003 | 19:30 | 9/9/2003 19:30 | 27.75 | 7.06 | 1526 | 35.1 | 2.75 | 10.3 | 0.81 |
| 9/9/2003 | 19:45 | 9/9/2003 19:45 | 27.71 | 7.04 | 1522 | 31.4 | 2.46 | 10.2 | 0.81 |
| 9/9/2003 | 20:00 | 9/9/2003 20:00 | 27.72 | 7.04 | 1528 | 30.8 | 2.41 | 10.2 | 0.81 |
| 9/9/2003 | 20:15 | 9/9/2003 20:15 | 27.74 | 7.05 | 1559 | 32.1 | 2.51 | 10.2 | 0.83 |
| 9/9/2003 | 20:30 | 9/9/2003 20:30 | 27.74 | 7.04 | 1566 | 31.8 | 2.49 | 10.2 | 0.83 |
| 9/9/2003 | 20:45 | 9/9/2003 20:45 | 27.75 | 7.04 | 1580 | 30.6 | 2.39 | 10.1 | 0.84 |
| 9/9/2003 | 21:00 | 9/9/2003 21:00 | 27.75 | 7.03 | 1601 | 29.3 | 2.29 | 10.2 | 0.85 |
| 9/9/2003 | 21:15 | 9/9/2003 21:15 | 27.73 | 7.01 | 1597 | 25.8 | 2.01 | 10.1 | 0.85 |
| 9/9/2003 | 21:30 | 9/9/2003 21:30 | 27.72 | 6.99 | 1633 | 17.4 | 1.36 | 10.3 | 0.87 |
| 9/9/2003 | 21:45 | 9/9/2003 21:45 | 27.70 | 6.96 | 1641 | 14.5 | 1.14 | 10.3 | 0.87 |
| 9/9/2003 | 22:00 | 9/9/2003 22:00 | 27.74 | 6.96 | 1718 | 12.8 | 1.00 | 10.3 | 0.91 |
| 9/9/2003 | 22:15 | 9/9/2003 22:15 | 27.75 | 6.92 | 1803 | 5.2 | 0.41 | 10.3 | 0.96 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9/9/2003 | 22:30 | 9/9/2003 22:30 | 27.77 | 6.92 | 1871 | 4.2 | 0.33 | 10.1 | 1.00 |
| 9/9/2003 | 22:45 | 9/9/2003 22:45 | 27.79 | 6.91 | 1946 | 2.8 | 0.22 | 10.1 | 1.04 |
| 9/9/2003 | 23:00 | 9/9/2003 23:00 | 27.81 | 6.91 | 2025 | 2.4 | 0.19 | 10.1 | 1.08 |
| 9/9/2003 | 23:15 | 9/9/2003 23:15 | 27.82 | 6.91 | 2093 | 3.2 | 0.25 | 10.1 | 1.12 |
| 9/9/2003 | 23:30 | 9/9/2003 23:30 | 27.83 | 6.92 | 2152 | 4.6 | 0.36 | 10.2 | 1.15 |
| 9/9/2003 | 23:45 | 9/9/2003 23:45 | 27.83 | 6.92 | 2211 | 5.5 | 0.43 | 10.2 | 1.18 |
| 9/10/2003 | 0:00 | 9/10/2003 0:00 | 27.83 | 6.92 | 2248 | 5.3 | 0.42 | 10.1 | 1.20 |
| 9/10/2003 | 0:15 | 9/10/2003 0:15 | 27.82 | 6.92 | 2295 | 5.2 | 0.41 | 10.2 | 1.23 |
| 9/10/2003 | 0:30 | 9/10/2003 0:30 | 27.80 | 6.92 | 2321 | 5.7 | 0.44 | 10.2 | 1.25 |
| 9/10/2003 | 0:45 | 9/10/2003 0:45 | 27.78 | 6.91 | 2330 | 4.6 | 0.36 | 10.1 | 1.25 |
| 9/10/2003 | 1:00 | 9/10/2003 1:00 | 27.76 | 6.91 | 2351 | 4.7 | 0.36 | 10.2 | 1.26 |
| 9/10/2003 | 1:15 | 9/10/2003 1:15 | 27.73 | 6.91 | 2358 | 4.4 | 0.35 | 10.1 | 1.27 |
| 9/10/2003 | 1:30 | 9/10/2003 1:30 | 27.71 | 6.92 | 2361 | 5.1 | 0.40 | 10.2 | 1.27 |
| 9/10/2003 | 1:45 | 9/10/2003 1:45 | 27.70 | 6.92 | 2370 | 5.3 | 0.42 | 10.1 | 1.27 |
| 9/10/2003 | 2:00 | 9/10/2003 2:00 | 27.69 | 6.92 | 2383 | 6.2 | 0.49 | 10.2 | 1.28 |
| 9/10/2003 | 2:15 | 9/10/2003 2:15 | 27.70 | 6.92 | 2421 | 7.8 | 0.61 | 10.2 | 1.30 |
| 9/10/2003 | 2:30 | 9/10/2003 2:30 | 27.73 | 6.93 | 2473 | 9.1 | 0.71 | 10.1 | 1.33 |
| 9/10/2003 | 2:45 | 9/10/2003 2:45 | 27.75 | 6.93 | 2524 | 10.2 | 0.79 | 10.2 | 1.36 |
| 9/10/2003 | 3:00 | 9/10/2003 3:00 | 27.78 | 6.94 | 2567 | 11.4 | 0.89 | 10.3 | 1.38 |
| 9/10/2003 | 3:15 | 9/10/2003 3:15 | 27.80 | 6.94 | 2617 | 12.1 | 0.94 | 10.3 | 1.41 |
| 9/10/2003 | 3:30 | 9/10/2003 3:30 | 27.82 | 6.94 | 2651 | 11.9 | 0.92 | 10.1 | 1.43 |
| 9/10/2003 | 3:45 | 9/10/2003 3:45 | 27.87 | 6.95 | 2716 | 13.1 | 1.02 | 10.2 | 1.46 |
| 9/10/2003 | 4:00 | 9/10/2003 4:00 | 27.89 | 6.95 | 2755 | 14.4 | 1.11 | 10.1 | 1.48 |
| 9/10/2003 | 4:15 | 9/10/2003 4:15 | 27.91 | 6.95 | 2784 | 14.3 | 1.11 | 10.1 | 1.50 |
| 9/10/2003 | 4:30 | 9/10/2003 4:30 | 27.93 | 6.95 | 2823 | 13.7 | 1.06 | 10.1 | 1.52 |
| 9/10/2003 | 4:45 | 9/10/2003 4:45 | 27.96 | 6.95 | 2867 | 14.0 | 1.09 | 10.2 | 1.55 |
| 9/10/2003 | 5:00 | 9/10/2003 5:00 | 27.98 | 6.96 | 2918 | 13.4 | 1.04 | 10.1 | 1.58 |
| 9/10/2003 | 5:15 | 9/10/2003 5:15 | 28.02 | 6.96 | 2974 | 13.7 | 1.06 | 10.3 | 1.61 |
| 9/10/2003 | 5:30 | 9/10/2003 5:30 | 28.05 | 6.96 | 3030 | 13.3 | 1.03 | 10.2 | 1.64 |
| 9/10/2003 | 5:45 | 9/10/2003 5:45 | 28.08 | 6.96 | 3097 | 13.0 | 1.00 | 10.1 | 1.67 |
| 9/10/2003 | 6:00 | 9/10/2003 6:00 | 28.11 | 6.96 | 3154 | 12.9 | 0.99 | 10.1 | 1.71 |
| 9/10/2003 | 6:15 | 9/10/2003 6:15 | 28.05 | 6.96 | 3042 | 12.3 | 0.95 | 10.3 | 1.64 |
| 9/10/2003 | 6:30 | 9/10/2003 6:30 | 27.94 | 6.95 | 2878 | 10.9 | 0.85 | 10.2 | 1.55 |
| 9/10/2003 | 6:45 | 9/10/2003 6:45 | 27.63 | 6.94 | 2505 | 9.0 | 0.70 | 10.1 | 1.35 |
| 9/10/2003 | 7:00 | 9/10/2003 7:00 | 27.37 | 6.96 | 2078 | 12.8 | 1.01 | 10.1 | 1.11 |
| 9/10/2003 | 7:15 | 9/10/2003 7:15 | 27.15 | 6.99 | 1677 | 17.5 | 1.38 | 10.1 | 0.89 |
| 9/10/2003 | 7:30 | 9/10/2003 7:30 | 27.02 | 7.01 | 1482 | 21.3 | 1.69 | 10.2 | 0.79 |
| 9/10/2003 | 7:45 | 9/10/2003 7:45 | 26.98 | 7.01 | 1524 | 20.6 | 1.64 | 10.3 | 0.81 |
| 9/10/2003 | 8:00 | 9/10/2003 8:00 | 26.99 | 7.00 | 1544 | 19.8 | 1.57 | 10.3 | 0.82 |
| 9/10/2003 | 8:15 | 9/10/2003 8:15 | 26.98 | 7.00 | 1514 | 20.2 | 1.60 | 10.1 | 0.80 |
| 9/10/2003 | 8:30 | 9/10/2003 8:30 | 26.97 | 7.01 | 1508 | 20.3 | 1.61 | 10.2 | 0.80 |
| 9/10/2003 | 8:45 | 9/10/2003 8:45 | 26.98 | 7.01 | 1467 | 20.5 | 1.63 | 10.2 | 0.78 |
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| 9/10/2003 | 9:15 | 9/10/2003 9:15 | 26.98 | 7.00 | 1450 | 20.0 | 1.58 | 10.1 | 0.77 |
| 9/10/2003 | 9:30 | 9/10/2003 9:30 | 26.96 | 7.01 | 1428 | 21.4 | 1.70 | 10.2 | 0.76 |
| 9/10/2003 | 9:45 | 9/10/2003 9:45 | 26.97 | 7.00 | 1432 | 20.2 | 1.60 | 10.1 | 0.76 |
| 9/10/2003 | 10:00 | 9/10/2003 10:00 | 26.97 | 7.00 | 1426 | 19.4 | 1.54 | 10.1 | 0.75 |
| 9/10/2003 | 10:15 | 9/10/2003 10:15 | 26.96 | 7.00 | 1487 | 19.1 | 1.51 | 10.1 | 0.79 |
| 9/10/2003 | 10:30 | 9/10/2003 10:30 | 26.96 | 7.00 | 1513 | 19.5 | 1.54 | 10.1 | 0.80 |
| 9/10/2003 | 10:45 | 9/10/2003 10:45 | 26.95 | 6.99 | 1522 | 19.0 | 1.51 | 10.1 | 0.81 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9/10/2003 | 11:00 | 9/10/2003 11:00 | 26.95 | 6.99 | 1526 | 18.7 | 1.49 | 10.2 | 0.81 |
| 9/10/2003 | 11:15 | 9/10/2003 11:15 | 26.95 | 6.99 | 1528 | 17.9 | 1.42 | 10.1 | 0.81 |
| 9/10/2003 | 11:30 | 9/10/2003 11:30 | 26.94 | 6.99 | 1539 | 17.2 | 1.36 | 10.1 | 0.82 |
| 9/10/2003 | 11:45 | 9/10/2003 11:45 | 26.94 | 6.99 | 1553 | 18.2 | 1.45 | 10.1 | 0.82 |
| 9/10/2003 | 12:00 | 9/10/2003 12:00 | 26.95 | 6.99 | 1567 | 18.3 | 1.45 | 10.1 | 0.83 |
| 9/10/2003 | 12:15 | 9/10/2003 12:15 | 26.96 | 6.99 | 1576 | 18.6 | 1.47 | 10.1 | 0.84 |
| 9/10/2003 | 12:30 | 9/10/2003 12:30 | 26.96 | 6.98 | 1573 | 16.8 | 1.34 | 10.2 | 0.84 |
| 9/10/2003 | 12:45 | 9/10/2003 12:45 | 26.98 | 6.99 | 1596 | 19.0 | 1.50 | 10.1 | 0.85 |
| 9/10/2003 | 13:00 | 9/10/2003 13:00 | 26.98 | 6.98 | 1584 | 16.7 | 1.32 | 10.2 | 0.84 |
| 9/10/2003 | 13:15 | 9/10/2003 13:15 | 26.99 | 6.99 | 1616 | 17.3 | 1.37 | 10.2 | 0.86 |
| 9/10/2003 | 13:30 | 9/10/2003 13:30 | 26.99 | 6.99 | 1621 | 17.1 | 1.35 | 10.1 | 0.86 |
| 9/10/2003 | 13:45 | 9/10/2003 13:45 | 26.99 | 6.98 | 1621 | 17.0 | 1.35 | 10.1 | 0.86 |
| 9/10/2003 | 14:00 | 9/10/2003 14:00 | 27.00 | 6.98 | 1624 | 16.3 | 1.29 | 10.3 | 0.86 |
| 9/10/2003 | 14:15 | 9/10/2003 14:15 | 27.01 | 6.97 | 1641 | 13.9 | 1.10 | 10.2 | 0.87 |
| 9/10/2003 | 14:30 | 9/10/2003 14:30 | 27.02 | 6.97 | 1701 | 11.3 | 0.89 | 10.1 | 0.90 |
| 9/10/2003 | 14:45 | 9/10/2003 14:45 | 27.01 | 6.98 | 1624 | 15.7 | 1.24 | 10.1 | 0.86 |
| 9/10/2003 | 15:00 | 9/10/2003 15:00 | 27.02 | 6.98 | 1680 | 11.8 | 0.93 | 10.1 | 0.89 |
| 9/10/2003 | 15:15 | 9/10/2003 15:15 | 26.99 | 6.97 | 1685 | 12.2 | 0.97 | 10.2 | 0.90 |
| 9/10/2003 | 15:30 | 9/10/2003 15:30 | 26.97 | 6.97 | 1683 | 10.2 | 0.81 | 10.1 | 0.90 |
| 9/10/2003 | 15:45 | 9/10/2003 15:45 | 26.94 | 6.96 | 1672 | 11.1 | 0.88 | 10.1 | 0.89 |
| 9/10/2003 | 16:00 | 9/10/2003 16:00 | 26.89 | 6.94 | 1696 | 9.2 | 0.73 | 10.1 | 0.90 |
| 9/10/2003 | 16:15 | 9/10/2003 16:15 | 26.90 | 6.94 | 1764 | 6.7 | 0.53 | 10.1 | 0.94 |
| 9/10/2003 | 16:30 | 9/10/2003 16:30 | 27.10 | 6.93 | 1972 | 6.2 | 0.49 | 10.2 | 1.05 |
| 9/10/2003 | 16:45 | 9/10/2003 16:45 | 27.16 | 6.93 | 2049 | 6.5 | 0.51 | 10.2 | 1.10 |
| 9/10/2003 | 17:00 | 9/10/2003 17:00 | 27.24 | 6.93 | 2091 | 4.9 | 0.39 | 10.2 | 1.12 |
| 9/10/2003 | 17:15 | 9/10/2003 17:15 | 27.31 | 6.92 | 2246 | 4.0 | 0.32 | 10.1 | 1.20 |
| 9/10/2003 | 17:30 | 9/10/2003 17:30 | 27.37 | 6.92 | 2255 | 3.3 | 0.26 | 10.2 | 1.21 |
| 9/10/2003 | 17:45 | 9/10/2003 17:45 | 27.42 | 6.91 | 2424 | 2.9 | 0.23 | 10.2 | 1.30 |
| 9/10/2003 | 18:00 | 9/10/2003 18:00 | 27.49 | 6.91 | 2494 | 2.5 | 0.20 | 10.2 | 1.34 |
| 9/10/2003 | 18:15 | 9/10/2003 18:15 | 27.49 | 6.91 | 2495 | 2.5 | 0.19 | 10.1 | 1.34 |
| 9/10/2003 | 18:30 | 9/10/2003 18:30 | 27.48 | 6.93 | 2432 | 3.3 | 0.26 | 10.2 | 1.31 |
| 9/10/2003 | 18:45 | 9/10/2003 18:45 | 27.50 | 6.92 | 2494 | 4.4 | 0.34 | 10.2 | 1.34 |
| 9/10/2003 | 19:00 | 9/10/2003 19:00 | 27.47 | 6.93 | 2327 | 4.7 | 0.37 | 10.1 | 1.25 |
| 9/10/2003 | 19:15 | 9/10/2003 19:15 | 27.55 | 6.93 | 2564 | 4.8 | 0.38 | 10.1 | 1.38 |
| 9/10/2003 | 19:30 | 9/10/2003 19:30 | 27.58 | 6.92 | 2643 | 3.5 | 0.28 | 10.1 | 1.42 |
| 9/10/2003 | 19:45 | 9/10/2003 19:45 | 27.57 | 6.92 | 2570 | 4.1 | 0.32 | 10.2 | 1.38 |
| 9/10/2003 | 20:00 | 9/10/2003 20:00 | 27.67 | 6.92 | 2871 | 3.4 | 0.27 | 10.1 | 1.55 |
| 9/10/2003 | 20:15 | 9/10/2003 20:15 | 27.73 | 6.92 | 3020 | 2.1 | 0.17 | 10.1 | 1.63 |
| 9/10/2003 | 20:30 | 9/10/2003 20:30 | 27.73 | 6.92 | 3044 | 2.4 | 0.19 | 10.2 | 1.65 |
| 9/10/2003 | 20:45 | 9/10/2003 20:45 | 27.73 | 6.92 | 3086 | 2.5 | 0.20 | 10.1 | 1.67 |
| 9/10/2003 | 21:00 | 9/10/2003 21:00 | 27.80 | 6.92 | 3234 | 2.3 | 0.18 | 10.1 | 1.75 |
| 9/10/2003 | 21:15 | 9/10/2003 21:15 | 27.79 | 6.93 | 3196 | 2.1 | 0.16 | 10.1 | 1.73 |
| 9/10/2003 | 21:30 | 9/10/2003 21:30 | 27.82 | 6.93 | 3256 | 2.7 | 0.21 | 10.1 | 1.76 |
| 9/10/2003 | 21:45 | 9/10/2003 21:45 | 27.85 | 6.93 | 3320 | 1.7 | 0.13 | 10.1 | 1.80 |
| 9/10/2003 | 22:00 | 9/10/2003 22:00 | 27.84 | 6.94 | 3290 | 2.3 | 0.18 | 10.1 | 1.78 |
| 9/10/2003 | 22:15 | 9/10/2003 22:15 | 27.85 | 6.94 | 3396 | 2.9 | 0.22 | 10.1 | 1.84 |
| 9/10/2003 | 22:30 | 9/10/2003 22:30 | 27.86 | 6.93 | 3435 | 1.6 | 0.13 | 10.2 | 1.86 |
| 9/10/2003 | 22:45 | 9/10/2003 22:45 | 27.84 | 6.96 | 3347 | 3.0 | 0.23 | 10.1 | 1.81 |
| 9/10/2003 | 23:00 | 9/10/2003 23:00 | 27.86 | 6.93 | 3457 | 3.4 | 0.27 | 10.2 | 1.88 |
| 9/10/2003 | 23:15 | 9/10/2003 23:15 | 27.88 | 6.95 | 3519 | 2.1 | 0.17 | 10.2 | 1.91 |

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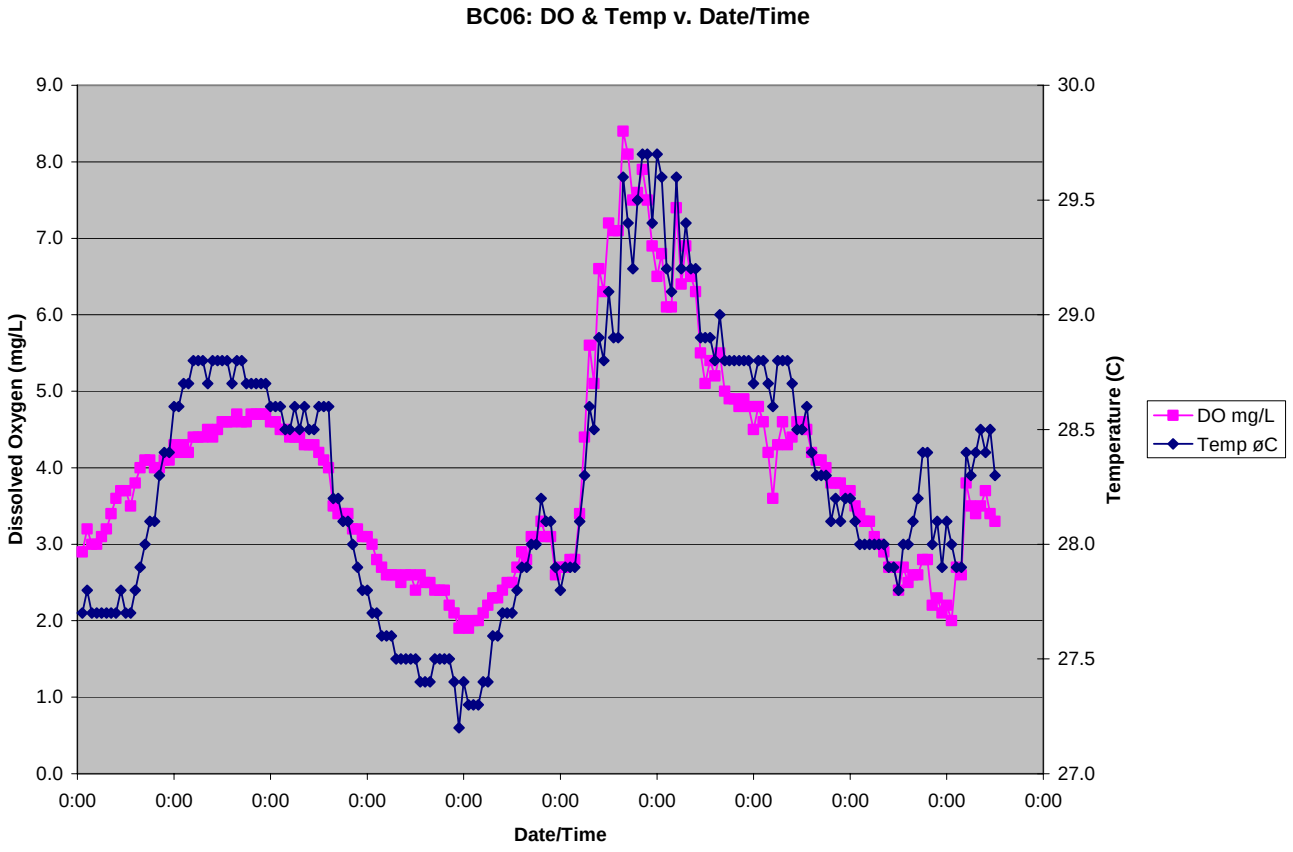
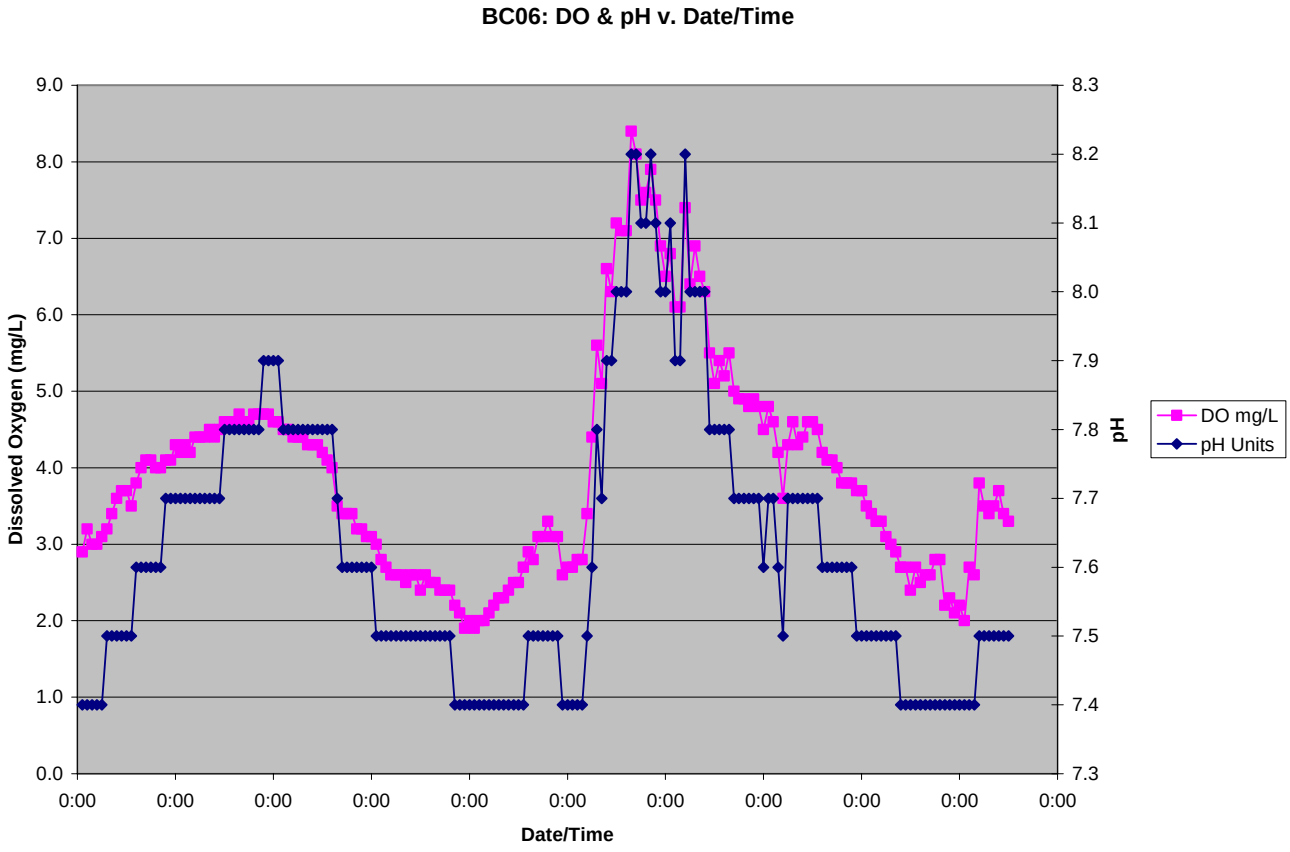
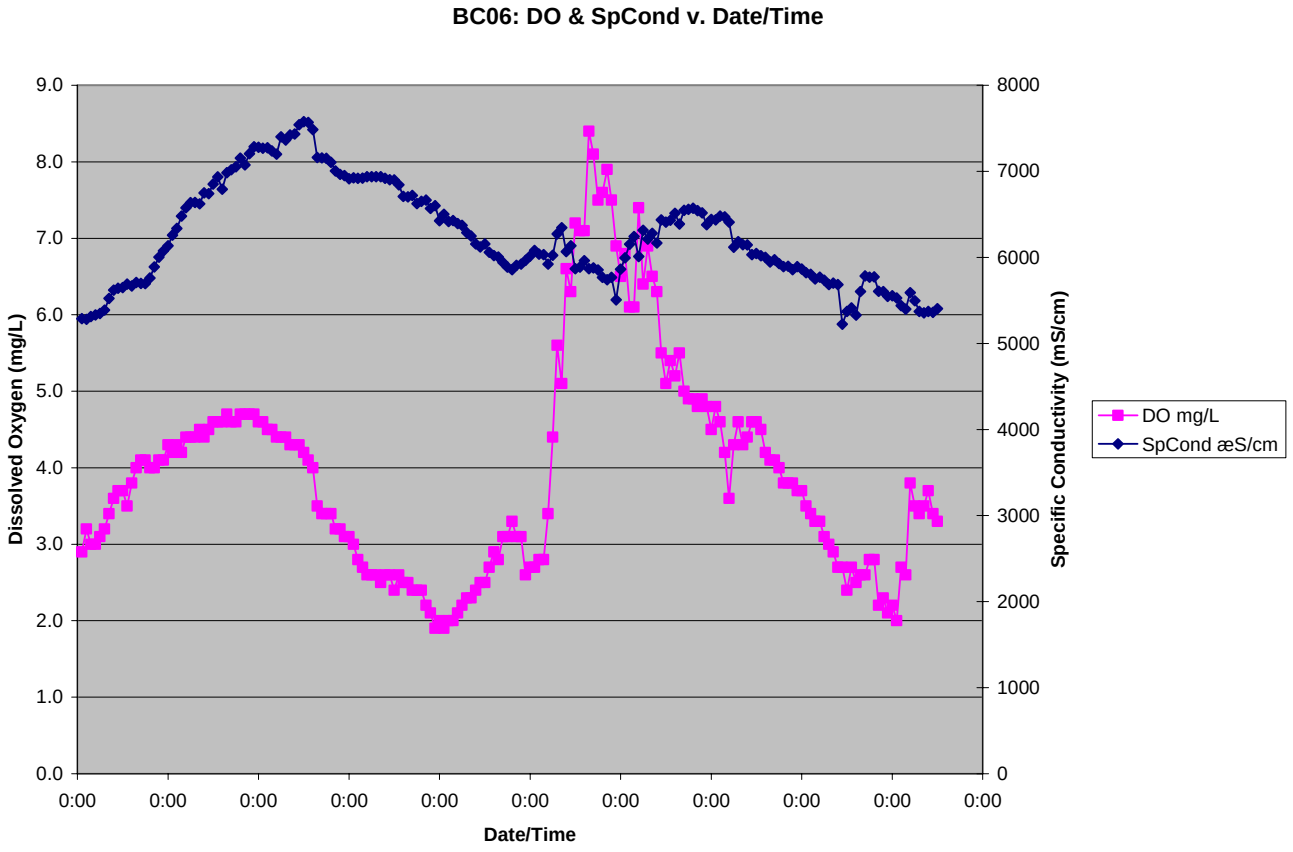
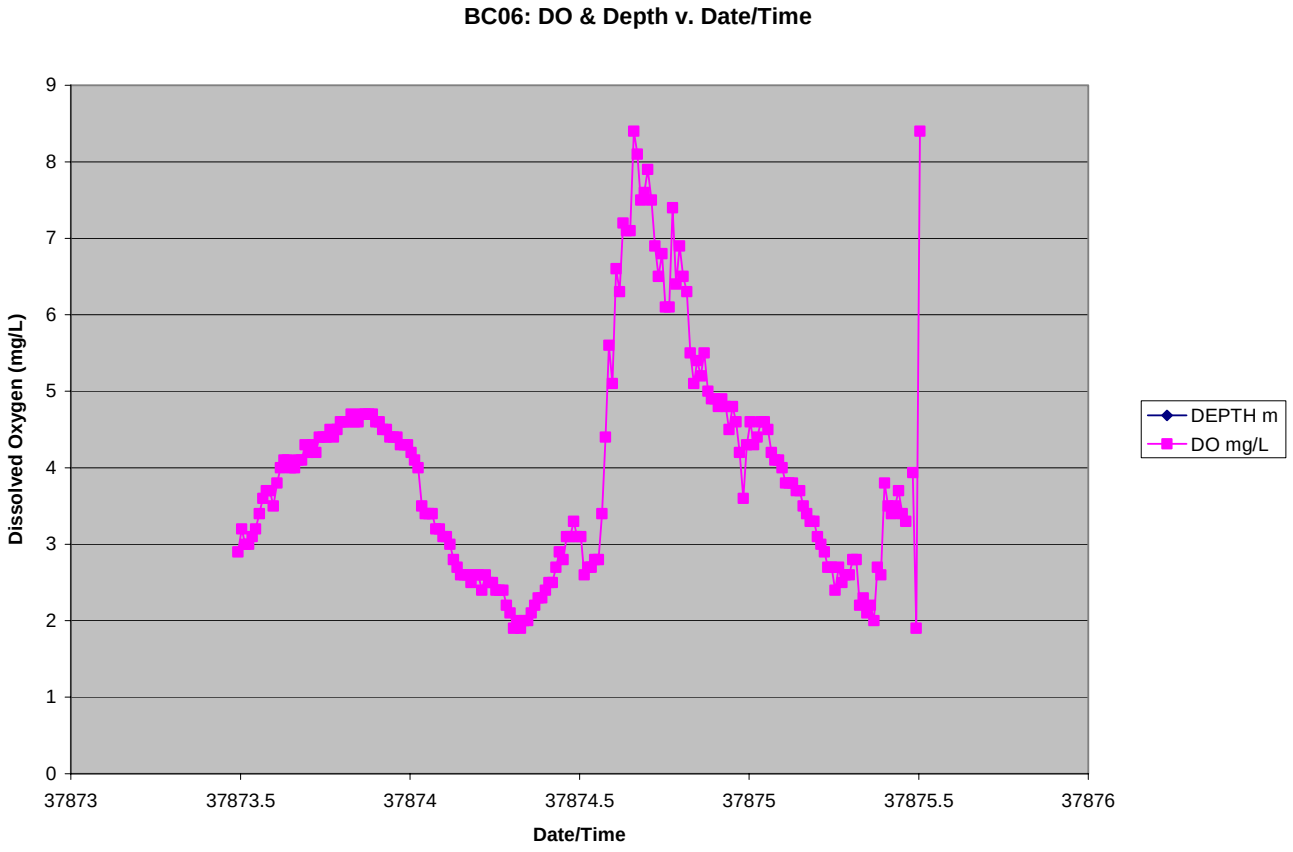
|---|---|---|---|---|---|---|---|---|---|
| 9/10/2003 | 23:30 | 9/10/2003 23:30 | 27.86 | 6.95 | 3487 | 4.3 | 0.33 | 10.1 | 1.89 |
| 9/10/2003 | 23:45 | 9/10/2003 23:45 | 27.87 | 6.94 | 3566 | 3.1 | 0.24 | 10.2 | 1.94 |
| 9/11/2003 | 0:00 | 9/11/2003 0:00 | 27.88 | 6.94 | 3623 | 2.3 | 0.18 | 10.1 | 1.97 |
| 9/11/2003 | 0:15 | 9/11/2003 0:15 | 27.86 | 6.95 | 3530 | 1.9 | 0.15 | 10.1 | 1.92 |
| 9/11/2003 | 0:30 | 9/11/2003 0:30 | 27.85 | 6.94 | 3531 | 2.2 | 0.17 | 10.1 | 1.92 |
| 9/11/2003 | 0:45 | 9/11/2003 0:45 | 27.87 | 6.95 | 3538 | 3.6 | 0.28 | 10.1 | 1.92 |
| 9/11/2003 | 1:00 | 9/11/2003 1:00 | 27.87 | 6.95 | 3482 | 4.9 | 0.38 | 10.1 | 1.89 |
| 9/11/2003 | 1:15 | 9/11/2003 1:15 | 27.89 | 6.95 | 3564 | 3.5 | 0.27 | 10.1 | 1.94 |
| 9/11/2003 | 1:30 | 9/11/2003 1:30 | 27.89 | 6.95 | 3593 | 4.8 | 0.37 | 10.2 | 1.95 |
| 9/11/2003 | 1:45 | 9/11/2003 1:45 | 27.87 | 6.94 | 3604 | 2.5 | 0.19 | 10.1 | 1.96 |
| 9/11/2003 | 2:00 | 9/11/2003 2:00 | 27.86 | 6.94 | 3558 | 2.5 | 0.20 | 10.1 | 1.93 |
| 9/11/2003 | 2:15 | 9/11/2003 2:15 | 27.89 | 6.95 | 3635 | 4.2 | 0.32 | 10.2 | 1.97 |
| 9/11/2003 | 2:30 | 9/11/2003 2:30 | 27.88 | 6.94 | 3636 | 3.0 | 0.23 | 10.1 | 1.98 |
| 9/11/2003 | 2:45 | 9/11/2003 2:45 | 27.94 | 6.96 | 3639 | 5.6 | 0.43 | 10.1 | 1.98 |
| 9/11/2003 | 3:00 | 9/11/2003 3:00 | 27.94 | 6.96 | 3663 | 6.4 | 0.49 | 10.1 | 1.99 |
| 9/11/2003 | 3:15 | 9/11/2003 3:15 | 27.90 | 6.94 | 3688 | 3.4 | 0.26 | 10.2 | 2.00 |
| 9/11/2003 | 3:30 | 9/11/2003 3:30 | 27.89 | 6.94 | 3600 | 2.5 | 0.19 | 10.1 | 1.96 |
| 9/11/2003 | 3:45 | 9/11/2003 3:45 | 27.92 | 6.94 | 3643 | 4.4 | 0.34 | 10.1 | 1.98 |
| 9/11/2003 | 4:00 | 9/11/2003 4:00 | 27.99 | 6.97 | 3676 | 7.1 | 0.54 | 10.1 | 2.00 |
| 9/11/2003 | 4:15 | 9/11/2003 4:15 | 27.96 | 6.96 | 3660 | 4.9 | 0.38 | 10.1 | 1.99 |
| 9/11/2003 | 4:30 | 9/11/2003 4:30 | 27.95 | 6.95 | 3635 | 6.0 | 0.46 | 10.1 | 1.97 |
| 9/11/2003 | 4:45 | 9/11/2003 4:45 | 27.97 | 6.96 | 3691 | 6.2 | 0.48 | 10.1 | 2.01 |
| 9/11/2003 | 5:00 | 9/11/2003 5:00 | 27.92 | 6.94 | 3651 | 4.2 | 0.32 | 10.1 | 1.98 |
| 9/11/2003 | 5:15 | 9/11/2003 5:15 | 27.99 | 6.95 | 3689 | 5.6 | 0.43 | 10.1 | 2.01 |
| 9/11/2003 | 5:30 | 9/11/2003 5:30 | 27.97 | 6.95 | 3707 | 3.9 | 0.30 | 10.1 | 2.02 |
| 9/11/2003 | 5:45 | 9/11/2003 5:45 | 27.96 | 6.94 | 3704 | 4.8 | 0.37 | 10.1 | 2.01 |
| 9/11/2003 | 6:00 | 9/11/2003 6:00 | 28.03 | 6.95 | 3801 | 7.1 | 0.54 | 10.1 | 2.07 |
| 9/11/2003 | 6:15 | 9/11/2003 6:15 | 27.92 | 6.93 | 3670 | 3.1 | 0.24 | 10.2 | 1.99 |
| 9/11/2003 | 6:30 | 9/11/2003 6:30 | 27.89 | 6.92 | 3567 | 4.0 | 0.31 | 10.0 | 1.94 |
| 9/11/2003 | 6:45 | 9/11/2003 6:45 | 27.90 | 6.93 | 3528 | 4.6 | 0.36 | 10.0 | 1.92 |
| 9/11/2003 | 7:00 | 9/11/2003 7:00 | 27.75 | 6.95 | 3048 | 8.4 | 0.66 | 10.1 | 1.65 |
| 9/11/2003 | 7:15 | 9/11/2003 7:15 | 27.53 | 6.99 | 2453 | 14.9 | 1.16 | 10.1 | 1.32 |
| 9/11/2003 | 7:30 | 9/11/2003 7:30 | 27.44 | 7.01 | 2155 | 17.8 | 1.40 | 10.1 | 1.15 |
| 9/11/2003 | 7:45 | 9/11/2003 7:45 | 27.38 | 7.03 | 2009 | 21.6 | 1.70 | 10.1 | 1.07 |
| 9/11/2003 | 8:00 | 9/11/2003 8:00 | 27.31 | 7.07 | 1802 | 27.2 | 2.14 | 10.1 | 0.96 |
| 9/11/2003 | 8:15 | 9/11/2003 8:15 | 27.31 | 7.07 | 1792 | 27.3 | 2.15 | 10.1 | 0.95 |
| 9/11/2003 | 8:30 | 9/11/2003 8:30 | 27.32 | 7.07 | 1775 | 28.2 | 2.22 | 10.1 | 0.95 |
| 9/11/2003 | 8:45 | 9/11/2003 8:45 | 27.32 | 7.06 | 1771 | 28.1 | 2.21 | 10.0 | 0.94 |
| 9/11/2003 | 9:00 | 9/11/2003 9:00 | 27.30 | 7.07 | 1736 | 28.2 | 2.22 | 10.1 | 0.92 |
| 9/11/2003 | 9:15 | 9/11/2003 9:15 | 27.30 | 7.07 | 1723 | 27.3 | 2.15 | 10.1 | 0.92 |
| 9/11/2003 | 9:30 | 9/11/2003 9:30 | 27.29 | 7.07 | 1693 | 29.0 | 2.28 | 10.1 | 0.90 |
| 9/11/2003 | 9:45 | 9/11/2003 9:45 | 27.27 | 7.08 | 1670 | 30.3 | 2.39 | 10.1 | 0.89 |
| 9/11/2003 | 10:00 | 9/11/2003 10:00 | 27.29 | 7.07 | 1712 | 27.3 | 2.15 | 10.0 | 0.91 |
| 9/11/2003 | 10:15 | 9/11/2003 10:15 | 27.30 | 7.07 | 1751 | 25.8 | 2.03 | 10.1 | 0.93 |
| 9/11/2003 | 10:30 | 9/11/2003 10:30 | 27.31 | 7.05 | 1751 | 25.0 | 1.97 | 10.1 | 0.93 |
| 9/11/2003 | 10:45 | 9/11/2003 10:45 | 27.29 | 7.07 | 1716 | 26.5 | 2.09 | 10.1 | 0.91 |
| 9/11/2003 | 11:00 | 9/11/2003 11:00 | 27.34 | 7.06 | 1777 | 27.9 | 2.20 | 10.1 | 0.95 |
| 9/11/2003 | 11:15 | 9/11/2003 11:15 | 27.36 | 7.07 | 1860 | 24.4 | 1.92 | 10.1 | 0.99 |
| 9/11/2003 | 11:30 | 9/11/2003 11:30 | 27.36 | 7.06 | 1790 | 27.8 | 2.18 | 10.1 | 0.95 |
| 9/11/2003 | 11:45 | 9/11/2003 11:45 | 27.39 | 7.03 | 1926 | 22.0 | 1.73 | 10.1 | 1.03 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9/11/2003 | 12:00 | 9/11/2003 12:00 | 27.37 | 7.05 | 1822 | 25.1 | 1.98 | 10.1 | 0.97 |
| 9/11/2003 | 12:15 | 9/11/2003 12:15 | 27.40 | 7.03 | 1904 | 22.2 | 1.75 | 10.0 | 1.02 |
| 9/11/2003 | 12:30 | 9/11/2003 12:30 | 27.38 | 7.02 | 1921 | 21.6 | 1.70 | 10.0 | 1.03 |
| | | | | | | | | | |
| **Average** | | | **27.54** | **6.98** | **2248** | **15.6** | **1.23** | **10.15** | **1.21** |
| **Minimum** | | | **26.89** | **6.91** | **1381** | **1.6** | **0.13** | **10.00** | **0.73** |
| **Maximum** | | | **28.11** | **7.08** | **3801** | **40.4** | **3.18** | **10.40** | **2.07** |


BC06: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Temperature (C)
30.0
29.5
29.0
28.5
28.0
27.5
27.0
0:00
Date/Time
DO mg/L
Temp øC


BC06: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
pH
8.3
8.2
8.1
8.0
7.9
7.8
7.7
7.6
7.5
7.4
7.3
0:00
Date/Time
DO mg/L
pH Units


BC06: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
8000
7000
6000
5000
4000
3000
2000
1000
0
0:00
DO mg/L
SpCond æS/cm


BC06: DO & Depth v. Date/Time
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
37873
37873.5
37874
37874.5
37875
37875.5
37876
Date/Time
DEPTH m
DO mg/L

# Bayou Chauvin 120507 Site BC06
# Continuous Monitoring Data

| Date_ MMDDYY | Time HHMM | Date+Time MMDDYYYY HHMM | Temp øC | pH Units | SpCond æS/cm | DO PERCENT Sat | DO mg/L | SALINITY ppt |
|---|---|---|---|---|---|---|---|---|
| 9/9/2003 | 12:50 | 9/9/2003 12:50 | 27.7 | 7.4 | 5288 | 37.4 | 2.9 | 2.9 |
| 9/9/2003 | 13:05 | 9/9/2003 13:05 | 27.8 | 7.4 | 5279 | 41.5 | 3.2 | 2.9 |
| 9/9/2003 | 13:20 | 9/9/2003 13:20 | 27.7 | 7.4 | 5312 | 39.1 | 3.0 | 2.9 |
| 9/9/2003 | 13:35 | 9/9/2003 13:35 | 27.7 | 7.4 | 5331 | 38.1 | 3.0 | 2.9 |
| 9/9/2003 | 13:50 | 9/9/2003 13:50 | 27.7 | 7.4 | 5348 | 39.5 | 3.1 | 2.9 |
| 9/9/2003 | 14:05 | 9/9/2003 14:05 | 27.7 | 7.5 | 5388 | 41.4 | 3.2 | 3.0 |
| 9/9/2003 | 14:20 | 9/9/2003 14:20 | 27.7 | 7.5 | 5524 | 44.4 | 3.4 | 3.0 |
| 9/9/2003 | 14:35 | 9/9/2003 14:35 | 27.7 | 7.5 | 5619 | 46.9 | 3.6 | 3.1 |
| 9/9/2003 | 14:50 | 9/9/2003 14:50 | 27.8 | 7.5 | 5641 | 47.7 | 3.7 | 3.1 |
| 9/9/2003 | 15:05 | 9/9/2003 15:05 | 27.7 | 7.5 | 5650 | 47.3 | 3.7 | 3.1 |
| 9/9/2003 | 15:20 | 9/9/2003 15:20 | 27.7 | 7.5 | 5691 | 45.2 | 3.5 | 3.1 |
| 9/9/2003 | 15:35 | 9/9/2003 15:35 | 27.8 | 7.6 | 5669 | 48.9 | 3.8 | 3.1 |
| 9/9/2003 | 15:50 | 9/9/2003 15:50 | 27.9 | 7.6 | 5708 | 51.9 | 4.0 | 3.2 |
| 9/9/2003 | 16:05 | 9/9/2003 16:05 | 28.0 | 7.6 | 5698 | 52.8 | 4.1 | 3.1 |
| 9/9/2003 | 16:20 | 9/9/2003 16:20 | 28.1 | 7.6 | 5695 | 53.2 | 4.1 | 3.1 |
| 9/9/2003 | 16:35 | 9/9/2003 16:35 | 28.1 | 7.6 | 5760 | 52.2 | 4.0 | 3.2 |
| 9/9/2003 | 16:50 | 9/9/2003 16:50 | 28.3 | 7.6 | 5890 | 52.5 | 4.0 | 3.3 |
| 9/9/2003 | 17:05 | 9/9/2003 17:05 | 28.4 | 7.7 | 6003 | 53.2 | 4.1 | 3.3 |
| 9/9/2003 | 17:20 | 9/9/2003 17:20 | 28.4 | 7.7 | 6075 | 54.3 | 4.1 | 3.4 |
| 9/9/2003 | 17:35 | 9/9/2003 17:35 | 28.6 | 7.7 | 6136 | 56.8 | 4.3 | 3.4 |
| 9/9/2003 | 17:50 | 9/9/2003 17:50 | 28.6 | 7.7 | 6258 | 55.6 | 4.2 | 3.5 |
| 9/9/2003 | 18:05 | 9/9/2003 18:05 | 28.7 | 7.7 | 6337 | 56.6 | 4.3 | 3.5 |
| 9/9/2003 | 18:20 | 9/9/2003 18:20 | 28.7 | 7.7 | 6480 | 55.5 | 4.2 | 3.6 |
| 9/9/2003 | 18:35 | 9/9/2003 18:35 | 28.8 | 7.7 | 6576 | 57.7 | 4.4 | 3.7 |
| 9/9/2003 | 18:50 | 9/9/2003 18:50 | 28.8 | 7.7 | 6637 | 58.3 | 4.4 | 3.7 |
| 9/9/2003 | 19:05 | 9/9/2003 19:05 | 28.8 | 7.7 | 6640 | 57.8 | 4.4 | 3.7 |
| 9/9/2003 | 19:20 | 9/9/2003 19:20 | 28.7 | 7.7 | 6623 | 59.0 | 4.5 | 3.7 |
| 9/9/2003 | 19:35 | 9/9/2003 19:35 | 28.8 | 7.7 | 6749 | 58.9 | 4.4 | 3.8 |
| 9/9/2003 | 19:50 | 9/9/2003 19:50 | 28.8 | 7.7 | 6741 | 60.2 | 4.5 | 3.7 |
| 9/9/2003 | 20:05 | 9/9/2003 20:05 | 28.8 | 7.8 | 6852 | 60.6 | 4.6 | 3.8 |
| 9/9/2003 | 20:20 | 9/9/2003 20:20 | 28.8 | 7.8 | 6936 | 61.2 | 4.6 | 3.9 |
| 9/9/2003 | 20:35 | 9/9/2003 20:35 | 28.7 | 7.8 | 6793 | 60.7 | 4.6 | 3.8 |
| 9/9/2003 | 20:50 | 9/9/2003 20:50 | 28.8 | 7.8 | 6985 | 62.1 | 4.7 | 3.9 |
| 9/9/2003 | 21:05 | 9/9/2003 21:05 | 28.8 | 7.8 | 7019 | 61.3 | 4.6 | 3.9 |
| 9/9/2003 | 21:20 | 9/9/2003 21:20 | 28.7 | 7.8 | 7054 | 61.2 | 4.6 | 3.9 |
| 9/9/2003 | 21:35 | 9/9/2003 21:35 | 28.7 | 7.8 | 7154 | 61.9 | 4.7 | 4.0 |
| 9/9/2003 | 21:50 | 9/9/2003 21:50 | 28.7 | 7.8 | 7075 | 61.7 | 4.7 | 3.9 |
| 9/9/2003 | 22:05 | 9/9/2003 22:05 | 28.7 | 7.9 | 7205 | 62.5 | 4.7 | 4.0 |
| 9/9/2003 | 22:20 | 9/9/2003 22:20 | 28.7 | 7.9 | 7285 | 62.5 | 4.7 | 4.1 |
| 9/9/2003 | 22:35 | 9/9/2003 22:35 | 28.6 | 7.9 | 7281 | 61.5 | 4.6 | 4.1 |
| 9/9/2003 | 22:50 | 9/9/2003 22:50 | 28.6 | 7.9 | 7270 | 60.5 | 4.6 | 4.1 |
| 9/9/2003 | 23:05 | 9/9/2003 23:05 | 28.6 | 7.8 | 7275 | 59.5 | 4.5 | 4.1 |
| 9/9/2003 | 23:20 | 9/9/2003 23:20 | 28.5 | 7.8 | 7236 | 59.0 | 4.5 | 4.0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 9/9/2003 | 23:35 | 9/9/2003 23:35 | 28.5 | 7.8 | 7200 | 58.1 | 4.4 | 4.0 |
| 9/9/2003 | 23:50 | 9/9/2003 23:50 | 28.6 | 7.8 | 7401 | 58.6 | 4.4 | 4.1 |
| 9/10/2003 | 0:05 | 9/10/2003 00:05 | 28.5 | 7.8 | 7363 | 58.0 | 4.4 | 4.1 |
| 9/10/2003 | 0:20 | 9/10/2003 00:20 | 28.6 | 7.8 | 7423 | 57.2 | 4.3 | 4.1 |
| 9/10/2003 | 0:35 | 9/10/2003 00:35 | 28.5 | 7.8 | 7434 | 57.1 | 4.3 | 4.1 |
| 9/10/2003 | 0:50 | 9/10/2003 00:50 | 28.5 | 7.8 | 7542 | 56.3 | 4.3 | 4.2 |
| 9/10/2003 | 1:05 | 9/10/2003 01:05 | 28.6 | 7.8 | 7576 | 55.7 | 4.2 | 4.2 |
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| 9/10/2003 | 13:35 | 9/10/2003 13:35 | 27.8 | 7.4 | 6017 | 34.5 | 2.7 | 3.3 |
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| 9/10/2003 | 14:50 | 9/10/2003 14:50 | 28.3 | 7.6 | 6024 | 57.5 | 4.4 | 3.3 |
| 9/10/2003 | 15:05 | 9/10/2003 15:05 | 28.6 | 7.8 | 6273 | 73.5 | 5.6 | 3.5 |
| 9/10/2003 | 15:20 | 9/10/2003 15:20 | 28.5 | 7.7 | 6344 | 66.8 | 5.1 | 3.5 |
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| 9/10/2003 | 16:05 | 9/10/2003 16:05 | 29.1 | 8.0 | 5867 | 95.5 | 7.2 | 3.2 |
| 9/10/2003 | 16:20 | 9/10/2003 16:20 | 28.9 | 8.0 | 5886 | 94.5 | 7.1 | 3.3 |
| 9/10/2003 | 16:35 | 9/10/2003 16:35 | 28.9 | 8.0 | 5961 | 94.4 | 7.1 | 3.3 |
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| 9/10/2003 | 19:50 | 9/10/2003 19:50 | 29.2 | 8.0 | 6315 | 85.9 | 6.4 | 3.5 |
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| 9/10/2003 | 22:50 | 9/10/2003 22:50 | 28.8 | 7.7 | 6545 | 64.0 | 4.8 | 3.6 |
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| 9/11/2003 | 7:05 | 9/11/2003 07:05 | 27.8 | 7.4 | 5371 | 31.3 | 2.4 | 3.0 |
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| 9/11/2003 | 7:50 | 9/11/2003 07:50 | 28.1 | 7.4 | 5603 | 33.6 | 2.6 | 3.1 |
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| **Average** | | | **28.3** | **7.6** | **6250.4** | **51.8** | **3.9** | **3.5** |
| **Minimum** | | | **27.2** | **7.4** | **5223.0** | **24.2** | **1.9** | **2.9** |

| | | | | | | |
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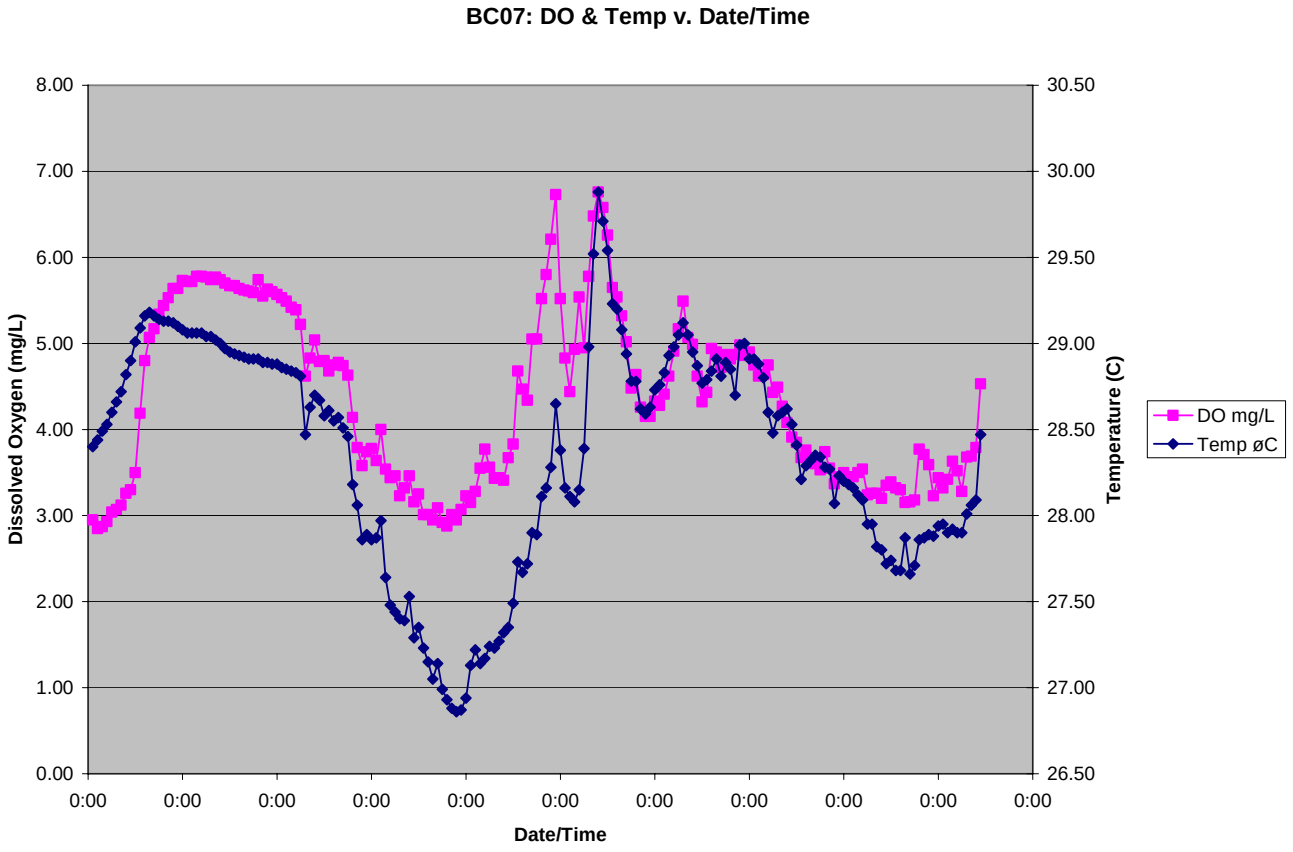
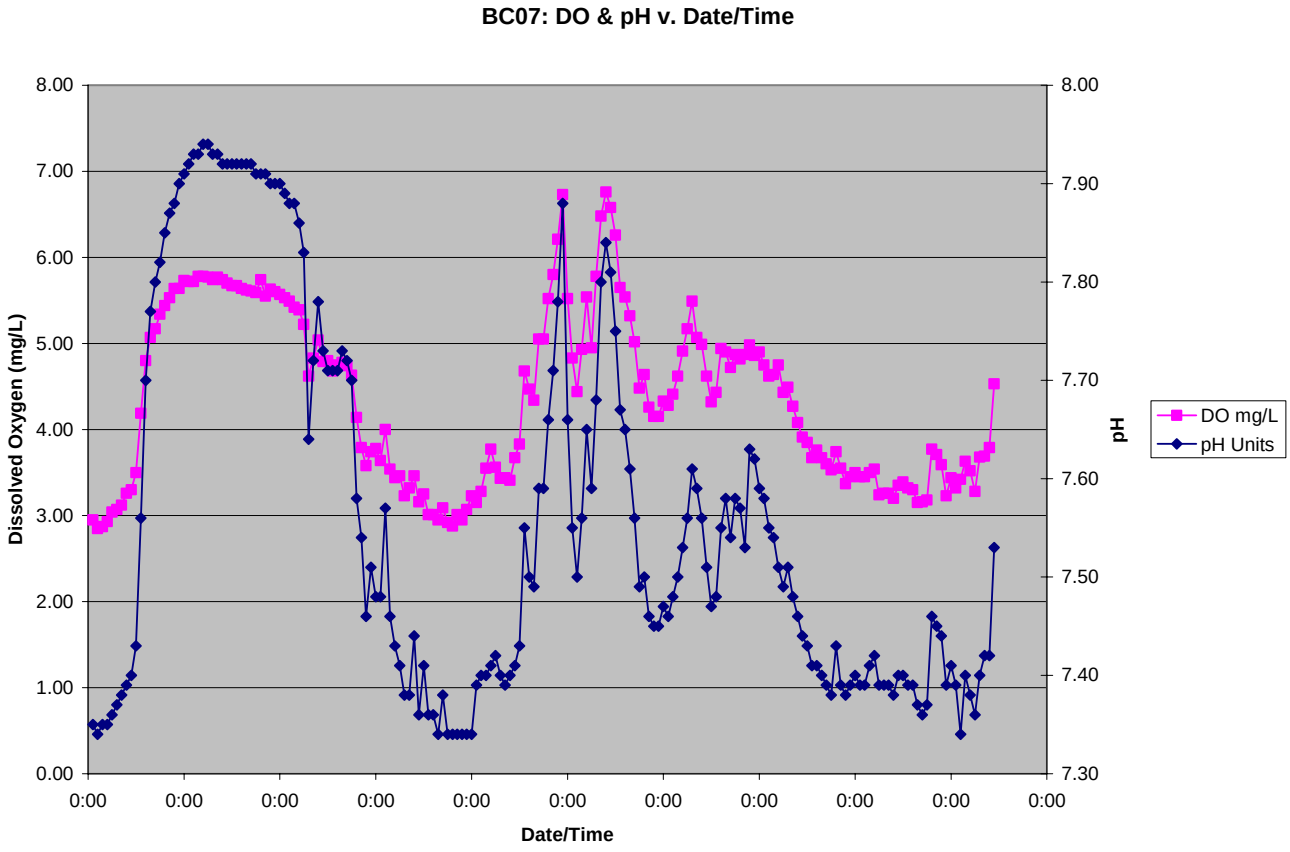
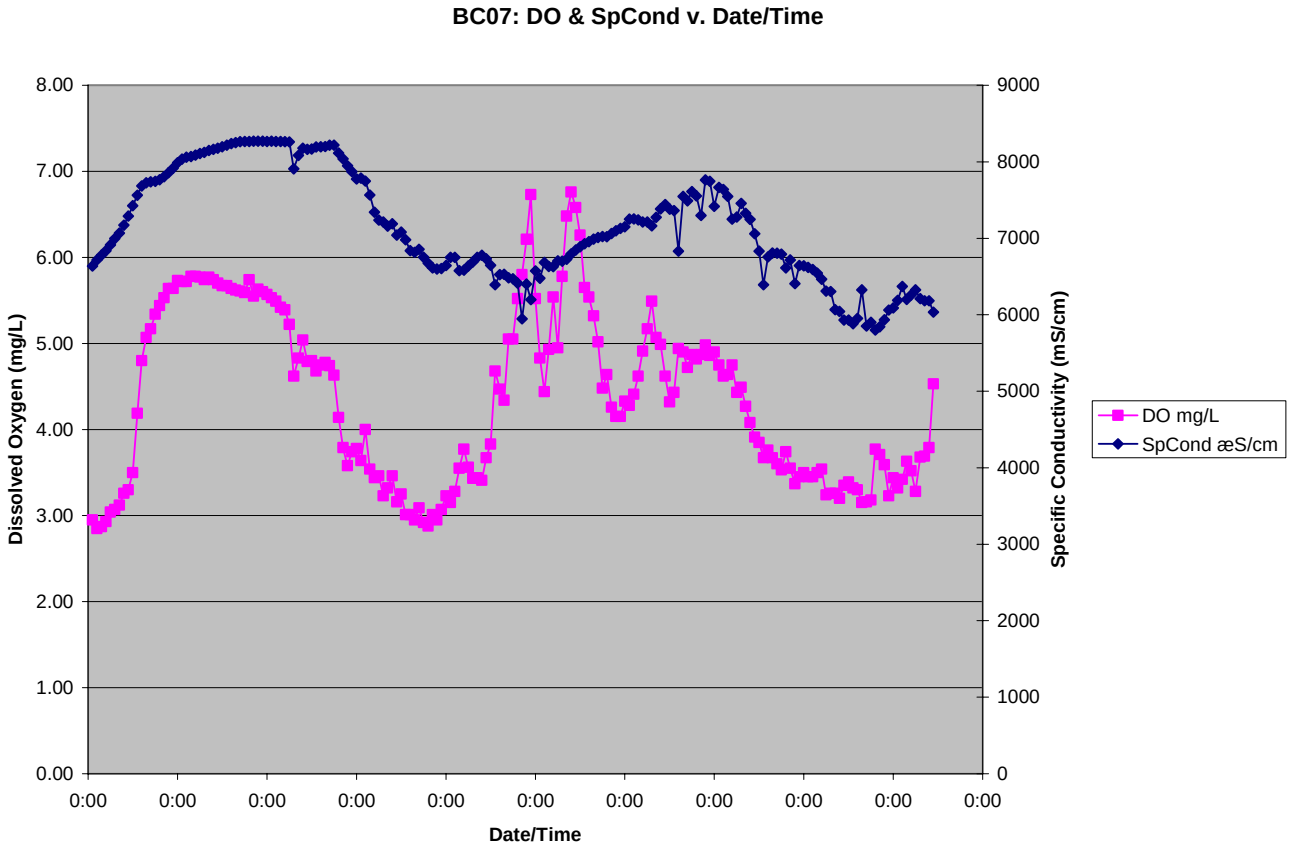
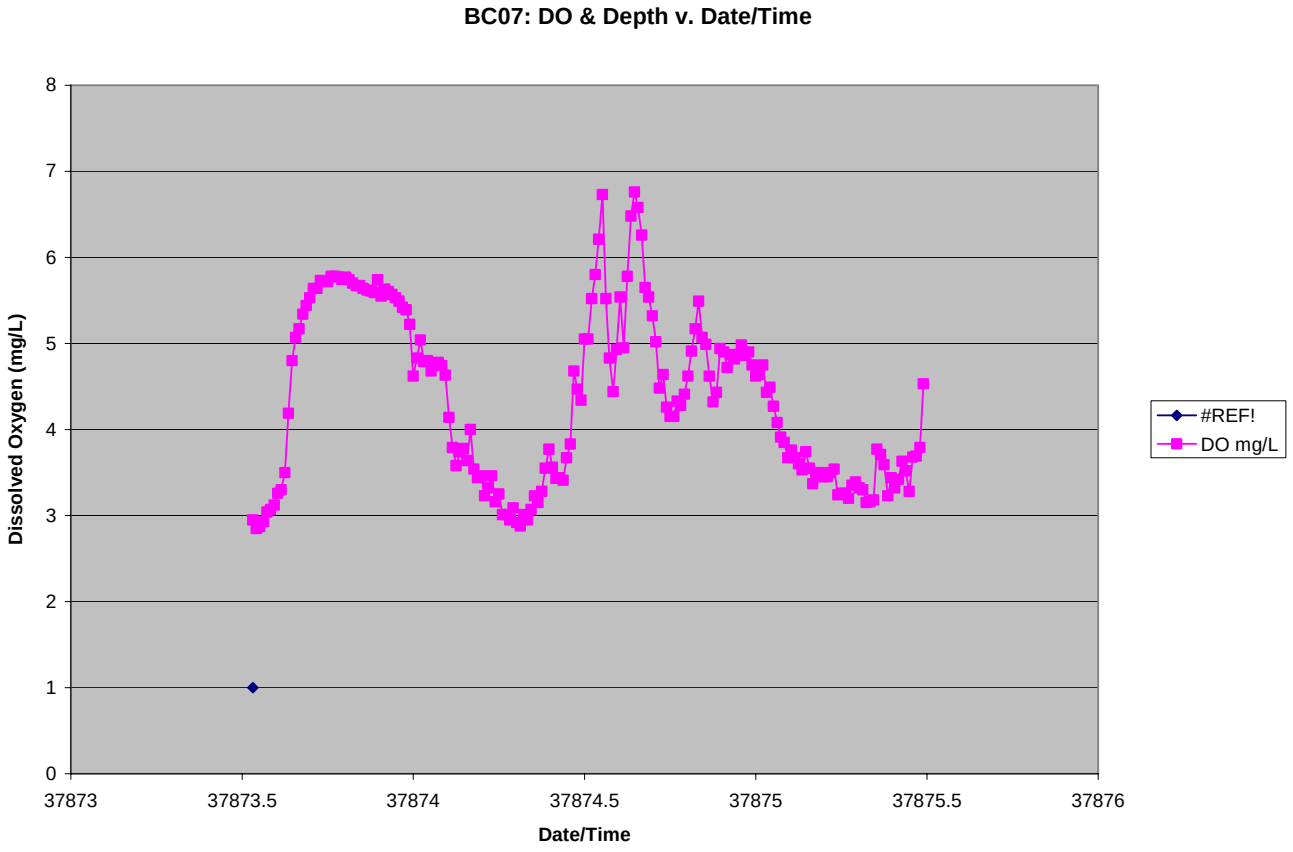
| **Maximum** | **29.7** | **8.2** | **7576.0** | **112.2** | **8.4** | **4.2** |


BC07: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
30.50
30.00
29.50
29.00
28.50
28.00
27.50
27.00
26.50
0:00
DO mg/L
Temp øC


BC07: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
pH
8.00
7.90
7.80
7.70
7.60
7.50
7.40
7.30
0:00
Date/Time
DO mg/L
pH Units


BC07: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0:00
DO mg/L
SpCond æS/cm


BC07: DO & Depth v. Date/Time
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
37873
37873.5
37874
37874.5
37875
37875.5
37876
Date/Time
#REF!
DO mg/L

# Bayou Chauvin 120507 Site BC07
# Continuous Monitoring Data

| Date_ | Time | Date+Time | Temp | pH | SpCond | DO PERCENT | DO | SALINITY |
|---|---|---|---|---|---|---|---|---|
| MMDDYY | HHMM | MMDDYYYY HHMM | øC | Units | æS/cm | Sat | mg/L | ppt |
| 9/9/2003 | 12:45 | 9/9/2003 12:45 | 28.40 | 7.35 | 6638 | 38.9 | 2.95 | 3.68 |
| 9/9/2003 | 13:00 | 9/9/2003 13:00 | 28.44 | 7.34 | 6716 | 37.7 | 2.85 | 3.73 |
| 9/9/2003 | 13:15 | 9/9/2003 13:15 | 28.49 | 7.35 | 6781 | 37.9 | 2.87 | 3.77 |
| 9/9/2003 | 13:30 | 9/9/2003 13:30 | 28.53 | 7.35 | 6837 | 38.8 | 2.93 | 3.80 |
| 9/9/2003 | 13:45 | 9/9/2003 13:45 | 28.60 | 7.36 | 6913 | 40.3 | 3.04 | 3.84 |
| 9/9/2003 | 14:00 | 9/9/2003 14:00 | 28.66 | 7.37 | 6995 | 40.7 | 3.07 | 3.89 |
| 9/9/2003 | 14:15 | 9/9/2003 14:15 | 28.72 | 7.38 | 7069 | 41.4 | 3.12 | 3.93 |
| 9/9/2003 | 14:30 | 9/9/2003 14:30 | 28.82 | 7.39 | 7173 | 43.3 | 3.26 | 3.99 |
| 9/9/2003 | 14:45 | 9/9/2003 14:45 | 28.90 | 7.40 | 7290 | 43.9 | 3.30 | 4.06 |
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| 9/9/2003 | 22:00 | 9/9/2003 22:00 | 28.89 | 7.90 | 8268 | 75.3 | 5.63 | 4.63 |
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| 9/10/2003 | 1:45 | 9/10/2003 01:45 | 28.57 | 7.73 | 8200 | 63.5 | 4.78 | 4.59 |
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| 9/10/2003 | 14:30 | 9/10/2003 14:30 | 28.15 | 7.65 | 6629 | 72.6 | 5.54 | 3.68 |
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| 9/10/2003 | 15:30 | 9/10/2003 15:30 | 29.88 | 7.84 | 6797 | 91.5 | 6.76 | 3.77 |
| 9/10/2003 | 15:45 | 9/10/2003 15:45 | 29.71 | 7.81 | 6848 | 88.9 | 6.58 | 3.80 |
| 9/10/2003 | 16:00 | 9/10/2003 16:00 | 29.54 | 7.75 | 6889 | 84.2 | 6.26 | 3.83 |
| 9/10/2003 | 16:15 | 9/10/2003 16:15 | 29.23 | 7.67 | 6930 | 75.7 | 5.65 | 3.85 |
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| 9/10/2003 | 16:45 | 9/10/2003 16:45 | 29.08 | 7.61 | 6989 | 71.0 | 5.32 | 3.89 |
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| 9/10/2003 | 19:45 | 9/10/2003 19:45 | 29.05 | 7.56 | 7215 | 69.1 | 5.17 | 4.02 |
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| 9/10/2003 | 20:45 | 9/10/2003 20:45 | 28.87 | 7.51 | 7440 | 61.5 | 4.62 | 4.15 |
| 9/10/2003 | 21:00 | 9/10/2003 21:00 | 28.77 | 7.47 | 7381 | 57.4 | 4.32 | 4.11 |
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| 9/10/2003 | 21:30 | 9/10/2003 21:30 | 28.84 | 7.55 | 6831 | 65.7 | 4.94 | 3.79 |
| 9/10/2003 | 21:45 | 9/10/2003 21:45 | 28.91 | 7.58 | 7546 | 65.3 | 4.90 | 4.21 |
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| 9/10/2003 | 23:30 | 9/10/2003 23:30 | 28.91 | 7.59 | 7418 | 65.4 | 4.90 | 4.14 |
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| 9/11/2003 | 4:45 | 9/11/2003 04:45 | 28.18 | 7.39 | 6619 | 45.3 | 3.45 | 3.67 |
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| 9/11/2003 | 5:30 | 9/11/2003 05:30 | 28.09 | 7.42 | 6464 | 46.4 | 3.54 | 3.58 |
| 9/11/2003 | 5:45 | 9/11/2003 05:45 | 27.95 | 7.39 | 6309 | 42.4 | 3.24 | 3.49 |
| 9/11/2003 | 6:00 | 9/11/2003 06:00 | 27.95 | 7.39 | 6305 | 42.6 | 3.26 | 3.49 |
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| 9/11/2003 | 6:30 | 9/11/2003 06:30 | 27.80 | 7.38 | 6044 | 41.6 | 3.20 | 3.34 |
| 9/11/2003 | 6:45 | 9/11/2003 06:45 | 27.72 | 7.40 | 5930 | 43.5 | 3.35 | 3.27 |
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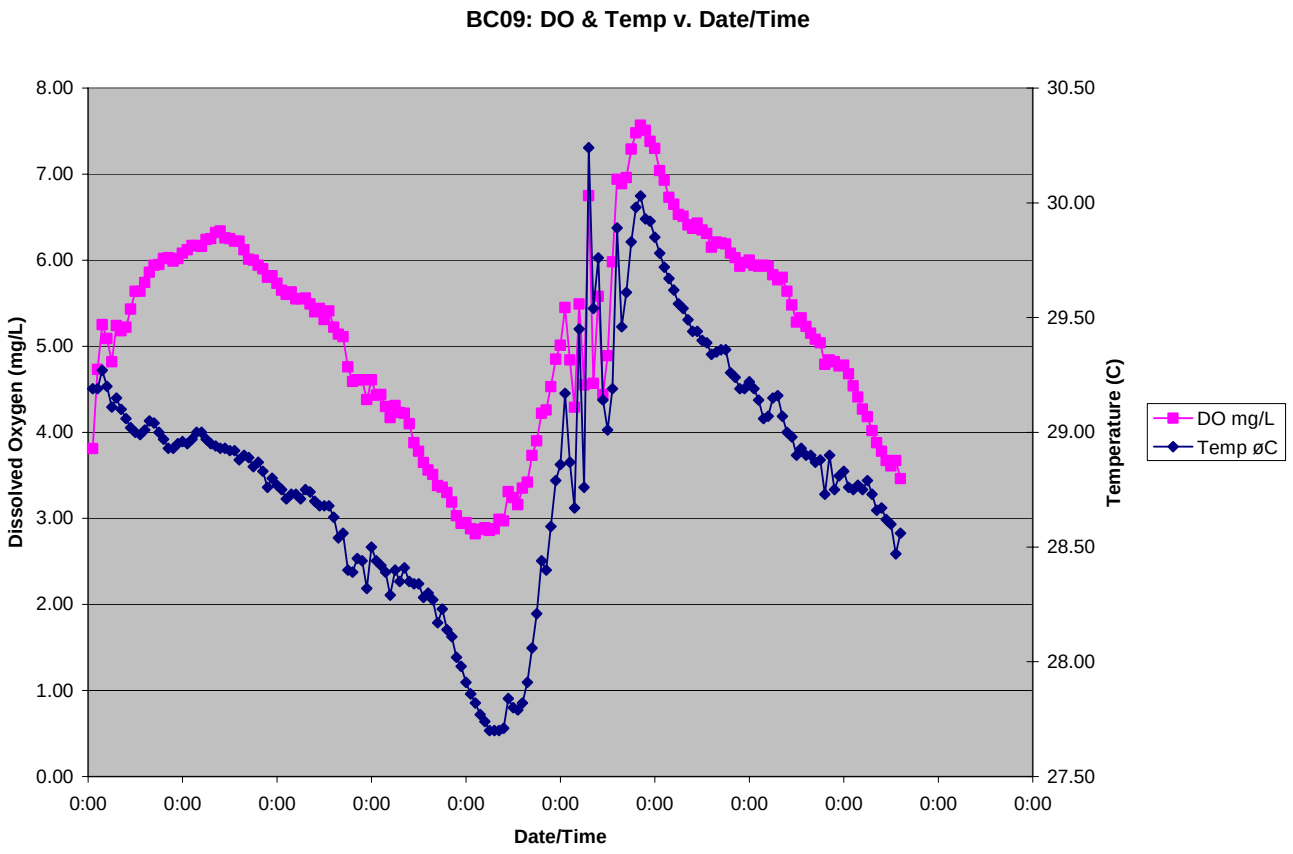
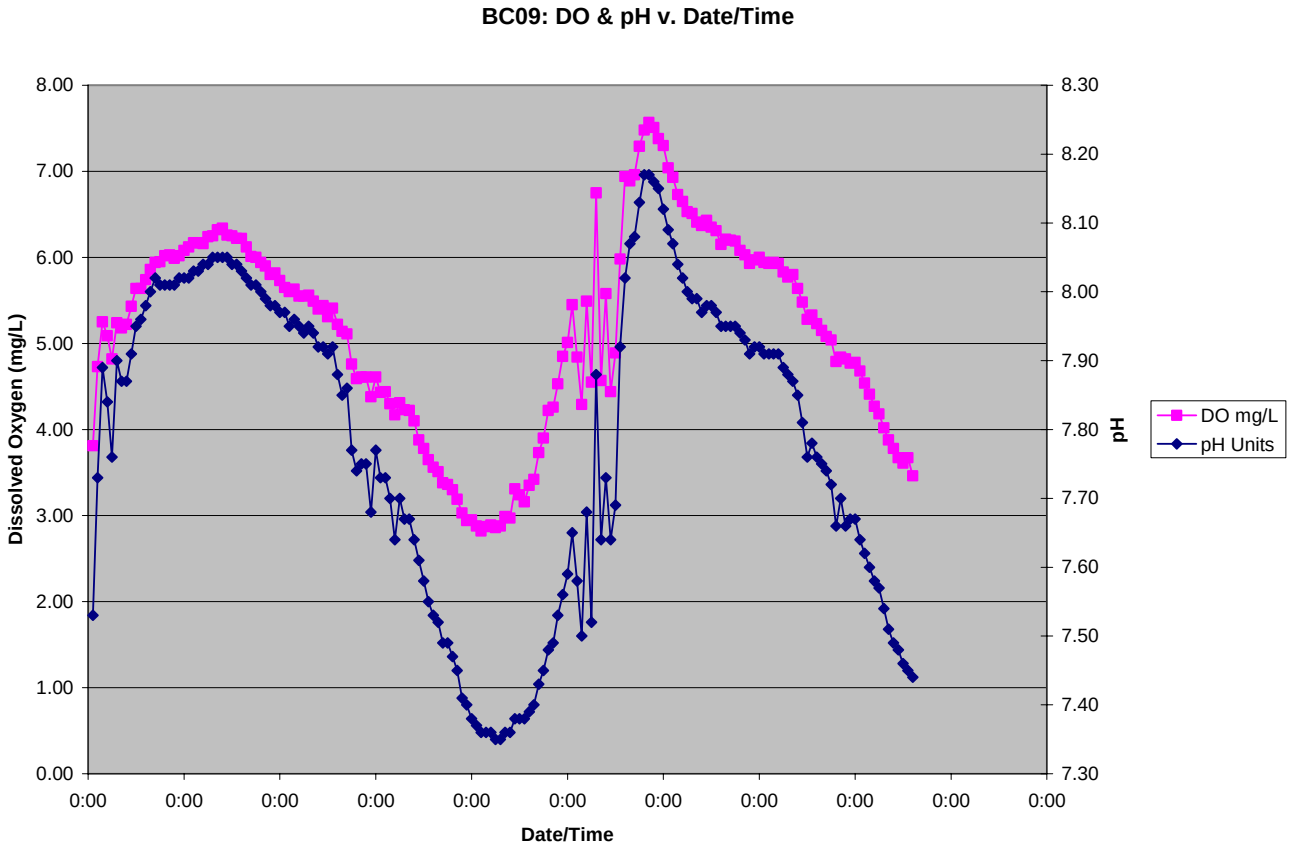
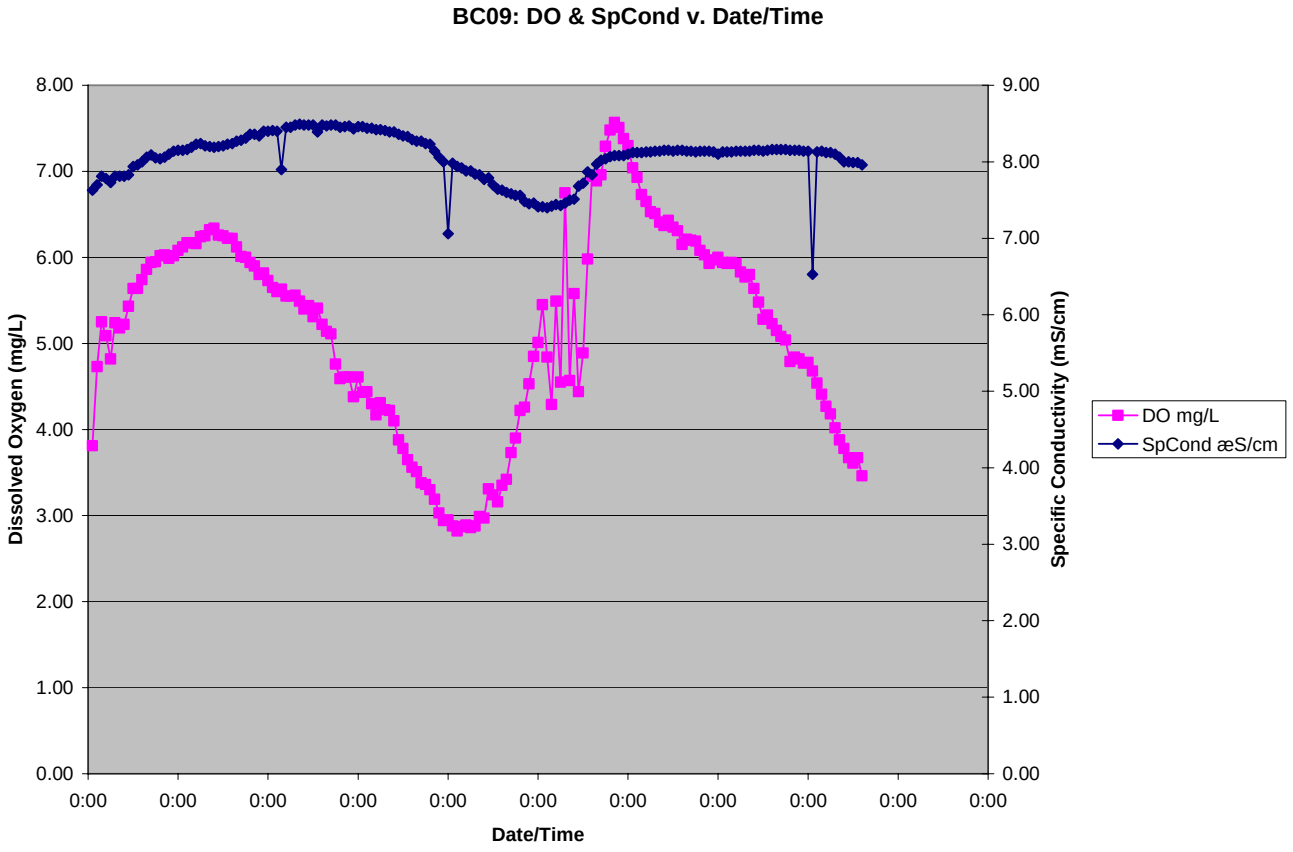
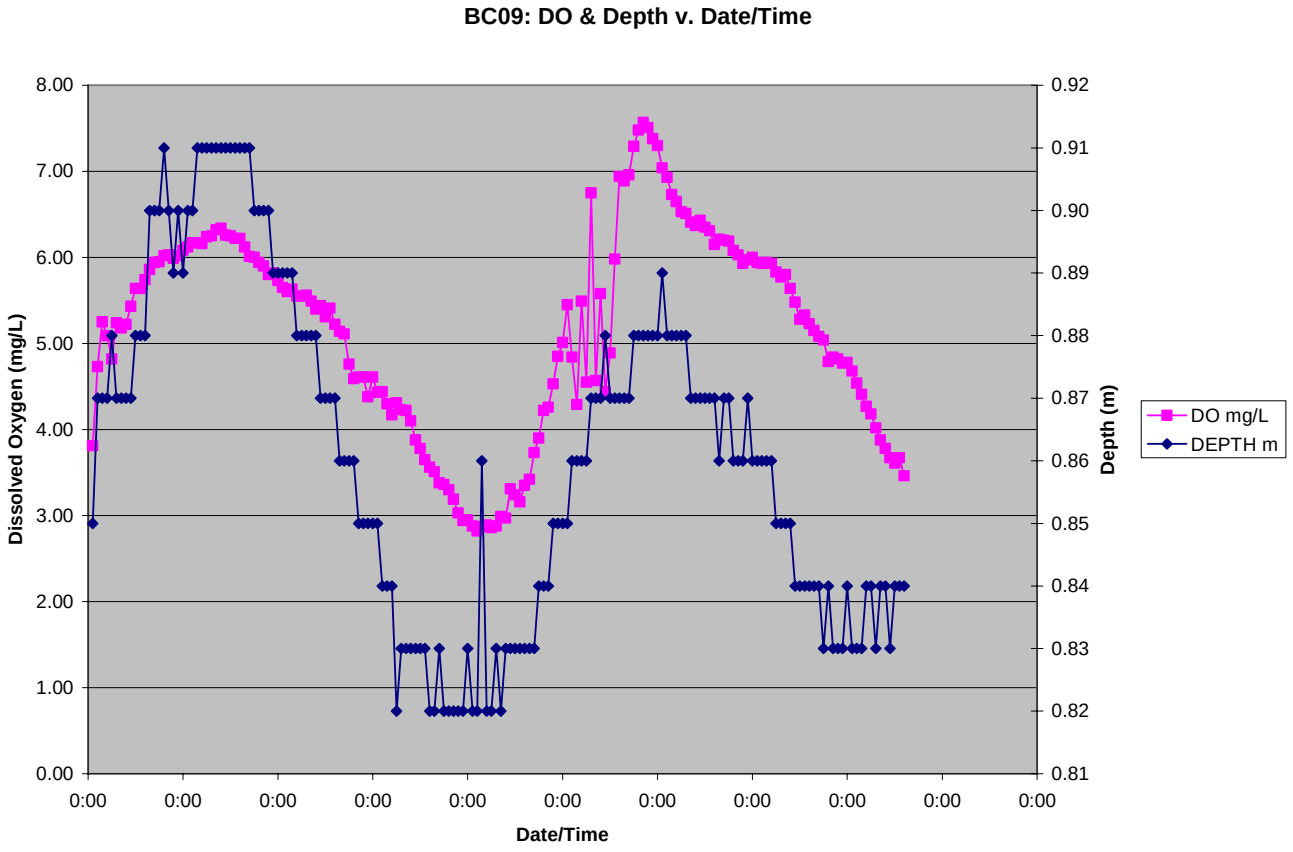
| 9/11/2003 | 11:15 | 9/11/2003 11:15 | 28.06 | 7.42 | 6184 | 48.3 | 3.69 | 3.42 |
| 9/11/2003 | 11:30 | 9/11/2003 11:30 | 28.09 | 7.42 | 6182 | 49.6 | 3.79 | 3.42 |
| 9/11/2003 | 11:45 | 9/11/2003 11:45 | 28.47 | 7.53 | 6034 | 59.7 | 4.53 | 3.33 |
| **Average** | | | **28.36** | **7.56** | **7136.13** | **57.67** | **4.36** | **3.97** |
| **Minimum** | | | **26.86** | **7.34** | **5802.00** | **37.00** | **2.85** | **3.20** |
| **Maximum** | | | **29.88** | **7.94** | **8269.00** | **91.50** | **6.76** | **4.63** |


BC09: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Temperature (C)
30.50
30.00
29.50
29.00
28.50
28.00
27.50
0:00
Date/Time
DO mg/L
Temp øC


BC09: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
pH
8.30
8.20
8.10
8.00
7.90
7.80
7.70
7.60
7.50
7.40
7.30
0:00
Date/Time
DO mg/L
pH Units


BC09: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0:00
DO mg/L
SpCond æS/cm


BC09: DO & Depth v. Date/Time
Dissolved Oxygen (mg/L)
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Depth (m)
0.92
0.91
0.90
0.89
0.88
0.87
0.86
0.85
0.84
0.83
0.82
0.81
0:00
Date/Time
DO mg/L
DEPTH m

# Bayou Chauvin 120507 Site BC09
# Continuous Monitoring Data

| Date_ | Time | Date+Time MMDDYYYY | Temp | pH | SpCond | DEPTH | DO PERCENT | DO | SALINITY |
|---|---|---|---|---|---|---|---|---|---|
| MMDDYY | HHMM | HHMM | øC | Units | æS/cm | m | Sat | mg/L | ppt |
| 9/9/2003 | 11:20 | 9/9/2003 11:20 | 29.19 | 7.53 | 7630.00 | 0.85 | 51.1 | 3.81 | 4.26 |
| 9/9/2003 | 11:35 | 9/9/2003 11:35 | 29.19 | 7.73 | 7700.00 | 0.87 | 63.4 | 4.73 | 4.30 |
| 9/9/2003 | 11:50 | 9/9/2003 11:50 | 29.27 | 7.89 | 7810.00 | 0.87 | 70.6 | 5.25 | 4.36 |
| 9/9/2003 | 12:05 | 9/9/2003 12:05 | 29.20 | 7.84 | 7780.00 | 0.87 | 68.4 | 5.09 | 4.34 |
| 9/9/2003 | 12:20 | 9/9/2003 12:20 | 29.11 | 7.76 | 7730.00 | 0.88 | 64.5 | 4.82 | 4.32 |
| 9/9/2003 | 12:35 | 9/9/2003 12:35 | 29.15 | 7.90 | 7810.00 | 0.87 | 70.3 | 5.24 | 4.36 |
| 9/9/2003 | 12:50 | 9/9/2003 12:50 | 29.10 | 7.87 | 7810.00 | 0.87 | 69.5 | 5.18 | 4.36 |
| 9/9/2003 | 13:05 | 9/9/2003 13:05 | 29.06 | 7.87 | 7810.00 | 0.87 | 69.9 | 5.22 | 4.36 |
| 9/9/2003 | 13:20 | 9/9/2003 13:20 | 29.02 | 7.91 | 7830.00 | 0.87 | 72.7 | 5.43 | 4.38 |
| 9/9/2003 | 13:35 | 9/9/2003 13:35 | 29.00 | 7.95 | 7940.00 | 0.88 | 75.5 | 5.64 | 4.44 |
| 9/9/2003 | 13:50 | 9/9/2003 13:50 | 28.99 | 7.96 | 7960.00 | 0.88 | 75.5 | 5.64 | 4.45 |
| 9/9/2003 | 14:05 | 9/9/2003 14:05 | 29.01 | 7.98 | 8000.00 | 0.88 | 76.8 | 5.74 | 4.48 |
| 9/9/2003 | 14:20 | 9/9/2003 14:20 | 29.05 | 8.00 | 8060.00 | 0.90 | 78.5 | 5.86 | 4.51 |
| 9/9/2003 | 14:35 | 9/9/2003 14:35 | 29.04 | 8.02 | 8090.00 | 0.90 | 79.6 | 5.94 | 4.53 |
| 9/9/2003 | 14:50 | 9/9/2003 14:50 | 29.00 | 8.01 | 8050.00 | 0.90 | 79.7 | 5.95 | 4.50 |
| 9/9/2003 | 15:05 | 9/9/2003 15:05 | 28.97 | 8.01 | 8040.00 | 0.91 | 80.5 | 6.02 | 4.50 |
| 9/9/2003 | 15:20 | 9/9/2003 15:20 | 28.93 | 8.01 | 8060.00 | 0.90 | 80.6 | 6.03 | 4.51 |
| 9/9/2003 | 15:35 | 9/9/2003 15:35 | 28.93 | 8.01 | 8100.00 | 0.89 | 80.2 | 5.99 | 4.53 |
| 9/9/2003 | 15:50 | 9/9/2003 15:50 | 28.95 | 8.02 | 8140.00 | 0.90 | 80.5 | 6.02 | 4.56 |
| 9/9/2003 | 16:05 | 9/9/2003 16:05 | 28.96 | 8.02 | 8150.00 | 0.89 | 81.4 | 6.08 | 4.56 |
| 9/9/2003 | 16:20 | 9/9/2003 16:20 | 28.95 | 8.02 | 8150.00 | 0.90 | 81.9 | 6.12 | 4.56 |
| 9/9/2003 | 16:35 | 9/9/2003 16:35 | 28.97 | 8.03 | 8160.00 | 0.90 | 82.6 | 6.17 | 4.57 |
| 9/9/2003 | 16:50 | 9/9/2003 16:50 | 29.00 | 8.03 | 8190.00 | 0.91 | 82.6 | 6.17 | 4.59 |
| 9/9/2003 | 17:05 | 9/9/2003 17:05 | 29.00 | 8.04 | 8230.00 | 0.91 | 82.5 | 6.16 | 4.61 |
| 9/9/2003 | 17:20 | 9/9/2003 17:20 | 28.97 | 8.04 | 8240.00 | 0.91 | 83.5 | 6.24 | 4.62 |
| 9/9/2003 | 17:35 | 9/9/2003 17:35 | 28.95 | 8.05 | 8210.00 | 0.91 | 83.7 | 6.25 | 4.60 |
| 9/9/2003 | 17:50 | 9/9/2003 17:50 | 28.94 | 8.05 | 8200.00 | 0.91 | 84.6 | 6.32 | 4.59 |
| 9/9/2003 | 18:05 | 9/9/2003 18:05 | 28.93 | 8.05 | 8190.00 | 0.91 | 84.8 | 6.34 | 4.59 |
| 9/9/2003 | 18:20 | 9/9/2003 18:20 | 28.93 | 8.05 | 8200.00 | 0.91 | 83.8 | 6.26 | 4.59 |
| 9/9/2003 | 18:35 | 9/9/2003 18:35 | 28.92 | 8.04 | 8210.00 | 0.91 | 83.7 | 6.25 | 4.60 |
| 9/9/2003 | 18:50 | 9/9/2003 18:50 | 28.92 | 8.04 | 8230.00 | 0.91 | 83.2 | 6.22 | 4.61 |
| 9/9/2003 | 19:05 | 9/9/2003 19:05 | 28.88 | 8.03 | 8240.00 | 0.91 | 83.1 | 6.22 | 4.62 |
| 9/9/2003 | 19:20 | 9/9/2003 19:20 | 28.90 | 8.02 | 8270.00 | 0.91 | 81.8 | 6.12 | 4.64 |
| 9/9/2003 | 19:35 | 9/9/2003 19:35 | 28.89 | 8.01 | 8280.00 | 0.91 | 80.4 | 6.01 | 4.64 |
| 9/9/2003 | 19:50 | 9/9/2003 19:50 | 28.85 | 8.01 | 8310.00 | 0.90 | 80.2 | 6.00 | 4.66 |
| 9/9/2003 | 20:05 | 9/9/2003 20:05 | 28.87 | 8.00 | 8360.00 | 0.90 | 79.5 | 5.94 | 4.69 |
| 9/9/2003 | 20:20 | 9/9/2003 20:20 | 28.83 | 7.99 | 8360.00 | 0.90 | 78.9 | 5.90 | 4.69 |
| 9/9/2003 | 20:35 | 9/9/2003 20:35 | 28.76 | 7.98 | 8340.00 | 0.90 | 77.5 | 5.80 | 4.67 |
| 9/9/2003 | 20:50 | 9/9/2003 20:50 | 28.80 | 7.98 | 8400.00 | 0.89 | 77.7 | 5.82 | 4.71 |
| 9/9/2003 | 21:05 | 9/9/2003 21:05 | 28.77 | 7.97 | 8400.00 | 0.89 | 76.6 | 5.73 | 4.71 |
| 9/9/2003 | 21:20 | 9/9/2003 21:20 | 28.75 | 7.97 | 8410.00 | 0.89 | 75.3 | 5.65 | 4.71 |
| 9/9/2003 | 21:35 | 9/9/2003 21:35 | 28.71 | 7.95 | 8400.00 | 0.89 | 74.7 | 5.60 | 4.71 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9/9/2003 | 21:50 | 9/9/2003 21:50 | 28.73 | 7.96 | 7900.00 | 0.89 | 74.9 | 5.63 | 4.42 |
| 9/9/2003 | 22:05 | 9/9/2003 22:05 | 28.73 | 7.95 | 8450.00 | 0.88 | 74.1 | 5.55 | 4.74 |
| 9/9/2003 | 22:20 | 9/9/2003 22:20 | 28.71 | 7.94 | 8450.00 | 0.88 | 74.0 | 5.55 | 4.74 |
| 9/9/2003 | 22:35 | 9/9/2003 22:35 | 28.75 | 7.95 | 8480.00 | 0.88 | 74.2 | 5.56 | 4.76 |
| 9/9/2003 | 22:50 | 9/9/2003 22:50 | 28.74 | 7.94 | 8490.00 | 0.88 | 73.4 | 5.49 | 4.76 |
| 9/9/2003 | 23:05 | 9/9/2003 23:05 | 28.70 | 7.92 | 8480.00 | 0.88 | 72.0 | 5.40 | 4.76 |
| 9/9/2003 | 23:20 | 9/9/2003 23:20 | 28.68 | 7.92 | 8480.00 | 0.87 | 72.5 | 5.44 | 4.76 |
| 9/9/2003 | 23:35 | 9/9/2003 23:35 | 28.68 | 7.91 | 8480.00 | 0.87 | 70.8 | 5.31 | 4.76 |
| 9/9/2003 | 23:50 | 9/9/2003 23:50 | 28.68 | 7.92 | 8390.00 | 0.87 | 72.1 | 5.41 | 4.70 |
| 9/10/2003 | 0:05 | 9/10/2003 00:05 | 28.63 | 7.88 | 8480.00 | 0.87 | 69.5 | 5.22 | 4.76 |
| 9/10/2003 | 0:20 | 9/10/2003 00:20 | 28.54 | 7.85 | 8470.00 | 0.86 | 68.4 | 5.14 | 4.75 |
| 9/10/2003 | 0:35 | 9/10/2003 00:35 | 28.56 | 7.86 | 8480.00 | 0.86 | 68.0 | 5.11 | 4.76 |
| 9/10/2003 | 0:50 | 9/10/2003 00:50 | 28.40 | 7.77 | 8480.00 | 0.86 | 63.2 | 4.76 | 4.76 |
| 9/10/2003 | 1:05 | 9/10/2003 01:05 | 28.39 | 7.74 | 8450.00 | 0.86 | 60.9 | 4.59 | 4.74 |
| 9/10/2003 | 1:20 | 9/10/2003 01:20 | 28.45 | 7.75 | 8460.00 | 0.85 | 61.2 | 4.61 | 4.75 |
| 9/10/2003 | 1:35 | 9/10/2003 01:35 | 28.44 | 7.75 | 8470.00 | 0.85 | 61.2 | 4.61 | 4.75 |
| 9/10/2003 | 1:50 | 9/10/2003 01:50 | 28.32 | 7.68 | 8430.00 | 0.85 | 58.0 | 4.38 | 4.73 |
| 9/10/2003 | 2:05 | 9/10/2003 02:05 | 28.50 | 7.77 | 8460.00 | 0.85 | 61.3 | 4.61 | 4.75 |
| 9/10/2003 | 2:20 | 9/10/2003 02:20 | 28.44 | 7.73 | 8460.00 | 0.85 | 58.8 | 4.43 | 4.74 |
| 9/10/2003 | 2:35 | 9/10/2003 02:35 | 28.42 | 7.73 | 8440.00 | 0.84 | 58.9 | 4.44 | 4.73 |
| 9/10/2003 | 2:50 | 9/10/2003 02:50 | 28.39 | 7.70 | 8440.00 | 0.84 | 57.1 | 4.30 | 4.73 |
| 9/10/2003 | 3:05 | 9/10/2003 03:05 | 28.29 | 7.64 | 8420.00 | 0.84 | 55.2 | 4.17 | 4.72 |
| 9/10/2003 | 3:20 | 9/10/2003 03:20 | 28.40 | 7.70 | 8420.00 | 0.82 | 57.2 | 4.31 | 4.72 |
| 9/10/2003 | 3:35 | 9/10/2003 03:35 | 28.35 | 7.67 | 8410.00 | 0.83 | 56.1 | 4.23 | 4.71 |
| 9/10/2003 | 3:50 | 9/10/2003 03:50 | 28.41 | 7.67 | 8390.00 | 0.83 | 56.0 | 4.22 | 4.70 |
| 9/10/2003 | 4:05 | 9/10/2003 04:05 | 28.35 | 7.64 | 8390.00 | 0.83 | 54.3 | 4.10 | 4.70 |
| 9/10/2003 | 4:20 | 9/10/2003 04:20 | 28.34 | 7.61 | 8360.00 | 0.83 | 51.4 | 3.88 | 4.69 |
| 9/10/2003 | 4:35 | 9/10/2003 04:35 | 28.34 | 7.58 | 8340.00 | 0.83 | 50.1 | 3.78 | 4.67 |
| 9/10/2003 | 4:50 | 9/10/2003 04:50 | 28.28 | 7.55 | 8330.00 | 0.83 | 48.3 | 3.65 | 4.67 |
| 9/10/2003 | 5:05 | 9/10/2003 05:05 | 28.30 | 7.53 | 8290.00 | 0.82 | 47.1 | 3.56 | 4.65 |
| 9/10/2003 | 5:20 | 9/10/2003 05:20 | 28.27 | 7.52 | 8270.00 | 0.82 | 46.4 | 3.51 | 4.63 |
| 9/10/2003 | 5:35 | 9/10/2003 05:35 | 28.17 | 7.49 | 8270.00 | 0.83 | 44.7 | 3.38 | 4.63 |
| 9/10/2003 | 5:50 | 9/10/2003 05:50 | 28.23 | 7.49 | 8240.00 | 0.82 | 44.5 | 3.36 | 4.61 |
| 9/10/2003 | 6:05 | 9/10/2003 06:05 | 28.14 | 7.47 | 8230.00 | 0.82 | 43.5 | 3.30 | 4.61 |
| 9/10/2003 | 6:20 | 9/10/2003 06:20 | 28.11 | 7.45 | 8140.00 | 0.82 | 42.0 | 3.19 | 4.56 |
| 9/10/2003 | 6:35 | 9/10/2003 06:35 | 28.02 | 7.41 | 8060.00 | 0.82 | 39.8 | 3.03 | 4.51 |
| 9/10/2003 | 6:50 | 9/10/2003 06:50 | 27.98 | 7.40 | 8000.00 | 0.82 | 38.6 | 2.94 | 4.48 |
| 9/10/2003 | 7:05 | 9/10/2003 07:05 | 27.91 | 7.38 | 7060.00 | 0.83 | 38.6 | 2.95 | 3.92 |
| 9/10/2003 | 7:20 | 9/10/2003 07:20 | 27.86 | 7.37 | 7980.00 | 0.82 | 37.8 | 2.88 | 4.46 |
| 9/10/2003 | 7:35 | 9/10/2003 07:35 | 27.82 | 7.36 | 7940.00 | 0.82 | 36.9 | 2.82 | 4.44 |
| 9/10/2003 | 7:50 | 9/10/2003 07:50 | 27.77 | 7.36 | 7920.00 | 0.86 | 37.6 | 2.87 | 4.43 |
| 9/10/2003 | 8:05 | 9/10/2003 08:05 | 27.74 | 7.36 | 7880.00 | 0.82 | 37.8 | 2.89 | 4.41 |
| 9/10/2003 | 8:20 | 9/10/2003 08:20 | 27.70 | 7.35 | 7880.00 | 0.82 | 37.4 | 2.86 | 4.41 |
| 9/10/2003 | 8:35 | 9/10/2003 08:35 | 27.70 | 7.35 | 7840.00 | 0.83 | 37.6 | 2.88 | 4.38 |
| 9/10/2003 | 8:50 | 9/10/2003 08:50 | 27.70 | 7.36 | 7830.00 | 0.82 | 39.1 | 2.99 | 4.37 |
| 9/10/2003 | 9:05 | 9/10/2003 09:05 | 27.71 | 7.36 | 7770.00 | 0.83 | 38.9 | 2.97 | 4.34 |
| 9/10/2003 | 9:20 | 9/10/2003 09:20 | 27.84 | 7.38 | 7790.00 | 0.83 | 43.4 | 3.31 | 4.35 |
| 9/10/2003 | 9:35 | 9/10/2003 09:35 | 27.80 | 7.38 | 7700.00 | 0.83 | 42.4 | 3.24 | 4.30 |
| 9/10/2003 | 9:50 | 9/10/2003 09:50 | 27.79 | 7.38 | 7640.00 | 0.83 | 41.3 | 3.16 | 4.27 |
| 9/10/2003 | 10:05 | 9/10/2003 10:05 | 27.82 | 7.39 | 7630.00 | 0.83 | 43.9 | 3.35 | 4.25 |

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|---|---|---|---|---|---|---|---|---|---|
| 9/10/2003 | 10:20 | 9/10/2003 10:20 | 27.91 | 7.40 | 7600.00 | 0.83 | 44.8 | 3.42 | 4.24 |
| 9/10/2003 | 10:35 | 9/10/2003 10:35 | 28.06 | 7.43 | 7580.00 | 0.83 | 49.0 | 3.73 | 4.23 |
| 9/10/2003 | 10:50 | 9/10/2003 10:50 | 28.21 | 7.45 | 7560.00 | 0.84 | 51.4 | 3.90 | 4.22 |
| 9/10/2003 | 11:05 | 9/10/2003 11:05 | 28.44 | 7.48 | 7560.00 | 0.84 | 55.8 | 4.22 | 4.22 |
| 9/10/2003 | 11:20 | 9/10/2003 11:20 | 28.40 | 7.49 | 7480.00 | 0.84 | 56.3 | 4.26 | 4.17 |
| 9/10/2003 | 11:35 | 9/10/2003 11:35 | 28.59 | 7.53 | 7450.00 | 0.85 | 60.1 | 4.53 | 4.15 |
| 9/10/2003 | 11:50 | 9/10/2003 11:50 | 28.79 | 7.56 | 7460.00 | 0.85 | 64.5 | 4.85 | 4.16 |
| 9/10/2003 | 12:05 | 9/10/2003 12:05 | 28.86 | 7.59 | 7410.00 | 0.85 | 66.7 | 5.01 | 4.13 |
| 9/10/2003 | 12:20 | 9/10/2003 12:20 | 29.17 | 7.65 | 7410.00 | 0.85 | 73.0 | 5.45 | 4.13 |
| 9/10/2003 | 12:35 | 9/10/2003 12:35 | 28.87 | 7.58 | 7400.00 | 0.86 | 64.4 | 4.84 | 4.13 |
| 9/10/2003 | 12:50 | 9/10/2003 12:50 | 28.67 | 7.50 | 7420.00 | 0.86 | 56.9 | 4.29 | 4.14 |
| 9/10/2003 | 13:05 | 9/10/2003 13:05 | 29.45 | 7.68 | 7440.00 | 0.86 | 73.9 | 5.49 | 4.15 |
| 9/10/2003 | 13:20 | 9/10/2003 13:20 | 28.76 | 7.52 | 7430.00 | 0.86 | 60.5 | 4.55 | 4.14 |
| 9/10/2003 | 13:35 | 9/10/2003 13:35 | 30.24 | 7.88 | 7460.00 | 0.87 | 92.1 | 6.75 | 4.16 |
| 9/10/2003 | 13:50 | 9/10/2003 13:50 | 29.54 | 7.64 | 7500.00 | 0.87 | 61.5 | 4.57 | 4.18 |
| 9/10/2003 | 14:05 | 9/10/2003 14:05 | 29.76 | 7.73 | 7510.00 | 0.87 | 75.5 | 5.58 | 4.19 |
| 9/10/2003 | 14:20 | 9/10/2003 14:20 | 29.14 | 7.64 | 7680.00 | 0.88 | 59.4 | 4.44 | 4.29 |
| 9/10/2003 | 14:35 | 9/10/2003 14:35 | 29.01 | 7.69 | 7720.00 | 0.87 | 65.4 | 4.89 | 4.31 |
| 9/10/2003 | 14:50 | 9/10/2003 14:50 | 29.19 | 7.92 | 7870.00 | 0.87 | 80.3 | 5.98 | 4.40 |
| 9/10/2003 | 15:05 | 9/10/2003 15:05 | 29.89 | 8.02 | 7830.00 | 0.87 | 94.3 | 6.94 | 4.38 |
| 9/10/2003 | 15:20 | 9/10/2003 15:20 | 29.46 | 8.07 | 7970.00 | 0.87 | 92.9 | 6.89 | 4.46 |
| 9/10/2003 | 15:35 | 9/10/2003 15:35 | 29.61 | 8.08 | 8020.00 | 0.87 | 94.1 | 6.96 | 4.49 |
| 9/10/2003 | 15:50 | 9/10/2003 15:50 | 29.83 | 8.13 | 8040.00 | 0.88 | 99.1 | 7.29 | 4.50 |
| 9/10/2003 | 16:05 | 9/10/2003 16:05 | 29.98 | 8.17 | 8070.00 | 0.88 | 101.8 | 7.48 | 4.52 |
| 9/10/2003 | 16:20 | 9/10/2003 16:20 | 30.03 | 8.17 | 8080.00 | 0.88 | 103.1 | 7.57 | 4.52 |
| 9/10/2003 | 16:35 | 9/10/2003 16:35 | 29.93 | 8.16 | 8080.00 | 0.88 | 102.2 | 7.51 | 4.52 |
| 9/10/2003 | 16:50 | 9/10/2003 16:50 | 29.92 | 8.15 | 8080.00 | 0.88 | 100.4 | 7.38 | 4.52 |
| 9/10/2003 | 17:05 | 9/10/2003 17:05 | 29.85 | 8.12 | 8100.00 | 0.88 | 99.2 | 7.30 | 4.54 |
| 9/10/2003 | 17:20 | 9/10/2003 17:20 | 29.78 | 8.09 | 8120.00 | 0.89 | 95.6 | 7.04 | 4.55 |
| 9/10/2003 | 17:35 | 9/10/2003 17:35 | 29.72 | 8.07 | 8120.00 | 0.88 | 94.0 | 6.93 | 4.54 |
| 9/10/2003 | 17:50 | 9/10/2003 17:50 | 29.67 | 8.04 | 8120.00 | 0.88 | 91.2 | 6.73 | 4.55 |
| 9/10/2003 | 18:05 | 9/10/2003 18:05 | 29.62 | 8.02 | 8130.00 | 0.88 | 90.1 | 6.65 | 4.55 |
| 9/10/2003 | 18:20 | 9/10/2003 18:20 | 29.56 | 8.00 | 8130.00 | 0.88 | 88.4 | 6.53 | 4.55 |
| 9/10/2003 | 18:35 | 9/10/2003 18:35 | 29.54 | 7.99 | 8140.00 | 0.88 | 88.0 | 6.51 | 4.56 |
| 9/10/2003 | 18:50 | 9/10/2003 18:50 | 29.49 | 7.99 | 8140.00 | 0.87 | 86.6 | 6.41 | 4.56 |
| 9/10/2003 | 19:05 | 9/10/2003 19:05 | 29.44 | 7.97 | 8150.00 | 0.87 | 86.0 | 6.37 | 4.56 |
| 9/10/2003 | 19:20 | 9/10/2003 19:20 | 29.44 | 7.98 | 8150.00 | 0.87 | 86.7 | 6.43 | 4.56 |
| 9/10/2003 | 19:35 | 9/10/2003 19:35 | 29.40 | 7.98 | 8140.00 | 0.87 | 85.7 | 6.35 | 4.56 |
| 9/10/2003 | 19:50 | 9/10/2003 19:50 | 29.39 | 7.97 | 8150.00 | 0.87 | 85.1 | 6.31 | 4.56 |
| 9/10/2003 | 20:05 | 9/10/2003 20:05 | 29.34 | 7.95 | 8150.00 | 0.87 | 82.9 | 6.15 | 4.56 |
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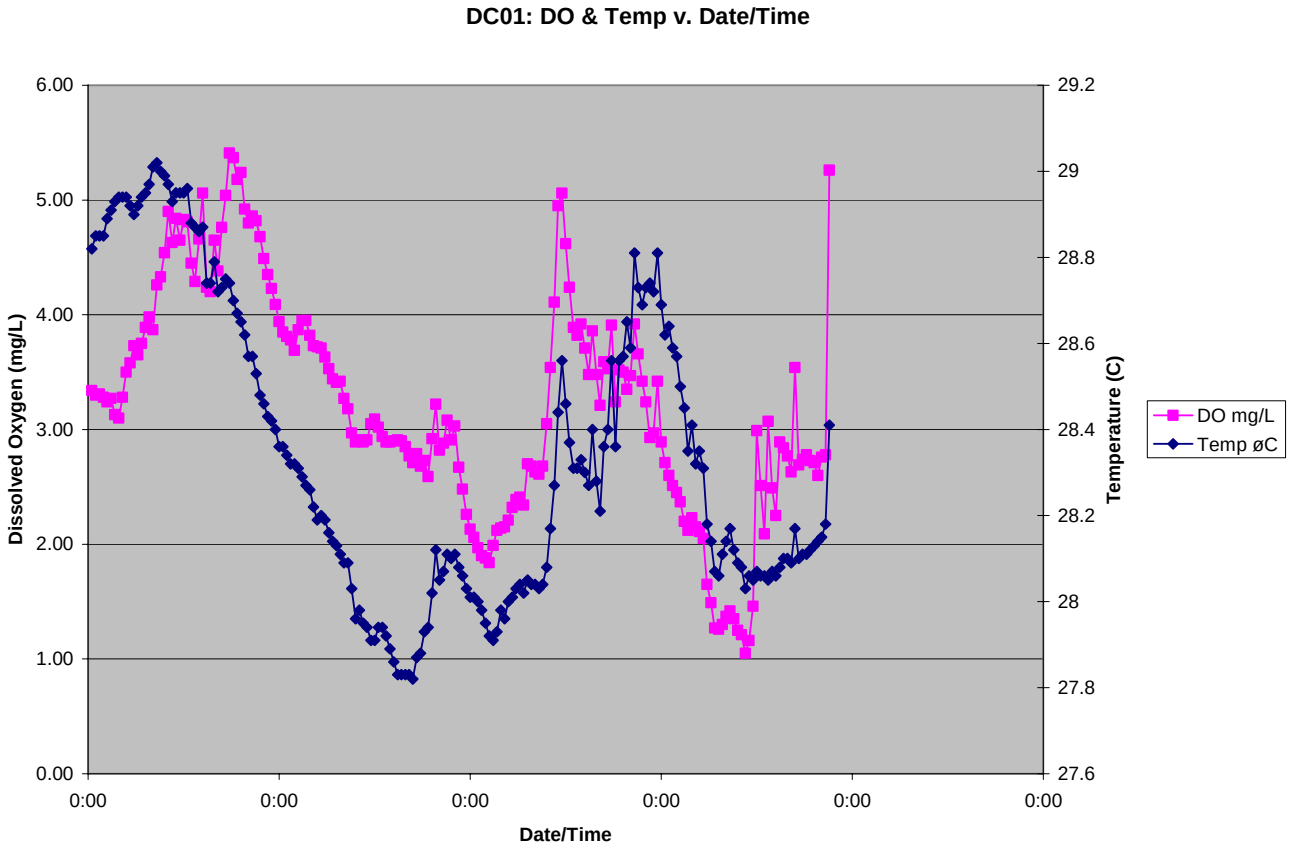
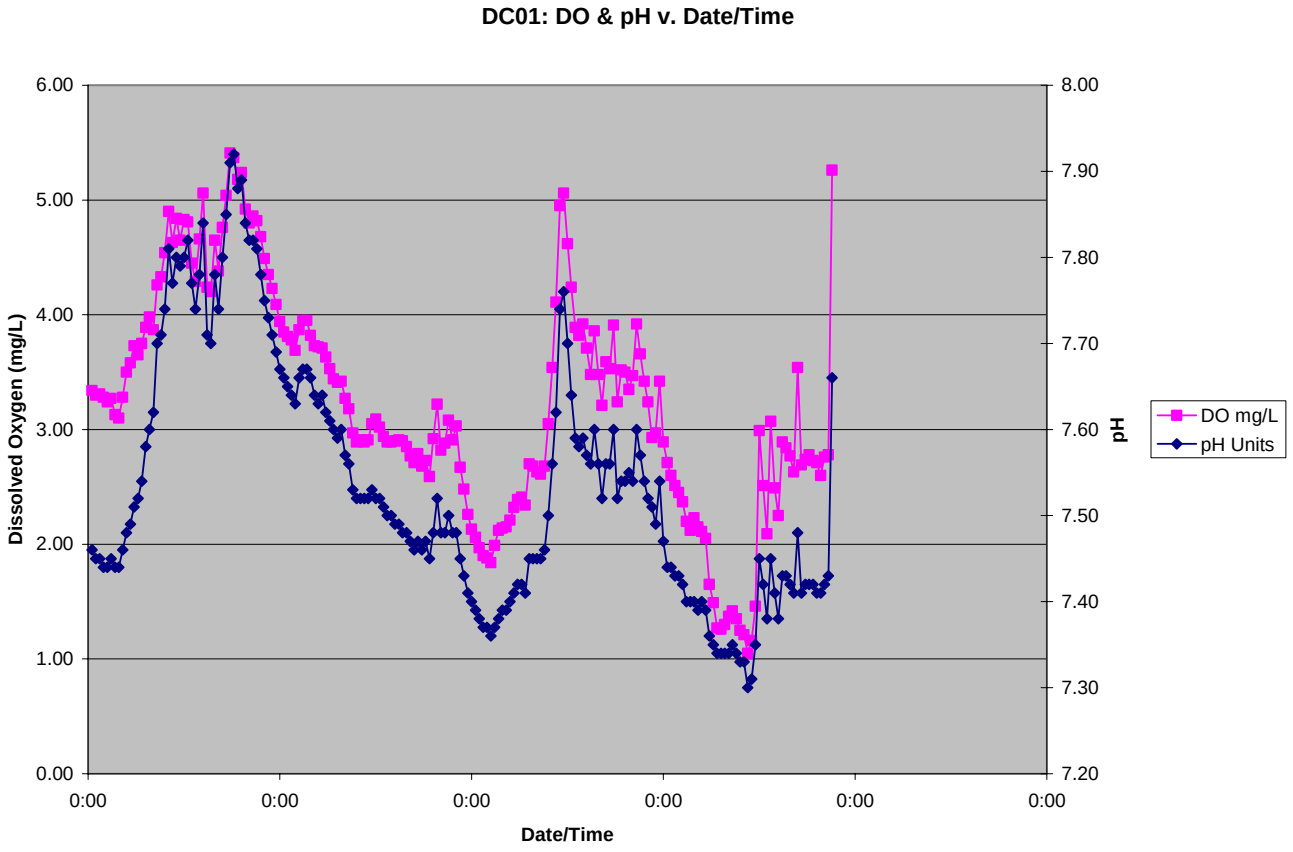
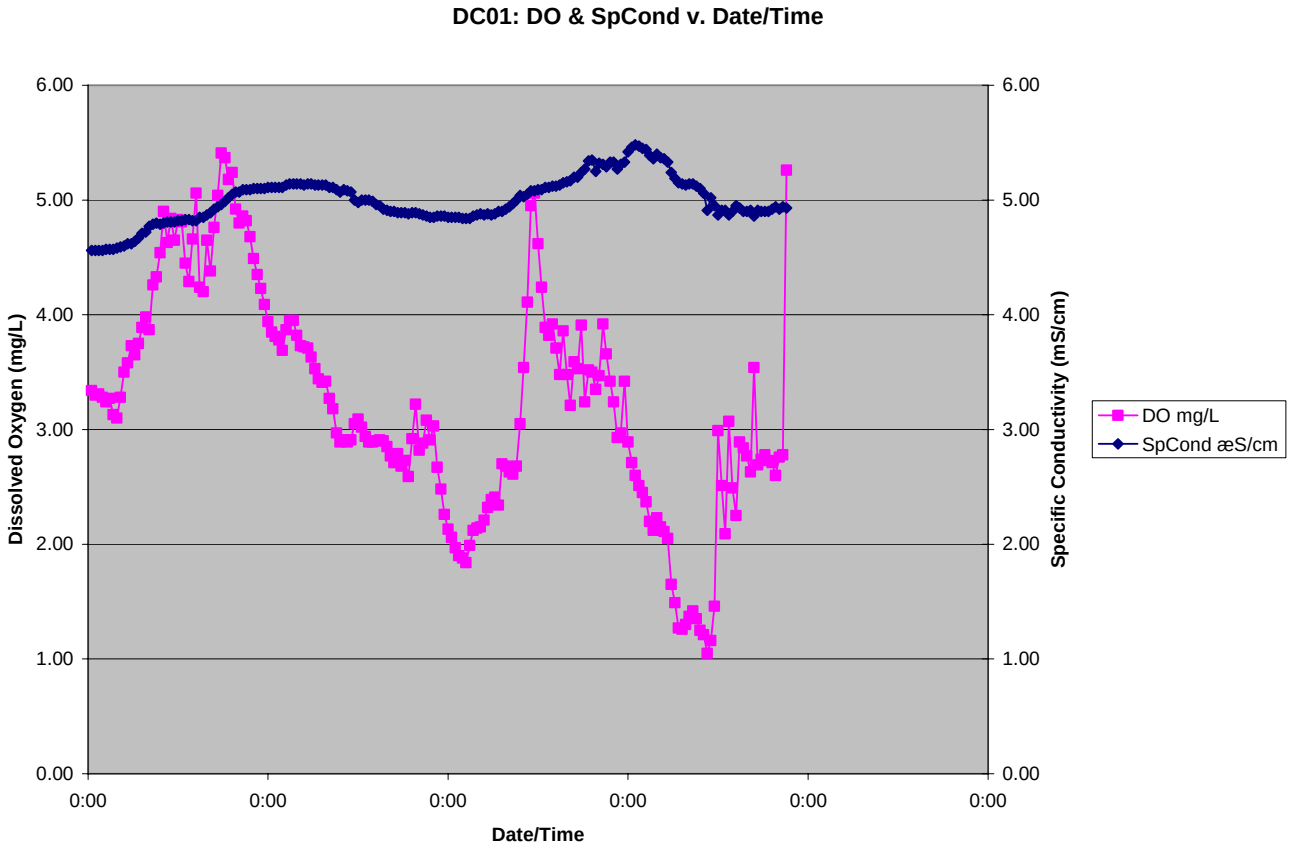
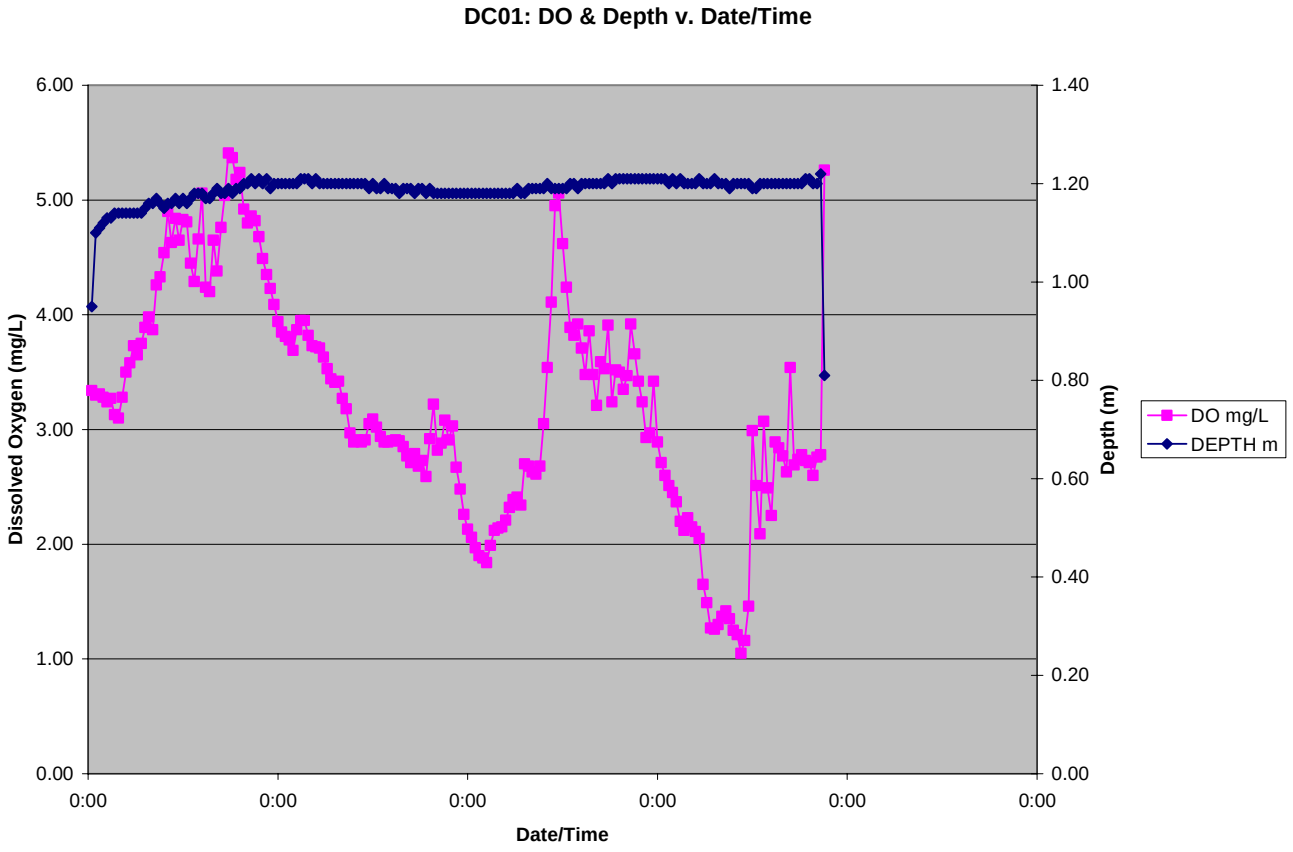
| 9/10/2003 | 20:35 | 9/10/2003 20:35 | 29.36 | 7.95 | 8140.00 | 0.87 | 83.5 | 6.20 | 4.56 |
| 9/10/2003 | 20:50 | 9/10/2003 20:50 | 29.36 | 7.95 | 8130.00 | 0.87 | 83.5 | 6.19 | 4.55 |
| 9/10/2003 | 21:05 | 9/10/2003 21:05 | 29.26 | 7.94 | 8140.00 | 0.86 | 81.8 | 6.08 | 4.55 |
| 9/10/2003 | 21:20 | 9/10/2003 21:20 | 29.24 | 7.93 | 8140.00 | 0.86 | 81.1 | 6.03 | 4.56 |
| 9/10/2003 | 21:35 | 9/10/2003 21:35 | 29.19 | 7.91 | 8140.00 | 0.86 | 79.7 | 5.93 | 4.56 |
| 9/10/2003 | 21:50 | 9/10/2003 21:50 | 29.19 | 7.92 | 8130.00 | 0.87 | 80.2 | 5.97 | 4.55 |
| 9/10/2003 | 22:05 | 9/10/2003 22:05 | 29.22 | 7.92 | 8100.00 | 0.86 | 80.6 | 6.00 | 4.53 |
| 9/10/2003 | 22:20 | 9/10/2003 22:20 | 29.19 | 7.91 | 8130.00 | 0.86 | 79.8 | 5.94 | 4.55 |
| 9/10/2003 | 22:35 | 9/10/2003 22:35 | 29.14 | 7.91 | 8130.00 | 0.86 | 79.6 | 5.93 | 4.55 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9/10/2003 | 22:50 | 9/10/2003 22:50 | 29.06 | 7.91 | 8130.00 | 0.86 | 79.6 | 5.94 | 4.55 |
| 9/10/2003 | 23:05 | 9/10/2003 23:05 | 29.07 | 7.91 | 8140.00 | 0.86 | 79.5 | 5.93 | 4.55 |
| 9/10/2003 | 23:20 | 9/10/2003 23:20 | 29.15 | 7.89 | 8140.00 | 0.85 | 78.2 | 5.83 | 4.56 |
| 9/10/2003 | 23:35 | 9/10/2003 23:35 | 29.16 | 7.88 | 8140.00 | 0.85 | 77.4 | 5.77 | 4.56 |
| 9/10/2003 | 23:50 | 9/10/2003 23:50 | 29.07 | 7.87 | 8140.00 | 0.85 | 77.8 | 5.80 | 4.56 |
| 9/11/2003 | 0:05 | 9/11/2003 00:05 | 29.00 | 7.85 | 8150.00 | 0.85 | 75.5 | 5.64 | 4.56 |
| 9/11/2003 | 0:20 | 9/11/2003 00:20 | 28.98 | 7.81 | 8150.00 | 0.84 | 73.4 | 5.48 | 4.56 |
| 9/11/2003 | 0:35 | 9/11/2003 00:35 | 28.90 | 7.76 | 8140.00 | 0.84 | 70.6 | 5.28 | 4.56 |
| 9/11/2003 | 0:50 | 9/11/2003 00:50 | 28.93 | 7.78 | 8150.00 | 0.84 | 71.3 | 5.33 | 4.56 |
| 9/11/2003 | 1:05 | 9/11/2003 01:05 | 28.90 | 7.76 | 8160.00 | 0.84 | 69.9 | 5.23 | 4.57 |
| 9/11/2003 | 1:20 | 9/11/2003 01:20 | 28.90 | 7.75 | 8160.00 | 0.84 | 68.8 | 5.15 | 4.57 |
| 9/11/2003 | 1:35 | 9/11/2003 01:35 | 28.87 | 7.74 | 8160.00 | 0.84 | 67.9 | 5.08 | 4.57 |
| 9/11/2003 | 1:50 | 9/11/2003 01:50 | 28.88 | 7.72 | 8160.00 | 0.83 | 67.4 | 5.04 | 4.57 |
| 9/11/2003 | 2:05 | 9/11/2003 02:05 | 28.73 | 7.66 | 8150.00 | 0.84 | 63.8 | 4.79 | 4.57 |
| 9/11/2003 | 2:20 | 9/11/2003 02:20 | 28.90 | 7.70 | 8150.00 | 0.83 | 64.7 | 4.84 | 4.56 |
| 9/11/2003 | 2:35 | 9/11/2003 02:35 | 28.75 | 7.66 | 8150.00 | 0.83 | 64.3 | 4.82 | 4.56 |
| 9/11/2003 | 2:50 | 9/11/2003 02:50 | 28.81 | 7.67 | 8140.00 | 0.83 | 63.7 | 4.77 | 4.56 |
| 9/11/2003 | 3:05 | 9/11/2003 03:05 | 28.83 | 7.67 | 8140.00 | 0.84 | 63.9 | 4.78 | 4.56 |
| 9/11/2003 | 3:20 | 9/11/2003 03:20 | 28.76 | 7.64 | 6530.00 | 0.83 | 62.0 | 4.68 | 3.62 |
| 9/11/2003 | 3:35 | 9/11/2003 03:35 | 28.75 | 7.62 | 8130.00 | 0.83 | 60.5 | 4.54 | 4.55 |
| 9/11/2003 | 3:50 | 9/11/2003 03:50 | 28.77 | 7.60 | 8140.00 | 0.83 | 58.8 | 4.41 | 4.56 |
| 9/11/2003 | 4:05 | 9/11/2003 04:05 | 28.75 | 7.58 | 8120.00 | 0.84 | 56.9 | 4.27 | 4.55 |
| 9/11/2003 | 4:20 | 9/11/2003 04:20 | 28.79 | 7.57 | 8120.00 | 0.84 | 55.8 | 4.18 | 4.54 |
| 9/11/2003 | 4:35 | 9/11/2003 04:35 | 28.73 | 7.54 | 8100.00 | 0.83 | 53.6 | 4.02 | 4.54 |
| 9/11/2003 | 4:50 | 9/11/2003 04:50 | 28.66 | 7.51 | 8060.00 | 0.84 | 51.6 | 3.88 | 4.51 |
| 9/11/2003 | 5:05 | 9/11/2003 05:05 | 28.67 | 7.49 | 8000.00 | 0.84 | 50.3 | 3.78 | 4.48 |
| 9/11/2003 | 5:20 | 9/11/2003 05:20 | 28.62 | 7.48 | 8000.00 | 0.83 | 48.8 | 3.67 | 4.48 |
| 9/11/2003 | 5:35 | 9/11/2003 05:35 | 28.60 | 7.46 | 7990.00 | 0.84 | 48.0 | 3.61 | 4.47 |
| 9/11/2003 | 5:50 | 9/11/2003 05:50 | 28.47 | 7.45 | 7990.00 | 0.84 | 48.7 | 3.67 | 4.47 |
| 9/11/2003 | 6:05 | 9/11/2003 06:05 | 28.56 | 7.44 | 7960.00 | 0.84 | 46.0 | 3.46 | 4.45 |
| **Average** | | | **28.83** | **7.78** | **8063.84** | **0.86** | **68.81** | **5.14** | **4.51** |
| **Minimum** | | | **27.70** | **7.35** | **6530.00** | **0.82** | **36.90** | **2.82** | **3.62** |
| **Maximum** | | | **30.24** | **8.17** | **8490.00** | **0.91** | **103.10** | **7.57** | **4.76** |


DC01: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Temperature (C)
29.2
29
28.8
28.6
28.4
28.2
28
27.8
27.6
0:00
0:00
0:00
0:00
0:00
0:00
Date/Time
DO mg/L
Temp øC


DC01: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
pH
8.00
7.90
7.80
7.70
7.60
7.50
7.40
7.30
7.20
0:00
0:00
0:00
0:00
0:00
0:00
Date/Time
DO mg/L
pH Units


DC01: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0:00
DO mg/L
SpCond æS/cm


DC01: DO & Depth v. Date/Time
Dissolved Oxygen (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Depth (m)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0:00
0:00
0:00
0:00
0:00
0:00
Date/Time
DO mg/L
DEPTH m

# Bayou Chauvin 120507 Site DC01
# Continuous Monitoring Data

| Date_ | Time | Date+Time | Temp | pH | SpCond | DEPTH | DO PERCENT | DO | SALINITY |
|---|---|---|---|---|---|---|---|---|---|
| MMDDYY | HHMM | MMDDYYYY HHMM | øC | Units | æS/cm | m | Sat | mg/L | ppt |
| 9/9/2003 | 11:15 | 9/9/2003 11:15 | 28.82 | 7.46 | 4560.00 | 0.95 | 44.0 | 3.34 | 2.50 |
| 9/9/2003 | 11:30 | 9/9/2003 11:30 | 28.85 | 7.45 | 4560.00 | 1.10 | 43.4 | 3.30 | 2.50 |
| 9/9/2003 | 11:45 | 9/9/2003 11:45 | 28.85 | 7.45 | 4560.00 | 1.11 | 43.6 | 3.31 | 2.50 |
| 9/9/2003 | 12:00 | 9/9/2003 12:00 | 28.85 | 7.44 | 4560.00 | 1.12 | 43.3 | 3.28 | 2.50 |
| 9/9/2003 | 12:15 | 9/9/2003 12:15 | 28.89 | 7.44 | 4570.00 | 1.13 | 42.7 | 3.24 | 2.50 |
| 9/9/2003 | 12:30 | 9/9/2003 12:30 | 28.91 | 7.45 | 4570.00 | 1.13 | 43.2 | 3.27 | 2.50 |
| 9/9/2003 | 12:45 | 9/9/2003 12:45 | 28.93 | 7.44 | 4570.00 | 1.14 | 41.3 | 3.13 | 2.50 |
| 9/9/2003 | 13:00 | 9/9/2003 13:00 | 28.94 | 7.44 | 4580.00 | 1.14 | 41.0 | 3.10 | 2.51 |
| 9/9/2003 | 13:15 | 9/9/2003 13:15 | 28.94 | 7.46 | 4590.00 | 1.14 | 43.3 | 3.28 | 2.51 |
| 9/9/2003 | 13:30 | 9/9/2003 13:30 | 28.94 | 7.48 | 4600.00 | 1.14 | 46.3 | 3.50 | 2.52 |
| 9/9/2003 | 13:45 | 9/9/2003 13:45 | 28.92 | 7.49 | 4620.00 | 1.14 | 47.2 | 3.58 | 2.53 |
| 9/9/2003 | 14:00 | 9/9/2003 14:00 | 28.9 | 7.51 | 4620.00 | 1.14 | 49.3 | 3.73 | 2.53 |
| 9/9/2003 | 14:15 | 9/9/2003 14:15 | 28.92 | 7.52 | 4640.00 | 1.14 | 48.2 | 3.65 | 2.54 |
| 9/9/2003 | 14:30 | 9/9/2003 14:30 | 28.94 | 7.54 | 4670.00 | 1.14 | 49.5 | 3.75 | 2.56 |
| 9/9/2003 | 14:45 | 9/9/2003 14:45 | 28.95 | 7.58 | 4710.00 | 1.15 | 51.4 | 3.89 | 2.58 |
| 9/9/2003 | 15:00 | 9/9/2003 15:00 | 28.97 | 7.60 | 4720.00 | 1.16 | 52.6 | 3.98 | 2.59 |
| 9/9/2003 | 15:15 | 9/9/2003 15:15 | 29.01 | 7.62 | 4770.00 | 1.16 | 51.3 | 3.87 | 2.61 |
| 9/9/2003 | 15:30 | 9/9/2003 15:30 | 29.02 | 7.70 | 4790.00 | 1.17 | 56.4 | 4.26 | 2.63 |
| 9/9/2003 | 15:45 | 9/9/2003 15:45 | 29 | 7.71 | 4800.00 | 1.16 | 57.3 | 4.33 | 2.63 |
| 9/9/2003 | 16:00 | 9/9/2003 16:00 | 28.99 | 7.74 | 4790.00 | 1.15 | 60.0 | 4.54 | 2.63 |
| 9/9/2003 | 16:15 | 9/9/2003 16:15 | 28.97 | 7.81 | 4800.00 | 1.16 | 64.7 | 4.90 | 2.63 |
| 9/9/2003 | 16:30 | 9/9/2003 16:30 | 28.93 | 7.77 | 4810.00 | 1.16 | 61.2 | 4.63 | 2.64 |
| 9/9/2003 | 16:45 | 9/9/2003 16:45 | 28.95 | 7.80 | 4810.00 | 1.17 | 64.0 | 4.84 | 2.64 |
| 9/9/2003 | 17:00 | 9/9/2003 17:00 | 28.95 | 7.79 | 4810.00 | 1.16 | 61.4 | 4.65 | 2.64 |
| 9/9/2003 | 17:15 | 9/9/2003 17:15 | 28.95 | 7.80 | 4820.00 | 1.17 | 63.8 | 4.83 | 2.64 |
| 9/9/2003 | 17:30 | 9/9/2003 17:30 | 28.96 | 7.82 | 4820.00 | 1.16 | 63.6 | 4.81 | 2.64 |
| 9/9/2003 | 17:45 | 9/9/2003 17:45 | 28.88 | 7.77 | 4830.00 | 1.17 | 58.8 | 4.45 | 2.65 |
| 9/9/2003 | 18:00 | 9/9/2003 18:00 | 28.87 | 7.74 | 4830.00 | 1.18 | 56.6 | 4.29 | 2.65 |
| 9/9/2003 | 18:15 | 9/9/2003 18:15 | 28.86 | 7.78 | 4820.00 | 1.18 | 61.4 | 4.66 | 2.64 |
| 9/9/2003 | 18:30 | 9/9/2003 18:30 | 28.87 | 7.84 | 4820.00 | 1.18 | 66.8 | 5.06 | 2.64 |
| 9/9/2003 | 18:45 | 9/9/2003 18:45 | 28.74 | 7.71 | 4850.00 | 1.17 | 55.8 | 4.24 | 2.66 |
| 9/9/2003 | 19:00 | 9/9/2003 19:00 | 28.74 | 7.70 | 4850.00 | 1.17 | 55.3 | 4.20 | 2.66 |
| 9/9/2003 | 19:15 | 9/9/2003 19:15 | 28.79 | 7.78 | 4870.00 | 1.18 | 61.4 | 4.65 | 2.67 |
| 9/9/2003 | 19:30 | 9/9/2003 19:30 | 28.72 | 7.74 | 4890.00 | 1.19 | 57.7 | 4.38 | 2.68 |
| 9/9/2003 | 19:45 | 9/9/2003 19:45 | 28.73 | 7.80 | 4920.00 | 1.18 | 62.7 | 4.76 | 2.70 |
| 9/9/2003 | 20:00 | 9/9/2003 20:00 | 28.75 | 7.85 | 4940.00 | 1.18 | 66.5 | 5.04 | 2.71 |
| 9/9/2003 | 20:15 | 9/9/2003 20:15 | 28.74 | 7.91 | 4960.00 | 1.19 | 71.3 | 5.41 | 2.72 |
| 9/9/2003 | 20:30 | 9/9/2003 20:30 | 28.7 | 7.92 | 4990.00 | 1.18 | 70.7 | 5.37 | 2.74 |
| 9/9/2003 | 20:45 | 9/9/2003 20:45 | 28.67 | 7.88 | 5020.00 | 1.19 | 68.3 | 5.18 | 2.75 |
| 9/9/2003 | 21:00 | 9/9/2003 21:00 | 28.65 | 7.89 | 5050.00 | 1.19 | 69.0 | 5.24 | 2.77 |
| 9/9/2003 | 21:15 | 9/9/2003 21:15 | 28.62 | 7.84 | 5070.00 | 1.20 | 64.7 | 4.92 | 2.78 |
| 9/9/2003 | 21:30 | 9/9/2003 21:30 | 28.57 | 7.82 | 5070.00 | 1.20 | 63.1 | 4.80 | 2.78 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9/9/2003 | 21:45 | 9/9/2003 21:45 | 28.57 | 7.82 | 5090.00 | 1.21 | 63.9 | 4.86 | 2.79 |
| 9/9/2003 | 22:00 | 9/9/2003 22:00 | 28.53 | 7.81 | 5090.00 | 1.20 | 63.4 | 4.82 | 2.80 |
| 9/9/2003 | 22:15 | 9/9/2003 22:15 | 28.48 | 7.78 | 5090.00 | 1.21 | 61.5 | 4.68 | 2.80 |
| 9/9/2003 | 22:30 | 9/9/2003 22:30 | 28.46 | 7.75 | 5100.00 | 1.20 | 58.9 | 4.49 | 2.80 |
| 9/9/2003 | 22:45 | 9/9/2003 22:45 | 28.43 | 7.73 | 5100.00 | 1.21 | 57.1 | 4.35 | 2.80 |
| 9/9/2003 | 23:00 | 9/9/2003 23:00 | 28.42 | 7.71 | 5100.00 | 1.19 | 55.5 | 4.23 | 2.80 |
| 9/9/2003 | 23:15 | 9/9/2003 23:15 | 28.4 | 7.69 | 5100.00 | 1.20 | 53.6 | 4.09 | 2.80 |
| 9/9/2003 | 23:30 | 9/9/2003 23:30 | 28.36 | 7.67 | 5110.00 | 1.20 | 51.6 | 3.94 | 2.80 |
| 9/9/2003 | 23:45 | 9/9/2003 23:45 | 28.36 | 7.66 | 5110.00 | 1.20 | 50.5 | 3.85 | 2.81 |
| 9/10/2003 | 0:00 | 9/10/2003 00:00 | 28.34 | 7.65 | 5110.00 | 1.20 | 49.9 | 3.81 | 2.81 |
| 9/10/2003 | 0:15 | 9/10/2003 00:15 | 28.32 | 7.64 | 5110.00 | 1.20 | 49.5 | 3.78 | 2.81 |
| 9/10/2003 | 0:30 | 9/10/2003 00:30 | 28.32 | 7.63 | 5110.00 | 1.20 | 48.3 | 3.69 | 2.81 |
| 9/10/2003 | 0:45 | 9/10/2003 00:45 | 28.31 | 7.66 | 5130.00 | 1.20 | 50.7 | 3.87 | 2.82 |
| 9/10/2003 | 1:00 | 9/10/2003 01:00 | 28.29 | 7.67 | 5140.00 | 1.21 | 51.7 | 3.95 | 2.82 |
| 9/10/2003 | 1:15 | 9/10/2003 01:15 | 28.27 | 7.67 | 5140.00 | 1.21 | 51.6 | 3.95 | 2.82 |
| 9/10/2003 | 1:30 | 9/10/2003 01:30 | 28.26 | 7.66 | 5140.00 | 1.21 | 50.0 | 3.82 | 2.82 |
| 9/10/2003 | 1:45 | 9/10/2003 01:45 | 28.22 | 7.64 | 5140.00 | 1.20 | 48.7 | 3.73 | 2.82 |
| 9/10/2003 | 2:00 | 9/10/2003 02:00 | 28.19 | 7.63 | 5130.00 | 1.21 | 48.6 | 3.72 | 2.82 |
| 9/10/2003 | 2:15 | 9/10/2003 02:15 | 28.2 | 7.64 | 5140.00 | 1.20 | 48.4 | 3.71 | 2.82 |
| 9/10/2003 | 2:30 | 9/10/2003 02:30 | 28.19 | 7.62 | 5140.00 | 1.20 | 47.5 | 3.63 | 2.82 |
| 9/10/2003 | 2:45 | 9/10/2003 02:45 | 28.16 | 7.61 | 5130.00 | 1.20 | 46.0 | 3.53 | 2.82 |
| 9/10/2003 | 3:00 | 9/10/2003 03:00 | 28.14 | 7.60 | 5130.00 | 1.20 | 44.8 | 3.44 | 2.82 |
| 9/10/2003 | 3:15 | 9/10/2003 03:15 | 28.13 | 7.59 | 5130.00 | 1.20 | 44.4 | 3.41 | 2.82 |
| 9/10/2003 | 3:30 | 9/10/2003 03:30 | 28.11 | 7.60 | 5130.00 | 1.20 | 44.6 | 3.42 | 2.82 |
| 9/10/2003 | 3:45 | 9/10/2003 03:45 | 28.09 | 7.57 | 5110.00 | 1.20 | 42.7 | 3.27 | 2.81 |
| 9/10/2003 | 4:00 | 9/10/2003 04:00 | 28.09 | 7.56 | 5110.00 | 1.20 | 41.4 | 3.18 | 2.81 |
| 9/10/2003 | 4:15 | 9/10/2003 04:15 | 28.03 | 7.53 | 5090.00 | 1.20 | 38.7 | 2.97 | 2.79 |
| 9/10/2003 | 4:30 | 9/10/2003 04:30 | 27.96 | 7.52 | 5070.00 | 1.20 | 37.6 | 2.89 | 2.79 |
| 9/10/2003 | 4:45 | 9/10/2003 04:45 | 27.98 | 7.52 | 5090.00 | 1.20 | 37.9 | 2.91 | 2.79 |
| 9/10/2003 | 5:00 | 9/10/2003 05:00 | 27.95 | 7.52 | 5080.00 | 1.20 | 37.6 | 2.89 | 2.79 |
| 9/10/2003 | 5:15 | 9/10/2003 05:15 | 27.94 | 7.52 | 5070.00 | 1.20 | 37.9 | 2.91 | 2.78 |
| 9/10/2003 | 5:30 | 9/10/2003 05:30 | 27.91 | 7.53 | 5000.00 | 1.19 | 39.6 | 3.05 | 2.75 |
| 9/10/2003 | 5:45 | 9/10/2003 05:45 | 27.91 | 7.52 | 4980.00 | 1.20 | 40.1 | 3.09 | 2.73 |
| 9/10/2003 | 6:00 | 9/10/2003 06:00 | 27.94 | 7.52 | 5000.00 | 1.19 | 39.3 | 3.02 | 2.74 |
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| 9/10/2003 | 6:30 | 9/10/2003 06:30 | 27.92 | 7.50 | 5000.00 | 1.20 | 37.6 | 2.89 | 2.74 |
| 9/10/2003 | 6:45 | 9/10/2003 06:45 | 27.89 | 7.50 | 4990.00 | 1.19 | 37.6 | 2.89 | 2.74 |
| 9/10/2003 | 7:00 | 9/10/2003 07:00 | 27.86 | 7.49 | 4960.00 | 1.19 | 37.7 | 2.90 | 2.72 |
| 9/10/2003 | 7:15 | 9/10/2003 07:15 | 27.83 | 7.49 | 4950.00 | 1.19 | 37.7 | 2.91 | 2.71 |
| 9/10/2003 | 7:30 | 9/10/2003 07:30 | 27.83 | 7.48 | 4920.00 | 1.18 | 37.6 | 2.90 | 2.70 |
| 9/10/2003 | 7:45 | 9/10/2003 07:45 | 27.83 | 7.48 | 4910.00 | 1.19 | 37.0 | 2.85 | 2.69 |
| 9/10/2003 | 8:00 | 9/10/2003 08:00 | 27.83 | 7.47 | 4900.00 | 1.19 | 35.9 | 2.77 | 2.69 |
| 9/10/2003 | 8:15 | 9/10/2003 08:15 | 27.82 | 7.46 | 4900.00 | 1.19 | 35.1 | 2.71 | 2.69 |
| 9/10/2003 | 8:30 | 9/10/2003 08:30 | 27.87 | 7.47 | 4890.00 | 1.18 | 36.2 | 2.79 | 2.68 |
| 9/10/2003 | 8:45 | 9/10/2003 08:45 | 27.88 | 7.46 | 4890.00 | 1.19 | 34.8 | 2.68 | 2.68 |
| 9/10/2003 | 9:00 | 9/10/2003 09:00 | 27.93 | 7.47 | 4890.00 | 1.19 | 35.4 | 2.73 | 2.68 |
| 9/10/2003 | 9:15 | 9/10/2003 09:15 | 27.94 | 7.45 | 4880.00 | 1.18 | 33.6 | 2.59 | 2.68 |
| 9/10/2003 | 9:30 | 9/10/2003 09:30 | 28.02 | 7.48 | 4890.00 | 1.19 | 37.9 | 2.92 | 2.68 |
| 9/10/2003 | 9:45 | 9/10/2003 09:45 | 28.12 | 7.52 | 4890.00 | 1.18 | 41.9 | 3.22 | 2.68 |
| 9/10/2003 | 10:00 | 9/10/2003 10:00 | 28.05 | 7.48 | 4880.00 | 1.18 | 36.7 | 2.82 | 2.67 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9/10/2003 | 10:15 | 9/10/2003 10:15 | 28.07 | 7.48 | 4870.00 | 1.18 | 37.5 | 2.88 | 2.67 |
| 9/10/2003 | 10:30 | 9/10/2003 10:30 | 28.11 | 7.50 | 4860.00 | 1.18 | 40.1 | 3.08 | 2.67 |
| 9/10/2003 | 10:45 | 9/10/2003 10:45 | 28.1 | 7.48 | 4850.00 | 1.18 | 37.9 | 2.91 | 2.66 |
| 9/10/2003 | 11:00 | 9/10/2003 11:00 | 28.11 | 7.48 | 4850.00 | 1.18 | 39.5 | 3.03 | 2.66 |
| 9/10/2003 | 11:15 | 9/10/2003 11:15 | 28.08 | 7.45 | 4860.00 | 1.18 | 34.7 | 2.67 | 2.66 |
| 9/10/2003 | 11:30 | 9/10/2003 11:30 | 28.06 | 7.43 | 4860.00 | 1.18 | 32.3 | 2.48 | 2.66 |
| 9/10/2003 | 11:45 | 9/10/2003 11:45 | 28.03 | 7.41 | 4860.00 | 1.18 | 29.4 | 2.26 | 2.66 |
| 9/10/2003 | 12:00 | 9/10/2003 12:00 | 28.01 | 7.40 | 4850.00 | 1.18 | 27.7 | 2.13 | 2.66 |
| 9/10/2003 | 12:15 | 9/10/2003 12:15 | 28.01 | 7.39 | 4850.00 | 1.18 | 26.8 | 2.06 | 2.66 |
| 9/10/2003 | 12:30 | 9/10/2003 12:30 | 28 | 7.38 | 4850.00 | 1.18 | 25.6 | 1.97 | 2.66 |
| 9/10/2003 | 12:45 | 9/10/2003 12:45 | 27.98 | 7.37 | 4850.00 | 1.18 | 24.6 | 1.90 | 2.66 |
| 9/10/2003 | 13:00 | 9/10/2003 13:00 | 27.95 | 7.37 | 4840.00 | 1.18 | 24.4 | 1.88 | 2.65 |
| 9/10/2003 | 13:15 | 9/10/2003 13:15 | 27.92 | 7.36 | 4840.00 | 1.18 | 23.9 | 1.84 | 2.65 |
| 9/10/2003 | 13:30 | 9/10/2003 13:30 | 27.91 | 7.37 | 4840.00 | 1.18 | 25.9 | 1.99 | 2.65 |
| 9/10/2003 | 13:45 | 9/10/2003 13:45 | 27.93 | 7.38 | 4860.00 | 1.18 | 27.5 | 2.12 | 2.67 |
| 9/10/2003 | 14:00 | 9/10/2003 14:00 | 27.98 | 7.39 | 4870.00 | 1.18 | 27.8 | 2.14 | 2.67 |
| 9/10/2003 | 14:15 | 9/10/2003 14:15 | 27.96 | 7.39 | 4880.00 | 1.18 | 27.9 | 2.15 | 2.67 |
| 9/10/2003 | 14:30 | 9/10/2003 14:30 | 28 | 7.40 | 4870.00 | 1.18 | 28.8 | 2.21 | 2.67 |
| 9/10/2003 | 14:45 | 9/10/2003 14:45 | 28.01 | 7.41 | 4880.00 | 1.18 | 30.2 | 2.32 | 2.67 |
| 9/10/2003 | 15:00 | 9/10/2003 15:00 | 28.03 | 7.42 | 4870.00 | 1.18 | 31.1 | 2.39 | 2.67 |
| 9/10/2003 | 15:15 | 9/10/2003 15:15 | 28.04 | 7.42 | 4880.00 | 1.19 | 31.3 | 2.41 | 2.68 |
| 9/10/2003 | 15:30 | 9/10/2003 15:30 | 28.02 | 7.41 | 4900.00 | 1.18 | 30.4 | 2.34 | 2.68 |
| 9/10/2003 | 15:45 | 9/10/2003 15:45 | 28.05 | 7.45 | 4900.00 | 1.18 | 35.2 | 2.70 | 2.69 |
| 9/10/2003 | 16:00 | 9/10/2003 16:00 | 28.04 | 7.45 | 4920.00 | 1.19 | 34.9 | 2.68 | 2.70 |
| 9/10/2003 | 16:15 | 9/10/2003 16:15 | 28.04 | 7.45 | 4940.00 | 1.19 | 34.2 | 2.63 | 2.71 |
| 9/10/2003 | 16:30 | 9/10/2003 16:30 | 28.03 | 7.45 | 4970.00 | 1.19 | 34.0 | 2.61 | 2.73 |
| 9/10/2003 | 16:45 | 9/10/2003 16:45 | 28.04 | 7.46 | 5000.00 | 1.19 | 34.9 | 2.68 | 2.74 |
| 9/10/2003 | 17:00 | 9/10/2003 17:00 | 28.08 | 7.50 | 5040.00 | 1.19 | 39.7 | 3.05 | 2.77 |
| 9/10/2003 | 17:15 | 9/10/2003 17:15 | 28.17 | 7.56 | 5030.00 | 1.20 | 46.1 | 3.54 | 2.76 |
| 9/10/2003 | 17:30 | 9/10/2003 17:30 | 28.27 | 7.62 | 5050.00 | 1.19 | 53.8 | 4.11 | 2.77 |
| 9/10/2003 | 17:45 | 9/10/2003 17:45 | 28.44 | 7.74 | 5080.00 | 1.19 | 64.9 | 4.95 | 2.79 |
| 9/10/2003 | 18:00 | 9/10/2003 18:00 | 28.56 | 7.76 | 5080.00 | 1.19 | 66.5 | 5.06 | 2.79 |
| 9/10/2003 | 18:15 | 9/10/2003 18:15 | 28.46 | 7.70 | 5090.00 | 1.19 | 60.6 | 4.62 | 2.79 |
| 9/10/2003 | 18:30 | 9/10/2003 18:30 | 28.37 | 7.64 | 5090.00 | 1.19 | 55.6 | 4.24 | 2.80 |
| 9/10/2003 | 18:45 | 9/10/2003 18:45 | 28.31 | 7.59 | 5110.00 | 1.20 | 50.9 | 3.89 | 2.80 |
| 9/10/2003 | 19:00 | 9/10/2003 19:00 | 28.31 | 7.58 | 5110.00 | 1.20 | 50.0 | 3.82 | 2.81 |
| 9/10/2003 | 19:15 | 9/10/2003 19:15 | 28.33 | 7.59 | 5120.00 | 1.19 | 51.3 | 3.92 | 2.81 |
| 9/10/2003 | 19:30 | 9/10/2003 19:30 | 28.3 | 7.57 | 5120.00 | 1.20 | 48.8 | 3.71 | 2.82 |
| 9/10/2003 | 19:45 | 9/10/2003 19:45 | 28.27 | 7.56 | 5130.00 | 1.20 | 45.6 | 3.48 | 2.82 |
| 9/10/2003 | 20:00 | 9/10/2003 20:00 | 28.4 | 7.60 | 5150.00 | 1.20 | 50.6 | 3.86 | 2.83 |
| 9/10/2003 | 20:15 | 9/10/2003 20:15 | 28.28 | 7.56 | 5160.00 | 1.20 | 45.6 | 3.48 | 2.84 |
| 9/10/2003 | 20:30 | 9/10/2003 20:30 | 28.21 | 7.52 | 5170.00 | 1.20 | 41.9 | 3.21 | 2.84 |
| 9/10/2003 | 20:45 | 9/10/2003 20:45 | 28.36 | 7.56 | 5200.00 | 1.20 | 47.0 | 3.59 | 2.86 |
| 9/10/2003 | 21:00 | 9/10/2003 21:00 | 28.4 | 7.56 | 5200.00 | 1.20 | 46.3 | 3.53 | 2.86 |
| 9/10/2003 | 21:15 | 9/10/2003 21:15 | 28.56 | 7.60 | 5240.00 | 1.21 | 51.4 | 3.91 | 2.88 |
| 9/10/2003 | 21:30 | 9/10/2003 21:30 | 28.36 | 7.52 | 5270.00 | 1.20 | 42.4 | 3.24 | 2.90 |
| 9/10/2003 | 21:45 | 9/10/2003 21:45 | 28.56 | 7.54 | 5340.00 | 1.21 | 46.3 | 3.52 | 2.93 |
| 9/10/2003 | 22:00 | 9/10/2003 22:00 | 28.57 | 7.54 | 5350.00 | 1.21 | 46.0 | 3.50 | 2.94 |
| 9/10/2003 | 22:15 | 9/10/2003 22:15 | 28.65 | 7.55 | 5250.00 | 1.21 | 44.1 | 3.35 | 2.89 |
| 9/10/2003 | 22:30 | 9/10/2003 22:30 | 28.59 | 7.54 | 5320.00 | 1.21 | 45.6 | 3.47 | 2.93 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9/10/2003 | 22:45 | 9/10/2003 22:45 | 28.81 | 7.60 | 5310.00 | 1.21 | 51.8 | 3.92 | 2.92 |
| 9/10/2003 | 23:00 | 9/10/2003 23:00 | 28.73 | 7.57 | 5290.00 | 1.21 | 48.3 | 3.66 | 2.91 |
| 9/10/2003 | 23:15 | 9/10/2003 23:15 | 28.69 | 7.54 | 5330.00 | 1.21 | 45.1 | 3.42 | 2.93 |
| 9/10/2003 | 23:30 | 9/10/2003 23:30 | 28.73 | 7.52 | 5330.00 | 1.21 | 42.7 | 3.24 | 2.93 |
| 9/10/2003 | 23:45 | 9/10/2003 23:45 | 28.74 | 7.51 | 5270.00 | 1.21 | 38.6 | 2.93 | 2.90 |
| 9/11/2003 | 0:00 | 9/11/2003 00:00 | 28.72 | 7.49 | 5310.00 | 1.21 | 39.2 | 2.97 | 2.92 |
| 9/11/2003 | 0:15 | 9/11/2003 00:15 | 28.81 | 7.54 | 5330.00 | 1.21 | 45.2 | 3.42 | 2.93 |
| 9/11/2003 | 0:30 | 9/11/2003 00:30 | 28.69 | 7.47 | 5420.00 | 1.21 | 38.2 | 2.89 | 2.98 |
| 9/11/2003 | 0:45 | 9/11/2003 00:45 | 28.62 | 7.44 | 5460.00 | 1.21 | 35.7 | 2.71 | 3.01 |
| 9/11/2003 | 1:00 | 9/11/2003 01:00 | 28.64 | 7.44 | 5480.00 | 1.21 | 34.3 | 2.60 | 3.02 |
| 9/11/2003 | 1:15 | 9/11/2003 01:15 | 28.59 | 7.43 | 5470.00 | 1.20 | 33.0 | 2.51 | 3.01 |
| 9/11/2003 | 1:30 | 9/11/2003 01:30 | 28.57 | 7.43 | 5450.00 | 1.21 | 32.2 | 2.45 | 3.00 |
| 9/11/2003 | 1:45 | 9/11/2003 01:45 | 28.5 | 7.42 | 5440.00 | 1.20 | 31.2 | 2.37 | 2.99 |
| 9/11/2003 | 2:00 | 9/11/2003 02:00 | 28.45 | 7.40 | 5390.00 | 1.21 | 28.9 | 2.20 | 2.96 |
| 9/11/2003 | 2:15 | 9/11/2003 02:15 | 28.35 | 7.40 | 5360.00 | 1.20 | 27.8 | 2.12 | 2.95 |
| 9/11/2003 | 2:30 | 9/11/2003 02:30 | 28.41 | 7.40 | 5400.00 | 1.20 | 29.2 | 2.23 | 2.97 |
| 9/11/2003 | 2:45 | 9/11/2003 02:45 | 28.32 | 7.39 | 5370.00 | 1.20 | 28.1 | 2.15 | 2.95 |
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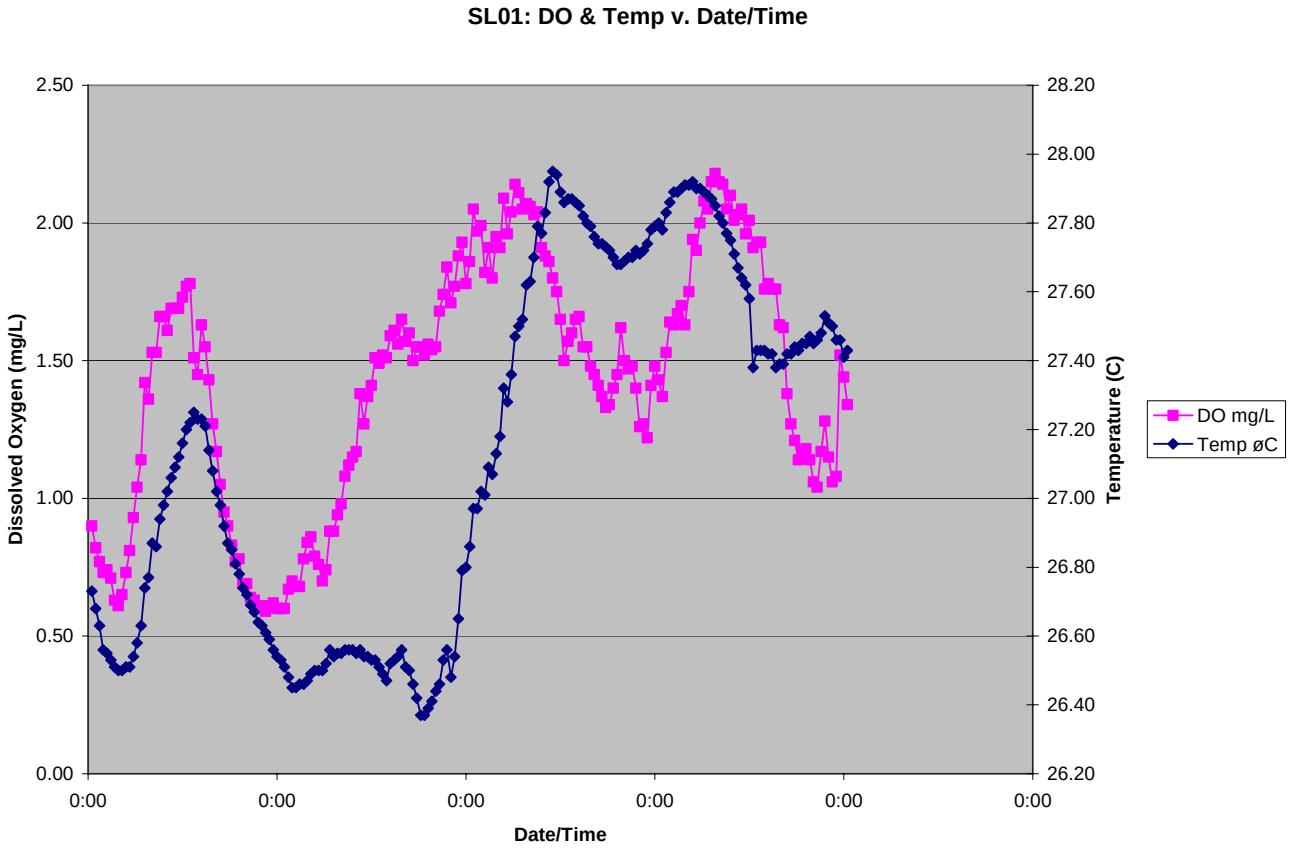
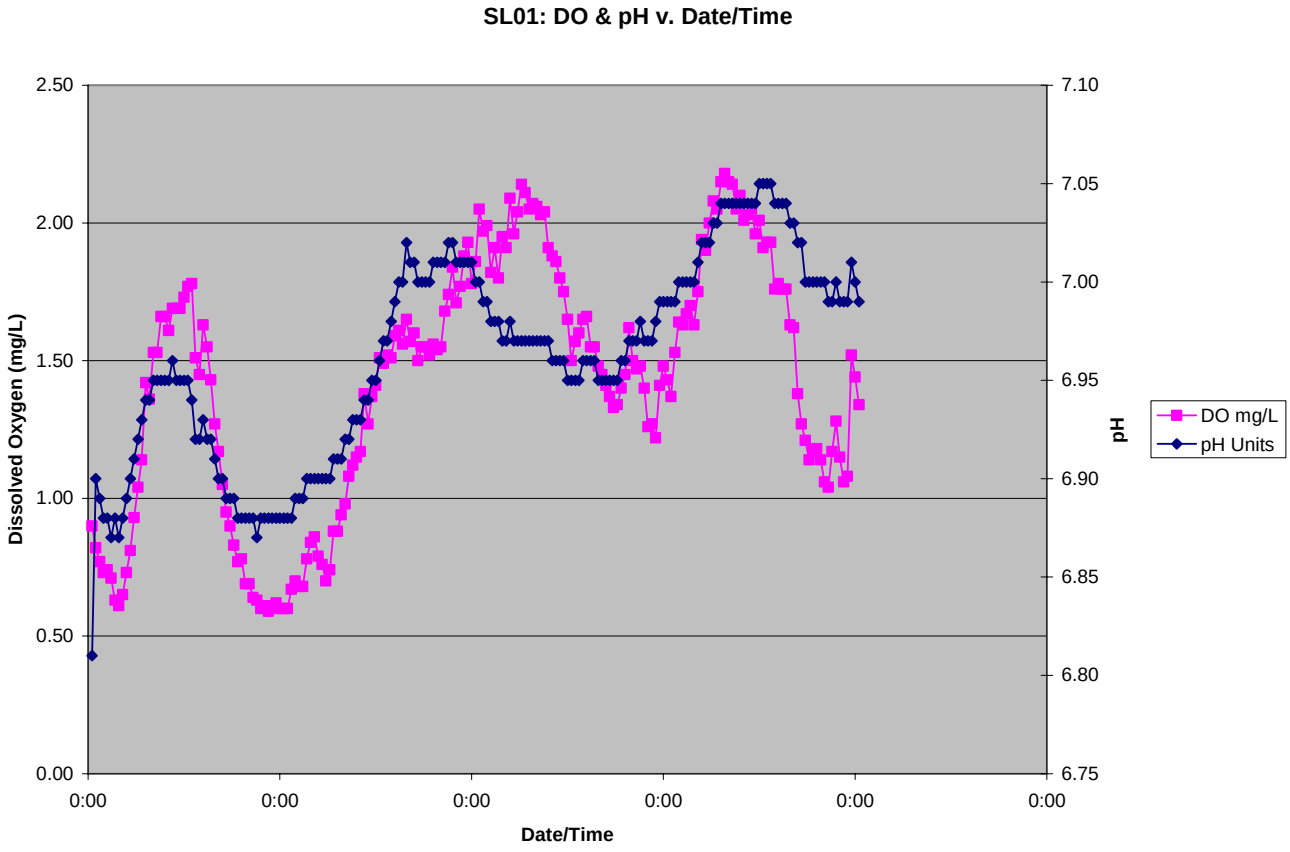
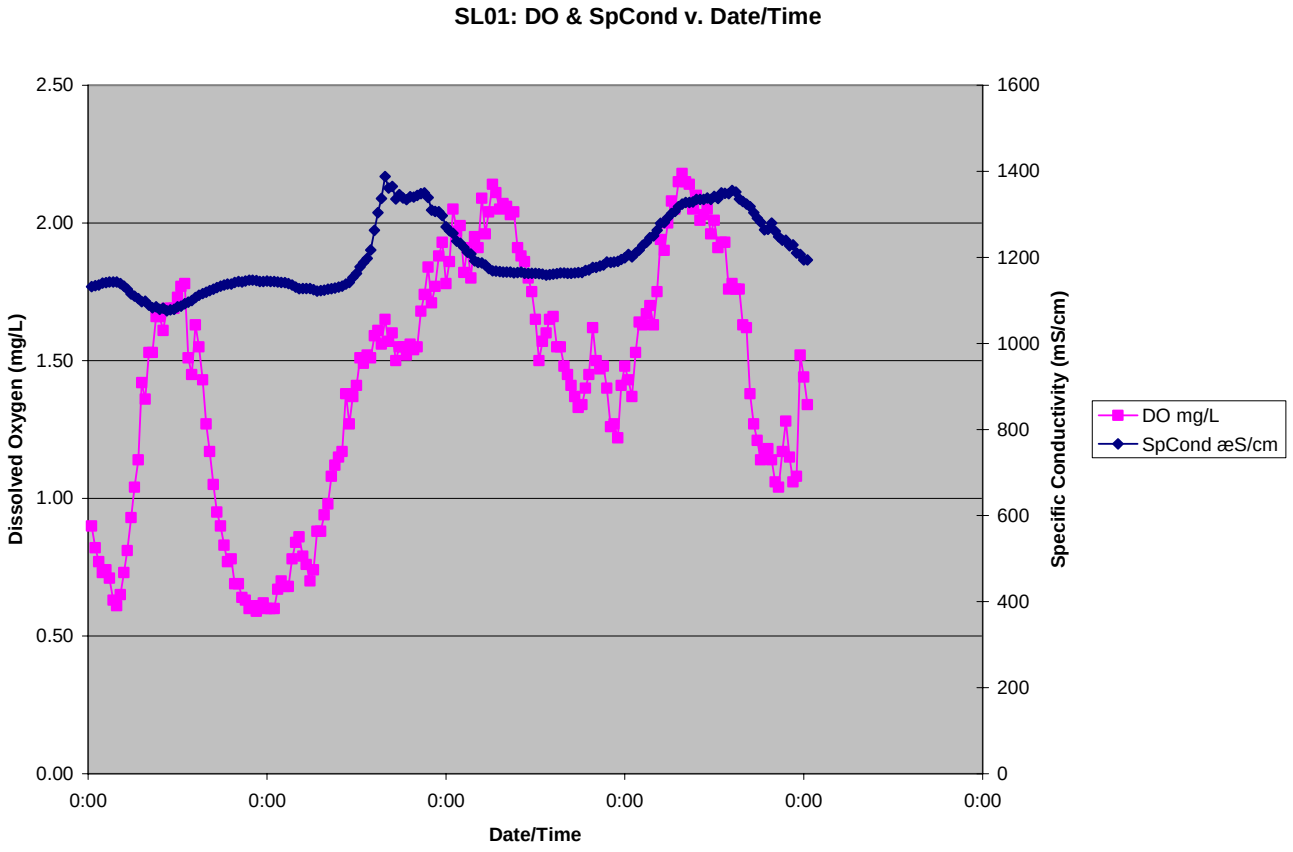
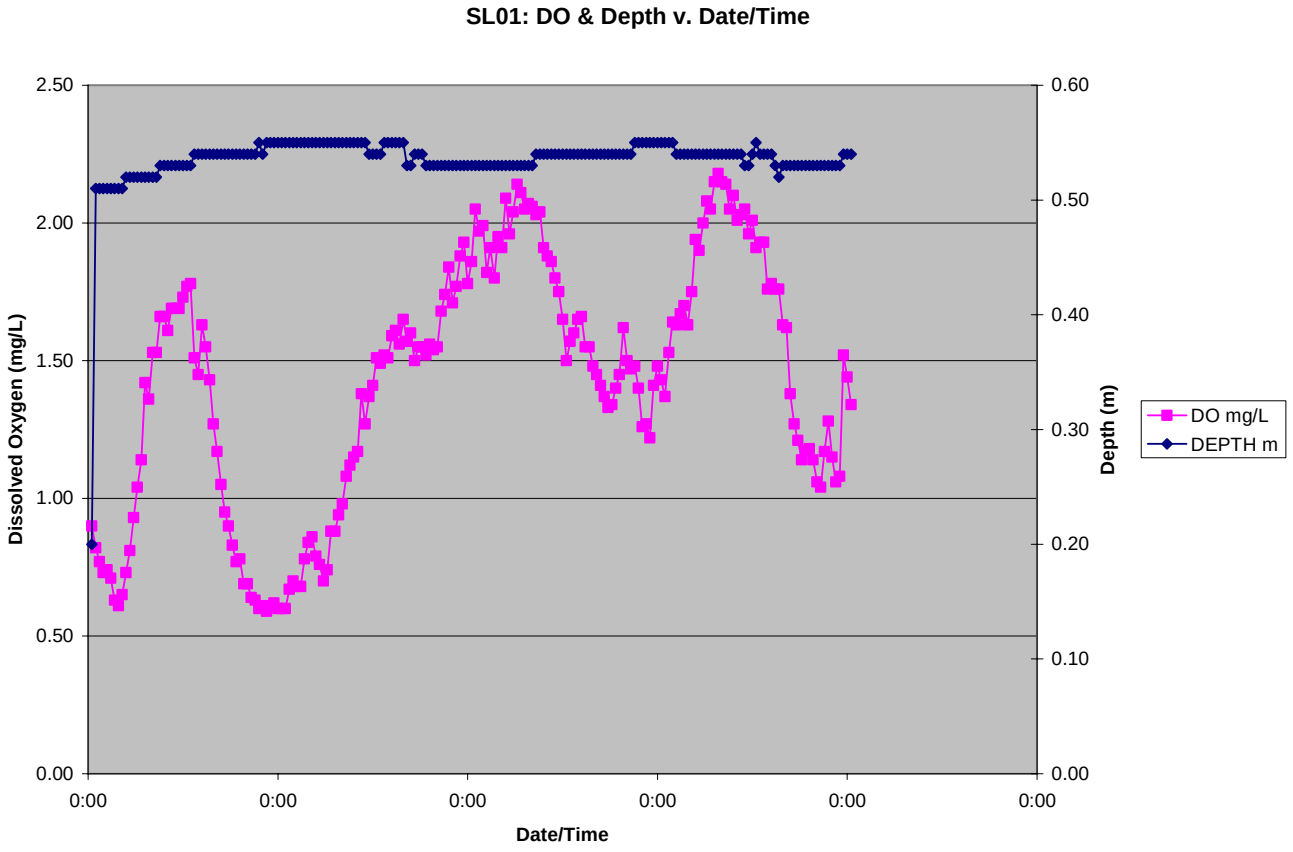
| 9/11/2003 | 3:15 | 9/11/2003 03:15 | 28.31 | 7.39 | 5330.00 | 1.21 | 26.8 | 2.05 | 2.93 |
| 9/11/2003 | 3:30 | 9/11/2003 03:30 | 28.18 | 7.36 | 5240.00 | 1.20 | 21.6 | 1.65 | 2.88 |
| 9/11/2003 | 3:45 | 9/11/2003 03:45 | 28.14 | 7.35 | 5190.00 | 1.20 | 19.4 | 1.49 | 2.85 |
| 9/11/2003 | 4:00 | 9/11/2003 04:00 | 28.07 | 7.34 | 5150.00 | 1.20 | 16.5 | 1.27 | 2.83 |
| 9/11/2003 | 4:15 | 9/11/2003 04:15 | 28.06 | 7.34 | 5140.00 | 1.21 | 16.4 | 1.26 | 2.82 |
| 9/11/2003 | 4:30 | 9/11/2003 04:30 | 28.11 | 7.34 | 5130.00 | 1.20 | 17.0 | 1.30 | 2.82 |
| 9/11/2003 | 4:45 | 9/11/2003 04:45 | 28.14 | 7.34 | 5140.00 | 1.20 | 17.9 | 1.37 | 2.83 |
| 9/11/2003 | 5:00 | 9/11/2003 05:00 | 28.17 | 7.35 | 5140.00 | 1.20 | 18.6 | 1.42 | 2.82 |
| 9/11/2003 | 5:15 | 9/11/2003 05:15 | 28.12 | 7.34 | 5120.00 | 1.19 | 17.6 | 1.35 | 2.81 |
| 9/11/2003 | 5:30 | 9/11/2003 05:30 | 28.09 | 7.33 | 5100.00 | 1.20 | 16.2 | 1.25 | 2.80 |
| 9/11/2003 | 5:45 | 9/11/2003 05:45 | 28.08 | 7.33 | 5060.00 | 1.20 | 15.8 | 1.21 | 2.78 |
| 9/11/2003 | 6:00 | 9/11/2003 06:00 | 28.03 | 7.30 | 4910.00 | 1.20 | 13.7 | 1.05 | 2.69 |
| 9/11/2003 | 6:15 | 9/11/2003 06:15 | 28.06 | 7.31 | 5020.00 | 1.20 | 15.1 | 1.16 | 2.75 |
| 9/11/2003 | 6:30 | 9/11/2003 06:30 | 28.05 | 7.35 | 4950.00 | 1.20 | 19.1 | 1.46 | 2.71 |
| 9/11/2003 | 6:45 | 9/11/2003 06:45 | 28.07 | 7.45 | 4870.00 | 1.19 | 38.9 | 2.99 | 2.67 |
| 9/11/2003 | 7:00 | 9/11/2003 07:00 | 28.06 | 7.42 | 4910.00 | 1.19 | 32.7 | 2.51 | 2.69 |
| 9/11/2003 | 7:15 | 9/11/2003 07:15 | 28.06 | 7.38 | 4910.00 | 1.20 | 27.3 | 2.09 | 2.69 |
| 9/11/2003 | 7:30 | 9/11/2003 07:30 | 28.05 | 7.45 | 4870.00 | 1.20 | 39.9 | 3.07 | 2.67 |
| 9/11/2003 | 7:45 | 9/11/2003 07:45 | 28.07 | 7.41 | 4900.00 | 1.20 | 32.5 | 2.49 | 2.69 |
| 9/11/2003 | 8:00 | 9/11/2003 08:00 | 28.06 | 7.38 | 4950.00 | 1.20 | 29.3 | 2.25 | 2.72 |
| 9/11/2003 | 8:15 | 9/11/2003 08:15 | 28.08 | 7.43 | 4930.00 | 1.20 | 37.7 | 2.89 | 2.70 |
| 9/11/2003 | 8:30 | 9/11/2003 08:30 | 28.1 | 7.43 | 4900.00 | 1.20 | 37.0 | 2.84 | 2.69 |
| 9/11/2003 | 8:45 | 9/11/2003 08:45 | 28.1 | 7.42 | 4900.00 | 1.20 | 36.0 | 2.77 | 2.69 |
| 9/11/2003 | 9:00 | 9/11/2003 09:00 | 28.09 | 7.41 | 4910.00 | 1.20 | 34.3 | 2.63 | 2.69 |
| 9/11/2003 | 9:15 | 9/11/2003 09:15 | 28.17 | 7.48 | 4860.00 | 1.20 | 46.1 | 3.54 | 2.67 |
| 9/11/2003 | 9:30 | 9/11/2003 09:30 | 28.1 | 7.41 | 4910.00 | 1.20 | 35.1 | 2.69 | 2.69 |
| 9/11/2003 | 9:45 | 9/11/2003 09:45 | 28.11 | 7.42 | 4900.00 | 1.20 | 35.8 | 2.74 | 2.69 |
| 9/11/2003 | 10:00 | 9/11/2003 10:00 | 28.11 | 7.42 | 4900.00 | 1.20 | 36.2 | 2.78 | 2.69 |
| 9/11/2003 | 10:15 | 9/11/2003 10:15 | 28.12 | 7.42 | 4900.00 | 1.21 | 35.6 | 2.73 | 2.69 |
| 9/11/2003 | 10:30 | 9/11/2003 10:30 | 28.13 | 7.41 | 4920.00 | 1.21 | 35.4 | 2.71 | 2.70 |
| 9/11/2003 | 10:45 | 9/11/2003 10:45 | 28.14 | 7.41 | 4940.00 | 1.20 | 33.9 | 2.60 | 2.71 |
| 9/11/2003 | 11:00 | 9/11/2003 11:00 | 28.15 | 7.42 | 4920.00 | 1.20 | 36.0 | 2.76 | 2.70 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9/11/2003 | 11:15 | 9/11/2003 11:15 | 28.18 | 7.43 | 4940.00 | 1.22 | 36.3 | 2.78 | 2.71 |
| 9/11/2003 | 11:30 | 9/11/2003 11:30 | 28.41 | 7.66 | 4930.00 | 0.81 | 68.8 | 5.26 | 2.71 |
| **Average** | | | **28.34** | **7.54** | **4997.99** | **1.19** | **42.3** | **3.226** | **2.74** |
| **Minimum** | | | **27.82** | **7.30** | **4560.00** | **0.81** | **13.7** | **1.05** | **2.50** |
| **Maximum** | | | **29.02** | **7.92** | **5480.00** | **1.22** | **71.3** | **5.41** | **3.02** |


SL01: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
Temperature (C)
28.20
28.00
27.80
27.60
27.40
27.20
27.00
26.80
26.60
26.40
26.20
0:00
0:00
0:00
0:00
0:00
0:00
Date/Time
DO mg/L
Temp øC


SL01: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
pH
7.10
7.05
7.00
6.95
6.90
6.85
6.80
6.75
0:00
0:00
0:00
0:00
0:00
0:00
Date/Time
DO mg/L
pH Units


SL01: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
Specific Conductivity (mS/cm)
1600
1400
1200
1000
800
600
400
200
0
0:00
0:00
0:00
0:00
0:00
0:00
Date/Time
DO mg/L
SpCond æS/cm


SL01: DO & Depth v. Date/Time
Dissolved Oxygen (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
Depth (m)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0:00
0:00
0:00
0:00
0:00
0:00
Date/Time
DO mg/L
DEPTH m

# Bayou Chauvin 120507 Site
# SL01
# Continuous Monitoring Data

| Date_ MMDDYY | Time HHMM | Date+Time MMDDYYYY HHMM | Temp øC | pH Units | SpCond æS/cm | DEPTH m | DO PERCENT Sat | DO mg/L | SALINITY ppt |
|---|---|---|---|---|---|---|---|---|---|
| 9/9/2003 | 10:45 | 9/9/2003 10:45 | 26.73 | 6.81 | 1132 | 0.20 | 11.3 | 0.90 | 0.56 |
| 9/9/2003 | 11:00 | 9/9/2003 11:00 | 26.68 | 6.90 | 1134 | 0.51 | 10.3 | 0.82 | 0.56 |
| 9/9/2003 | 11:15 | 9/9/2003 11:15 | 26.63 | 6.89 | 1136 | 0.51 | 9.6 | 0.77 | 0.56 |
| 9/9/2003 | 11:30 | 9/9/2003 11:30 | 26.56 | 6.88 | 1140 | 0.51 | 9.7 | 0.73 | 0.56 |
| 9/9/2003 | 11:45 | 9/9/2003 11:45 | 26.55 | 6.88 | 1141 | 0.51 | 9.3 | 0.74 | 0.56 |
| 9/9/2003 | 12:00 | 9/9/2003 12:00 | 26.53 | 6.87 | 1143 | 0.51 | 8.9 | 0.71 | 0.57 |
| 9/9/2003 | 12:15 | 9/9/2003 12:15 | 26.51 | 6.88 | 1143 | 0.51 | 7.9 | 0.63 | 0.57 |
| 9/9/2003 | 12:30 | 9/9/2003 12:30 | 26.50 | 6.87 | 1143 | 0.51 | 7.6 | 0.61 | 0.57 |
| 9/9/2003 | 12:45 | 9/9/2003 12:45 | 26.50 | 6.88 | 1139 | 0.51 | 8.1 | 0.65 | 0.56 |
| 9/9/2003 | 13:00 | 9/9/2003 13:00 | 26.51 | 6.89 | 1133 | 0.52 | 9.2 | 0.73 | 0.56 |
| 9/9/2003 | 13:15 | 9/9/2003 13:15 | 26.51 | 6.90 | 1126 | 0.52 | 10.1 | 0.81 | 0.56 |
| 9/9/2003 | 13:30 | 9/9/2003 13:30 | 26.54 | 6.91 | 1115 | 0.52 | 11.6 | 0.93 | 0.55 |
| 9/9/2003 | 13:45 | 9/9/2003 13:45 | 26.58 | 6.92 | 1110 | 0.52 | 13.0 | 1.04 | 0.55 |
| 9/9/2003 | 14:00 | 9/9/2003 14:00 | 26.63 | 6.93 | 1104 | 0.52 | 14.3 | 1.14 | 0.55 |
| 9/9/2003 | 14:15 | 9/9/2003 14:15 | 26.74 | 6.94 | 1097 | 0.52 | 17.8 | 1.42 | 0.54 |
| 9/9/2003 | 14:30 | 9/9/2003 14:30 | 26.77 | 6.94 | 1098 | 0.52 | 17.0 | 1.36 | 0.54 |
| 9/9/2003 | 14:45 | 9/9/2003 14:45 | 26.87 | 6.95 | 1089 | 0.52 | 19.3 | 1.53 | 0.54 |
| 9/9/2003 | 15:00 | 9/9/2003 15:00 | 26.86 | 6.95 | 1083 | 0.52 | 19.2 | 1.53 | 0.53 |
| 9/9/2003 | 15:15 | 9/9/2003 15:15 | 26.94 | 6.95 | 1085 | 0.53 | 20.9 | 1.66 | 0.54 |
| 9/9/2003 | 15:30 | 9/9/2003 15:30 | 26.98 | 6.95 | 1079 | 0.53 | 20.9 | 1.66 | 0.53 |
| 9/9/2003 | 15:45 | 9/9/2003 15:45 | 27.02 | 6.95 | 1082 | 0.53 | 20.3 | 1.61 | 0.53 |
| 9/9/2003 | 16:00 | 9/9/2003 16:00 | 27.06 | 6.96 | 1076 | 0.53 | 21.3 | 1.69 | 0.53 |
| 9/9/2003 | 16:15 | 9/9/2003 16:15 | 27.09 | 6.95 | 1078 | 0.53 | 21.3 | 1.69 | 0.53 |
| 9/9/2003 | 16:30 | 9/9/2003 16:30 | 27.12 | 6.95 | 1079 | 0.53 | 21.4 | 1.69 | 0.53 |
| 9/9/2003 | 16:45 | 9/9/2003 16:45 | 27.16 | 6.95 | 1085 | 0.53 | 21.9 | 1.73 | 0.54 |
| 9/9/2003 | 17:00 | 9/9/2003 17:00 | 27.20 | 6.95 | 1087 | 0.53 | 22.3 | 1.77 | 0.54 |
| 9/9/2003 | 17:15 | 9/9/2003 17:15 | 27.22 | 6.94 | 1092 | 0.53 | 22.5 | 1.78 | 0.54 |
| 9/9/2003 | 17:30 | 9/9/2003 17:30 | 27.25 | 6.92 | 1096 | 0.54 | 19.2 | 1.51 | 0.54 |
| 9/9/2003 | 17:45 | 9/9/2003 17:45 | 27.23 | 6.92 | 1100 | 0.54 | 18.3 | 1.45 | 0.54 |
| 9/9/2003 | 18:00 | 9/9/2003 18:00 | 27.23 | 6.93 | 1107 | 0.54 | 20.6 | 1.63 | 0.55 |
| 9/9/2003 | 18:15 | 9/9/2003 18:15 | 27.21 | 6.92 | 1112 | 0.54 | 19.6 | 1.55 | 0.55 |
| 9/9/2003 | 18:30 | 9/9/2003 18:30 | 27.14 | 6.92 | 1116 | 0.54 | 18.0 | 1.43 | 0.55 |
| 9/9/2003 | 18:45 | 9/9/2003 18:45 | 27.08 | 6.91 | 1119 | 0.54 | 16.1 | 1.27 | 0.55 |
| 9/9/2003 | 19:00 | 9/9/2003 19:00 | 27.02 | 6.90 | 1123 | 0.54 | 14.8 | 1.17 | 0.56 |
| 9/9/2003 | 19:15 | 9/9/2003 19:15 | 26.98 | 6.90 | 1126 | 0.54 | 13.2 | 1.05 | 0.56 |
| 9/9/2003 | 19:30 | 9/9/2003 19:30 | 26.92 | 6.89 | 1130 | 0.54 | 12.0 | 0.95 | 0.56 |
| 9/9/2003 | 19:45 | 9/9/2003 19:45 | 26.87 | 6.89 | 1133 | 0.54 | 11.3 | 0.90 | 0.56 |
| 9/9/2003 | 20:00 | 9/9/2003 20:00 | 26.85 | 6.89 | 1136 | 0.54 | 10.4 | 0.83 | 0.56 |
| 9/9/2003 | 20:15 | 9/9/2003 20:15 | 26.81 | 6.88 | 1138 | 0.54 | 9.6 | 0.77 | 0.56 |
| 9/9/2003 | 20:30 | 9/9/2003 20:30 | 26.78 | 6.88 | 1138 | 0.54 | 9.8 | 0.78 | 0.56 |
| 9/9/2003 | 20:45 | 9/9/2003 20:45 | 26.74 | 6.88 | 1142 | 0.54 | 8.6 | 0.69 | 0.57 |
| 9/9/2003 | 21:00 | 9/9/2003 21:00 | 26.72 | 6.88 | 1144 | 0.54 | 8.7 | 0.69 | 0.57 |
| 9/9/2003 | 21:15 | 9/9/2003 21:15 | 26.69 | 6.88 | 1143 | 0.54 | 8.0 | 0.64 | 0.57 |
| 9/9/2003 | 21:30 | 9/9/2003 21:30 | 26.67 | 6.87 | 1145 | 0.54 | 8.0 | 0.63 | 0.57 |

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|---|---|---|---|---|---|---|---|---|---|
| 9/9/2003 | 21:45 | 9/9/2003 21:45 | 26.64 | 6.88 | 1147 | 0.55 | 7.5 | 0.60 | 0.57 |
| 9/9/2003 | 22:00 | 9/9/2003 22:00 | 26.63 | 6.88 | 1147 | 0.54 | 7.7 | 0.61 | 0.57 |
| 9/9/2003 | 22:15 | 9/9/2003 22:15 | 26.61 | 6.88 | 1146 | 0.55 | 7.4 | 0.59 | 0.57 |
| 9/9/2003 | 22:30 | 9/9/2003 22:30 | 26.59 | 6.88 | 1144 | 0.55 | 7.7 | 0.61 | 0.57 |
| 9/9/2003 | 22:45 | 9/9/2003 22:45 | 26.56 | 6.88 | 1144 | 0.55 | 7.8 | 0.62 | 0.57 |
| 9/9/2003 | 23:00 | 9/9/2003 23:00 | 26.54 | 6.88 | 1145 | 0.55 | 7.5 | 0.60 | 0.57 |
| 9/9/2003 | 23:15 | 9/9/2003 23:15 | 26.53 | 6.88 | 1144 | 0.55 | 7.5 | 0.60 | 0.57 |
| 9/9/2003 | 23:30 | 9/9/2003 23:30 | 26.51 | 6.88 | 1144 | 0.55 | 7.5 | 0.60 | 0.57 |
| 9/9/2003 | 23:45 | 9/9/2003 23:45 | 26.48 | 6.88 | 1143 | 0.55 | 8.4 | 0.67 | 0.57 |
| 9/10/2003 | 0:00 | 9/10/2003 00:00 | 26.45 | 6.89 | 1142 | 0.55 | 8.7 | 0.70 | 0.57 |
| 9/10/2003 | 0:15 | 9/10/2003 00:15 | 26.45 | 6.89 | 1141 | 0.55 | 8.4 | 0.68 | 0.56 |
| 9/10/2003 | 0:30 | 9/10/2003 00:30 | 26.46 | 6.89 | 1139 | 0.55 | 8.4 | 0.68 | 0.56 |
| 9/10/2003 | 0:45 | 9/10/2003 00:45 | 26.46 | 6.90 | 1136 | 0.55 | 9.7 | 0.78 | 0.56 |
| 9/10/2003 | 1:00 | 9/10/2003 01:00 | 26.47 | 6.90 | 1131 | 0.55 | 10.5 | 0.84 | 0.56 |
| 9/10/2003 | 1:15 | 9/10/2003 01:15 | 26.49 | 6.90 | 1127 | 0.55 | 10.8 | 0.86 | 0.56 |
| 9/10/2003 | 1:30 | 9/10/2003 01:30 | 26.50 | 6.90 | 1128 | 0.55 | 9.9 | 0.79 | 0.56 |
| 9/10/2003 | 1:45 | 9/10/2003 01:45 | 26.50 | 6.90 | 1128 | 0.55 | 9.5 | 0.76 | 0.56 |
| 9/10/2003 | 2:00 | 9/10/2003 02:00 | 26.50 | 6.90 | 1128 | 0.55 | 8.7 | 0.70 | 0.56 |
| 9/10/2003 | 2:15 | 9/10/2003 02:15 | 26.52 | 6.90 | 1125 | 0.55 | 9.3 | 0.74 | 0.56 |
| 9/10/2003 | 2:30 | 9/10/2003 02:30 | 26.56 | 6.91 | 1122 | 0.55 | 11.0 | 0.88 | 0.56 |
| 9/10/2003 | 2:45 | 9/10/2003 02:45 | 26.54 | 6.91 | 1123 | 0.55 | 11.0 | 0.88 | 0.56 |
| 9/10/2003 | 3:00 | 9/10/2003 03:00 | 26.55 | 6.91 | 1124 | 0.55 | 11.7 | 0.94 | 0.56 |
| 9/10/2003 | 3:15 | 9/10/2003 03:15 | 26.55 | 6.92 | 1126 | 0.55 | 12.3 | 0.98 | 0.56 |
| 9/10/2003 | 3:30 | 9/10/2003 03:30 | 26.56 | 6.92 | 1127 | 0.55 | 13.5 | 1.08 | 0.56 |
| 9/10/2003 | 3:45 | 9/10/2003 03:45 | 26.56 | 6.93 | 1129 | 0.55 | 14.0 | 1.12 | 0.56 |
| 9/10/2003 | 4:00 | 9/10/2003 04:00 | 26.56 | 6.93 | 1131 | 0.55 | 14.3 | 1.15 | 0.56 |
| 9/10/2003 | 4:15 | 9/10/2003 04:15 | 26.55 | 6.93 | 1133 | 0.55 | 14.6 | 1.17 | 0.56 |
| 9/10/2003 | 4:30 | 9/10/2003 04:30 | 26.56 | 6.94 | 1138 | 0.55 | 17.2 | 1.38 | 0.56 |
| 9/10/2003 | 4:45 | 9/10/2003 04:45 | 26.54 | 6.94 | 1142 | 0.55 | 15.8 | 1.27 | 0.57 |
| 9/10/2003 | 5:00 | 9/10/2003 05:00 | 26.54 | 6.95 | 1153 | 0.54 | 17.1 | 1.37 | 0.57 |
| 9/10/2003 | 5:15 | 9/10/2003 05:15 | 26.53 | 6.95 | 1163 | 0.54 | 17.6 | 1.41 | 0.58 |
| 9/10/2003 | 5:30 | 9/10/2003 05:30 | 26.53 | 6.96 | 1178 | 0.54 | 18.8 | 1.51 | 0.58 |
| 9/10/2003 | 5:45 | 9/10/2003 05:45 | 26.51 | 6.97 | 1188 | 0.54 | 18.6 | 1.49 | 0.59 |
| 9/10/2003 | 6:00 | 9/10/2003 06:00 | 26.49 | 6.97 | 1198 | 0.55 | 19.0 | 1.52 | 0.60 |
| 9/10/2003 | 6:15 | 9/10/2003 06:15 | 26.47 | 6.98 | 1217 | 0.55 | 18.9 | 1.51 | 0.60 |
| 9/10/2003 | 6:30 | 9/10/2003 06:30 | 26.52 | 6.99 | 1263 | 0.55 | 19.8 | 1.59 | 0.63 |
| 9/10/2003 | 6:45 | 9/10/2003 06:45 | 26.53 | 7.00 | 1304 | 0.55 | 20.1 | 1.61 | 0.65 |
| 9/10/2003 | 7:00 | 9/10/2003 07:00 | 26.54 | 7.00 | 1337 | 0.55 | 19.6 | 1.56 | 0.67 |
| 9/10/2003 | 7:15 | 9/10/2003 07:15 | 26.56 | 7.02 | 1388 | 0.55 | 20.6 | 1.65 | 0.69 |
| 9/10/2003 | 7:30 | 9/10/2003 07:30 | 26.51 | 7.01 | 1361 | 0.53 | 19.7 | 1.57 | 0.68 |
| 9/10/2003 | 7:45 | 9/10/2003 07:45 | 26.50 | 7.01 | 1365 | 0.53 | 19.9 | 1.60 | 0.68 |
| 9/10/2003 | 8:00 | 9/10/2003 08:00 | 26.46 | 7.00 | 1336 | 0.54 | 18.7 | 1.50 | 0.67 |
| 9/10/2003 | 8:15 | 9/10/2003 08:15 | 26.42 | 7.00 | 1346 | 0.54 | 19.3 | 1.55 | 0.67 |
| 9/10/2003 | 8:30 | 9/10/2003 08:30 | 26.37 | 7.00 | 1338 | 0.54 | 19.4 | 1.55 | 0.67 |
| 9/10/2003 | 8:45 | 9/10/2003 08:45 | 26.37 | 7.00 | 1334 | 0.53 | 19.0 | 1.52 | 0.66 |
| 9/10/2003 | 9:00 | 9/10/2003 09:00 | 26.39 | 7.01 | 1341 | 0.53 | 19.5 | 1.56 | 0.67 |
| 9/10/2003 | 9:15 | 9/10/2003 09:15 | 26.41 | 7.01 | 1340 | 0.53 | 19.2 | 1.54 | 0.67 |
| 9/10/2003 | 9:30 | 9/10/2003 09:30 | 26.44 | 7.01 | 1344 | 0.53 | 19.3 | 1.55 | 0.67 |
| 9/10/2003 | 9:45 | 9/10/2003 09:45 | 26.46 | 7.01 | 1348 | 0.53 | 21.0 | 1.68 | 0.67 |
| 9/10/2003 | 10:00 | 9/10/2003 10:00 | 26.53 | 7.02 | 1350 | 0.53 | 21.7 | 1.74 | 0.67 |
| 9/10/2003 | 10:15 | 9/10/2003 10:15 | 26.56 | 7.02 | 1339 | 0.53 | 23.0 | 1.84 | 0.67 |

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|---|---|---|---|---|---|---|---|---|---|
| 9/10/2003 | 10:30 | 9/10/2003 10:30 | 26.48 | 7.01 | 1310 | 0.53 | 21.3 | 1.71 | 0.65 |
| 9/10/2003 | 10:45 | 9/10/2003 10:45 | 26.54 | 7.01 | 1307 | 0.53 | 22.2 | 1.77 | 0.65 |
| 9/10/2003 | 11:00 | 9/10/2003 11:00 | 26.65 | 7.01 | 1306 | 0.53 | 23.6 | 1.88 | 0.65 |
| 9/10/2003 | 11:15 | 9/10/2003 11:15 | 26.79 | 7.01 | 1297 | 0.53 | 24.2 | 1.93 | 0.65 |
| 9/10/2003 | 11:30 | 9/10/2003 11:30 | 26.80 | 7.01 | 1271 | 0.53 | 22.4 | 1.78 | 0.63 |
| 9/10/2003 | 11:45 | 9/10/2003 11:45 | 26.86 | 7.00 | 1262 | 0.53 | 23.4 | 1.86 | 0.63 |
| 9/10/2003 | 12:00 | 9/10/2003 12:00 | 26.97 | 7.00 | 1256 | 0.53 | 25.8 | 2.05 | 0.62 |
| 9/10/2003 | 12:15 | 9/10/2003 12:15 | 26.97 | 6.99 | 1238 | 0.53 | 24.8 | 1.97 | 0.61 |
| 9/10/2003 | 12:30 | 9/10/2003 12:30 | 27.02 | 6.99 | 1233 | 0.53 | 25.1 | 1.99 | 0.61 |
| 9/10/2003 | 12:45 | 9/10/2003 12:45 | 27.01 | 6.98 | 1223 | 0.53 | 22.9 | 1.82 | 0.61 |
| 9/10/2003 | 13:00 | 9/10/2003 13:00 | 27.09 | 6.98 | 1212 | 0.53 | 24.1 | 1.91 | 0.60 |
| 9/10/2003 | 13:15 | 9/10/2003 13:15 | 27.07 | 6.98 | 1208 | 0.53 | 22.7 | 1.80 | 0.60 |
| 9/10/2003 | 13:30 | 9/10/2003 13:30 | 27.13 | 6.97 | 1192 | 0.53 | 24.6 | 1.95 | 0.59 |
| 9/10/2003 | 13:45 | 9/10/2003 13:45 | 27.18 | 6.97 | 1188 | 0.53 | 24.1 | 1.91 | 0.59 |
| 9/10/2003 | 14:00 | 9/10/2003 14:00 | 27.32 | 6.98 | 1187 | 0.53 | 26.5 | 2.09 | 0.59 |
| 9/10/2003 | 14:15 | 9/10/2003 14:15 | 27.28 | 6.97 | 1182 | 0.53 | 24.9 | 1.96 | 0.59 |
| 9/10/2003 | 14:30 | 9/10/2003 14:30 | 27.36 | 6.97 | 1174 | 0.53 | 25.9 | 2.04 | 0.58 |
| 9/10/2003 | 14:45 | 9/10/2003 14:45 | 27.47 | 6.97 | 1169 | 0.53 | 27.2 | 2.14 | 0.58 |
| 9/10/2003 | 15:00 | 9/10/2003 15:00 | 27.50 | 6.97 | 1168 | 0.53 | 26.9 | 2.11 | 0.58 |
| 9/10/2003 | 15:15 | 9/10/2003 15:15 | 27.52 | 6.97 | 1167 | 0.53 | 26.1 | 2.05 | 0.58 |
| 9/10/2003 | 15:30 | 9/10/2003 15:30 | 27.62 | 6.97 | 1166 | 0.53 | 26.3 | 2.07 | 0.58 |
| 9/10/2003 | 15:45 | 9/10/2003 15:45 | 27.63 | 6.97 | 1166 | 0.53 | 26.2 | 2.06 | 0.58 |
| 9/10/2003 | 16:00 | 9/10/2003 16:00 | 27.70 | 6.97 | 1166 | 0.54 | 25.9 | 2.03 | 0.58 |
| 9/10/2003 | 16:15 | 9/10/2003 16:15 | 27.79 | 6.97 | 1164 | 0.54 | 26.0 | 2.04 | 0.58 |
| 9/10/2003 | 16:30 | 9/10/2003 16:30 | 27.77 | 6.97 | 1165 | 0.54 | 24.4 | 1.91 | 0.58 |
| 9/10/2003 | 16:45 | 9/10/2003 16:45 | 27.83 | 6.96 | 1166 | 0.54 | 24.1 | 1.88 | 0.58 |
| 9/10/2003 | 17:00 | 9/10/2003 17:00 | 27.92 | 6.96 | 1163 | 0.54 | 23.8 | 1.86 | 0.58 |
| 9/10/2003 | 17:15 | 9/10/2003 17:15 | 27.95 | 6.96 | 1163 | 0.54 | 23.1 | 1.80 | 0.58 |
| 9/10/2003 | 17:30 | 9/10/2003 17:30 | 27.94 | 6.96 | 1163 | 0.54 | 22.5 | 1.75 | 0.58 |
| 9/10/2003 | 17:45 | 9/10/2003 17:45 | 27.89 | 6.95 | 1163 | 0.54 | 21.1 | 1.65 | 0.58 |
| 9/10/2003 | 18:00 | 9/10/2003 18:00 | 27.86 | 6.95 | 1162 | 0.54 | 19.2 | 1.50 | 0.57 |
| 9/10/2003 | 18:15 | 9/10/2003 18:15 | 27.87 | 6.95 | 1161 | 0.54 | 20.2 | 1.57 | 0.57 |
| 9/10/2003 | 18:30 | 9/10/2003 18:30 | 27.87 | 6.95 | 1159 | 0.54 | 20.4 | 1.60 | 0.57 |
| 9/10/2003 | 18:45 | 9/10/2003 18:45 | 27.86 | 6.96 | 1160 | 0.54 | 21.1 | 1.65 | 0.57 |
| 9/10/2003 | 19:00 | 9/10/2003 19:00 | 27.85 | 6.96 | 1161 | 0.54 | 21.3 | 1.66 | 0.57 |
| 9/10/2003 | 19:15 | 9/10/2003 19:15 | 27.82 | 6.96 | 1162 | 0.54 | 19.9 | 1.55 | 0.57 |
| 9/10/2003 | 19:30 | 9/10/2003 19:30 | 27.80 | 6.96 | 1164 | 0.54 | 19.9 | 1.55 | 0.58 |
| 9/10/2003 | 19:45 | 9/10/2003 19:45 | 27.79 | 6.95 | 1164 | 0.54 | 18.9 | 1.48 | 0.58 |
| 9/10/2003 | 20:00 | 9/10/2003 20:00 | 27.76 | 6.95 | 1163 | 0.54 | 18.5 | 1.45 | 0.58 |
| 9/10/2003 | 20:15 | 9/10/2003 20:15 | 27.74 | 6.95 | 1163 | 0.54 | 18.0 | 1.41 | 0.58 |
| 9/10/2003 | 20:30 | 9/10/2003 20:30 | 27.74 | 6.95 | 1164 | 0.54 | 17.5 | 1.37 | 0.58 |
| 9/10/2003 | 20:45 | 9/10/2003 20:45 | 27.73 | 6.95 | 1165 | 0.54 | 17.0 | 1.33 | 0.58 |
| 9/10/2003 | 21:00 | 9/10/2003 21:00 | 27.72 | 6.95 | 1165 | 0.54 | 17.1 | 1.34 | 0.58 |
| 9/10/2003 | 21:15 | 9/10/2003 21:15 | 27.70 | 6.96 | 1170 | 0.54 | 17.8 | 1.40 | 0.58 |
| 9/10/2003 | 21:30 | 9/10/2003 21:30 | 27.68 | 6.96 | 1171 | 0.54 | 18.5 | 1.45 | 0.58 |
| 9/10/2003 | 21:45 | 9/10/2003 21:45 | 27.68 | 6.97 | 1177 | 0.54 | 20.7 | 1.62 | 0.58 |
| 9/10/2003 | 22:00 | 9/10/2003 22:00 | 27.69 | 6.97 | 1177 | 0.54 | 19.1 | 1.50 | 0.58 |
| 9/10/2003 | 22:15 | 9/10/2003 22:15 | 27.70 | 6.97 | 1180 | 0.54 | 18.8 | 1.47 | 0.58 |
| 9/10/2003 | 22:30 | 9/10/2003 22:30 | 27.70 | 6.98 | 1182 | 0.55 | 18.9 | 1.48 | 0.59 |
| 9/10/2003 | 22:45 | 9/10/2003 22:45 | 27.72 | 6.97 | 1189 | 0.55 | 17.8 | 1.40 | 0.59 |
| 9/10/2003 | 23:00 | 9/10/2003 23:00 | 27.71 | 6.97 | 1188 | 0.55 | 16.1 | 1.26 | 0.59 |

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|---|---|---|---|---|---|---|---|---|---|
| 9/10/2003 | 23:15 | 9/10/2003 23:15 | 27.72 | 6.97 | 1189 | 0.55 | 16.2 | 1.27 | 0.59 |
| 9/10/2003 | 23:30 | 9/10/2003 23:30 | 27.74 | 6.98 | 1191 | 0.55 | 15.6 | 1.22 | 0.59 |
| 9/10/2003 | 23:45 | 9/10/2003 23:45 | 27.78 | 6.99 | 1195 | 0.55 | 18.0 | 1.41 | 0.59 |
| 9/11/2003 | 0:00 | 9/11/2003 00:00 | 27.79 | 6.99 | 1199 | 0.55 | 18.9 | 1.48 | 0.59 |
| 9/11/2003 | 0:15 | 9/11/2003 00:15 | 27.80 | 6.99 | 1207 | 0.55 | 18.3 | 1.43 | 0.60 |
| 9/11/2003 | 0:30 | 9/11/2003 00:30 | 27.78 | 6.99 | 1201 | 0.55 | 17.5 | 1.37 | 0.60 |
| 9/11/2003 | 0:45 | 9/11/2003 00:45 | 27.83 | 6.99 | 1210 | 0.55 | 19.6 | 1.53 | 0.60 |
| 9/11/2003 | 1:00 | 9/11/2003 01:00 | 27.86 | 7.00 | 1217 | 0.55 | 21.0 | 1.64 | 0.60 |
| 9/11/2003 | 1:15 | 9/11/2003 01:15 | 27.89 | 7.00 | 1228 | 0.54 | 20.9 | 1.63 | 0.61 |
| 9/11/2003 | 1:30 | 9/11/2003 01:30 | 27.89 | 7.00 | 1235 | 0.54 | 21.4 | 1.67 | 0.61 |
| 9/11/2003 | 1:45 | 9/11/2003 01:45 | 27.90 | 7.00 | 1246 | 0.54 | 21.8 | 1.70 | 0.62 |
| 9/11/2003 | 2:00 | 9/11/2003 02:00 | 27.91 | 7.00 | 1250 | 0.54 | 20.9 | 1.63 | 0.62 |
| 9/11/2003 | 2:15 | 9/11/2003 02:15 | 27.91 | 7.01 | 1263 | 0.54 | 22.4 | 1.75 | 0.63 |
| 9/11/2003 | 2:30 | 9/11/2003 02:30 | 27.92 | 7.02 | 1279 | 0.54 | 24.8 | 1.94 | 0.64 |
| 9/11/2003 | 2:45 | 9/11/2003 02:45 | 27.90 | 7.02 | 1281 | 0.54 | 24.4 | 1.90 | 0.64 |
| 9/11/2003 | 3:00 | 9/11/2003 03:00 | 27.90 | 7.02 | 1292 | 0.54 | 25.6 | 2.00 | 0.64 |
| 9/11/2003 | 3:15 | 9/11/2003 03:15 | 27.89 | 7.03 | 1302 | 0.54 | 26.6 | 2.08 | 0.65 |
| 9/11/2003 | 3:30 | 9/11/2003 03:30 | 27.88 | 7.03 | 1307 | 0.54 | 26.3 | 2.05 | 0.65 |
| 9/11/2003 | 3:45 | 9/11/2003 03:45 | 27.87 | 7.04 | 1318 | 0.54 | 27.5 | 2.15 | 0.66 |
| 9/11/2003 | 4:00 | 9/11/2003 04:00 | 27.85 | 7.04 | 1324 | 0.54 | 27.9 | 2.18 | 0.66 |
| 9/11/2003 | 4:15 | 9/11/2003 04:15 | 27.82 | 7.04 | 1328 | 0.54 | 27.5 | 2.15 | 0.66 |
| 9/11/2003 | 4:30 | 9/11/2003 04:30 | 27.80 | 7.04 | 1328 | 0.54 | 27.3 | 2.14 | 0.66 |
| 9/11/2003 | 4:45 | 9/11/2003 04:45 | 27.77 | 7.04 | 1329 | 0.54 | 26.2 | 2.05 | 0.66 |
| 9/11/2003 | 5:00 | 9/11/2003 05:00 | 27.75 | 7.04 | 1335 | 0.54 | 26.9 | 2.10 | 0.66 |
| 9/11/2003 | 5:15 | 9/11/2003 05:15 | 27.71 | 7.04 | 1335 | 0.54 | 25.7 | 2.01 | 0.66 |
| 9/11/2003 | 5:30 | 9/11/2003 05:30 | 27.67 | 7.04 | 1335 | 0.54 | 25.9 | 2.03 | 0.66 |
| 9/11/2003 | 5:45 | 9/11/2003 05:45 | 27.64 | 7.04 | 1338 | 0.53 | 26.1 | 2.05 | 0.67 |
| 9/11/2003 | 6:00 | 9/11/2003 06:00 | 27.62 | 7.04 | 1335 | 0.53 | 25.0 | 1.96 | 0.66 |
| 9/11/2003 | 6:15 | 9/11/2003 06:15 | 27.58 | 7.05 | 1342 | 0.54 | 25.7 | 2.01 | 0.67 |
| 9/11/2003 | 6:30 | 9/11/2003 06:30 | 27.38 | 7.05 | 1337 | 0.55 | 24.2 | 1.91 | 0.67 |
| 9/11/2003 | 6:45 | 9/11/2003 06:45 | 27.43 | 7.05 | 1350 | 0.54 | 24.5 | 1.93 | 0.67 |
| 9/11/2003 | 7:00 | 9/11/2003 07:00 | 27.43 | 7.05 | 1349 | 0.54 | 24.5 | 1.93 | 0.67 |
| 9/11/2003 | 7:15 | 9/11/2003 07:15 | 27.43 | 7.04 | 1348 | 0.54 | 22.3 | 1.76 | 0.67 |
| 9/11/2003 | 7:30 | 9/11/2003 07:30 | 27.42 | 7.04 | 1356 | 0.54 | 22.6 | 1.78 | 0.68 |
| 9/11/2003 | 7:45 | 9/11/2003 07:45 | 27.42 | 7.04 | 1352 | 0.53 | 22.7 | 1.76 | 0.67 |
| 9/11/2003 | 8:00 | 9/11/2003 08:00 | 27.38 | 7.04 | 1336 | 0.52 | 22.3 | 1.76 | 0.66 |
| 9/11/2003 | 8:15 | 9/11/2003 08:15 | 27.39 | 7.03 | 1330 | 0.53 | 20.7 | 1.63 | 0.66 |
| 9/11/2003 | 8:30 | 9/11/2003 08:30 | 27.39 | 7.03 | 1324 | 0.53 | 20.5 | 1.62 | 0.66 |
| 9/11/2003 | 8:45 | 9/11/2003 08:45 | 27.42 | 7.02 | 1318 | 0.53 | 17.6 | 1.38 | 0.66 |
| 9/11/2003 | 9:00 | 9/11/2003 09:00 | 27.42 | 7.02 | 1304 | 0.53 | 16.2 | 1.27 | 0.65 |
| 9/11/2003 | 9:15 | 9/11/2003 09:15 | 27.44 | 7.00 | 1291 | 0.53 | 15.4 | 1.21 | 0.64 |
| 9/11/2003 | 9:30 | 9/11/2003 09:30 | 27.43 | 7.00 | 1282 | 0.53 | 14.5 | 1.14 | 0.64 |
| 9/11/2003 | 9:45 | 9/11/2003 09:45 | 27.45 | 7.00 | 1264 | 0.53 | 14.8 | 1.17 | 0.63 |
| 9/11/2003 | 10:00 | 9/11/2003 10:00 | 27.45 | 7.00 | 1265 | 0.53 | 15.0 | 1.18 | 0.63 |
| 9/11/2003 | 10:15 | 9/11/2003 10:15 | 27.47 | 7.00 | 1280 | 0.53 | 14.5 | 1.14 | 0.64 |
| 9/11/2003 | 10:30 | 9/11/2003 10:30 | 27.45 | 7.00 | 1261 | 0.53 | 13.4 | 1.06 | 0.63 |
| 9/11/2003 | 10:45 | 9/11/2003 10:45 | 27.46 | 6.99 | 1248 | 0.53 | 13.3 | 1.04 | 0.62 |
| 9/11/2003 | 11:00 | 9/11/2003 11:00 | 27.48 | 6.99 | 1240 | 0.53 | 14.8 | 1.17 | 0.62 |
| 9/11/2003 | 11:15 | 9/11/2003 11:15 | 27.53 | 7.00 | 1240 | 0.53 | 16.2 | 1.28 | 0.62 |
| 9/11/2003 | 11:30 | 9/11/2003 11:30 | 27.51 | 6.99 | 1227 | 0.53 | 14.7 | 1.15 | 0.61 |
| 9/11/2003 | 11:45 | 9/11/2003 11:45 | 27.50 | 6.99 | 1229 | 0.53 | 13.5 | 1.06 | 0.61 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9/11/2003 | 12:00 | 9/11/2003 12:00 | 27.46 | 6.99 | 1210 | 0.53 | 13.7 | 1.08 | 0.60 |
| 9/11/2003 | 12:15 | 9/11/2003 12:15 | 27.46 | 7.01 | 1207 | 0.54 | 19.3 | 1.52 | 0.60 |
| 9/11/2003 | 12:30 | 9/11/2003 12:30 | 27.41 | 7.00 | 1194 | 0.54 | 18.3 | 1.44 | 0.59 |
| 9/11/2003 | 12:45 | 9/11/2003 12:45 | 27.43 | 6.99 | 1194 | 0.54 | 17.0 | 1.34 | 0.59 |
| **Average** | | | **27.14** | **6.96** | **1202** | **0.54** | **18.1** | **1.43** | **0.60** |
| **Minimum** | | | **26.37** | **6.81** | **1076** | **0.20** | **7.4** | **0.59** | **0.53** |
| **Maximum** | | | **27.95** | **7.05** | **1388** | **0.55** | **27.9** | **2.18** | **0.69** |

# Appendix F5 – BOD Calculations

## Bayou Chauvin 120507
## Lab BOD Calculations Summary

| Site ID | CBOD (mg/l) | k rate (1/day) | NBOD (mg/l) | k rate (1/day) |
|---|---|---|---|---|
| BC01 | 8.9473 | 0.0944 | 2.703917 | 0.12875 |
| BC02 | 9.8919 | 0.0760 | 2.659804 | 0.0875 |
| BC03 | 11.1504 | 0.0636 | 2.180218 | 0.108125 |
| BC05 | 16.7325 | 0.0762 | 3.531118 | 0.1127083 |
| BC07 | 15.5489 | 0.0671 | 3.571846 | 0.0875 |
| BC09 | 14.7551 | 0.0652 | 3.48526 | 0.0880729 |
| C01 | 10.6206 | 0.0566 | 5.834261 | 0.21125 |
| C02 | 13.3465 | 0.0783 | 4.869589 | 0.29375 |
| SL01 | 12.2572 | 0.0669 | 2.290712 | 0.21125 |
| SL02 | 12.264425 | 0.0538889 | 1.951348 | 0.190625 |
| DC01 | 19.197588 | 0.0745139 | 4.473945 | 0.0875 |
| LB01 | 15.847754 | 0.0613368 | 3.647537 | 0.0897917 |
| BB02 | 17.929445 | 0.0783333 | 4.658385 | 0.0588542 |
| NC02 | 15.504853 | 0.0745139 | 3.510754 | 0.094375 |

## Bayou Chauvin 120507
## BOD Decay Rates by Reach

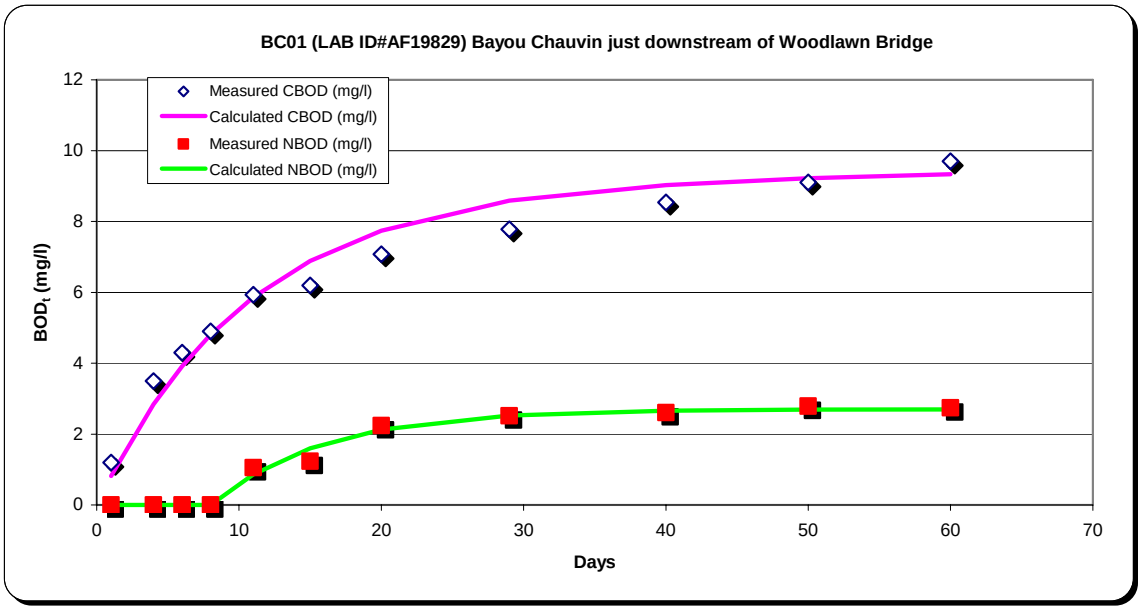
| Reach | CBOD decay | Source | NBOD decay | Source |
|---|---|---|---|---|
| 1 | 0.0780 | Average(BC01, BC02, BC03) | 0.1081 | Average(BC01, BC02, BC03) |
| 2 | 0.0699 | Average(BC03, BC05) | 0.1104 | Average(BC03, BC05) |
| 3 | 0.0762 | BC05 | 0.1127 | BC05 |
| 4 | 0.0671 | BC07 | 0.0875 | BC07 |
| 5 | 0.0661 | Average(BC07, BC09) | 0.0878 | Average(BC07, BC09) |

## Bayou Chauvin 120507
## BOD Incremental Values by Reach

| Reach | CBOD | Source | NBOD | Source |
|---|---|---|---|---|
| 1 | 9.9965 | Average(BC01, BC02, BC03) | 2.51465 | Average(BC01, BC02, BC03) |
| 2 | 13.9415 | Average(BC03, BC05) | 2.85567 | Average(BC03, BC05) |
| 3 | 16.7325 | BC05 | 3.53112 | BC05 |
| 4 | 15.5489 | BC07 | 3.57185 | BC07 |
| 5 | 15.1520 | Average(BC07, BC09) | 3.52855 | Average(BC07, BC09) |

Select Site to Graph:

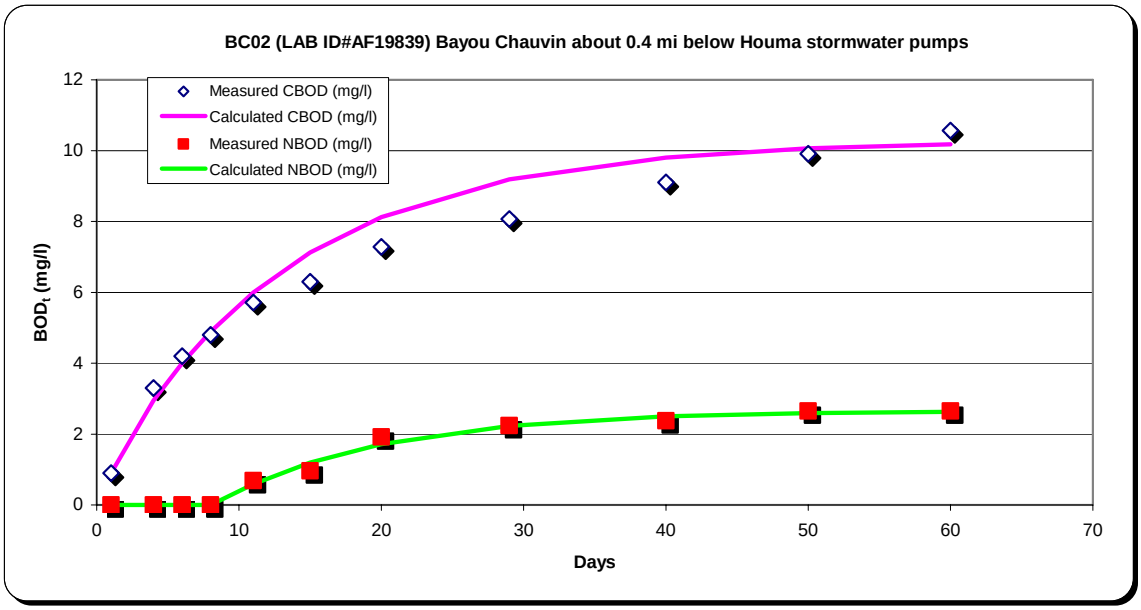
| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 2.7039165 | 8.9472828 |
| k rate (1/day) | 0.12875 | 0.094375 |
| Lag time (days) | 8.020834 | 0 |




Note 1 - Days from the BOD test start date.
Note 2 - Measured total BOD at time in "Days" column.
Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Select Site to Graph:

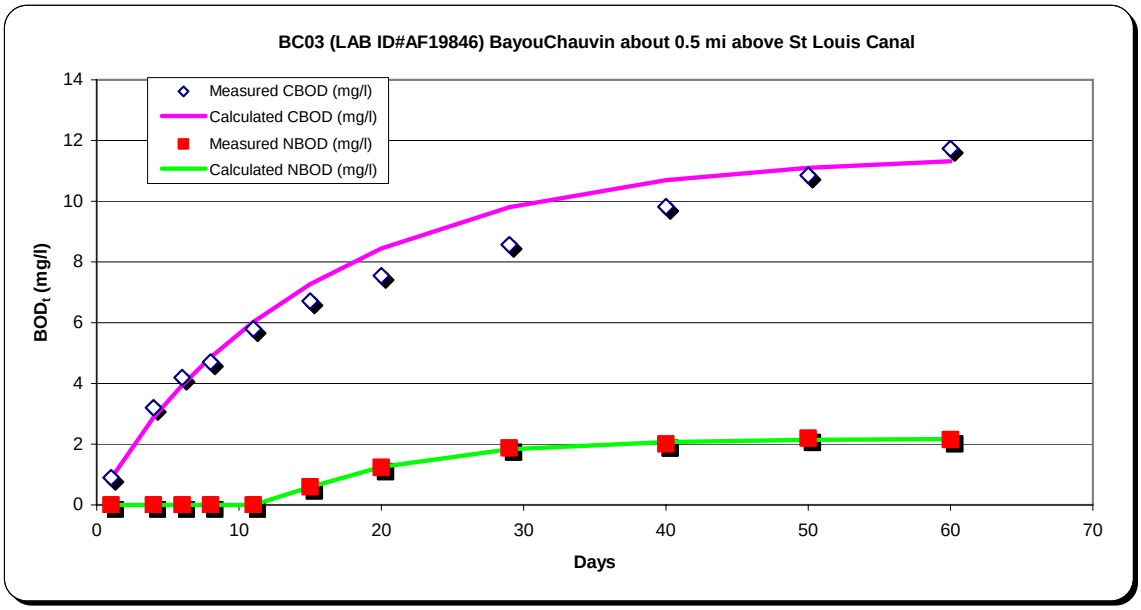
| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 2.6598036 | 9.8918619 |
| k rate (1/day) | 0.0875 | 0.0760417 |
| Lag time (days) | 8.166666 | 0 |




Note 1 - Days from the BOD test start date.
Note 2 - Measured total BOD at time in "Days" column.
Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Select Site to Graph:

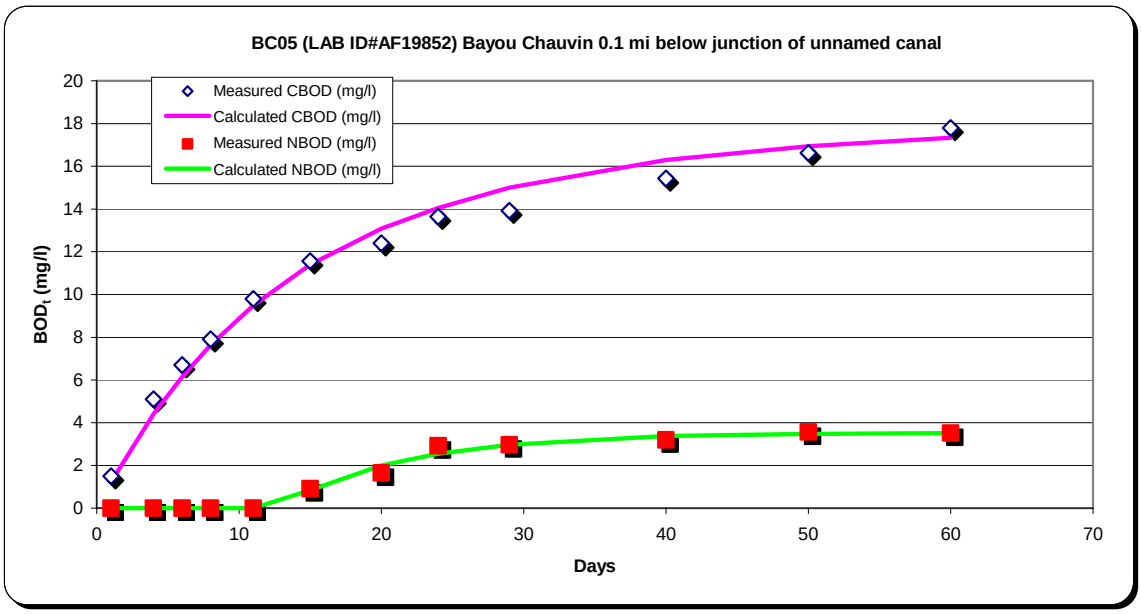
| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 2.180218 | 11.150444 |
| k rate (1/day) | 0.108125 | 0.0636285 |
| Lag time (days) | 12.104166 | 0 |




Note 1 - Days from the BOD test start date.
Note 2 - Measured total BOD at time in "Days" column.
Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Select Site to Graph:

| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 3.5311184 | 16.732473 |
| k rate (1/day) | 0.1127083 | 0.0762326 |
| Lag time (days) | 12.590277 | 0 |




Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.

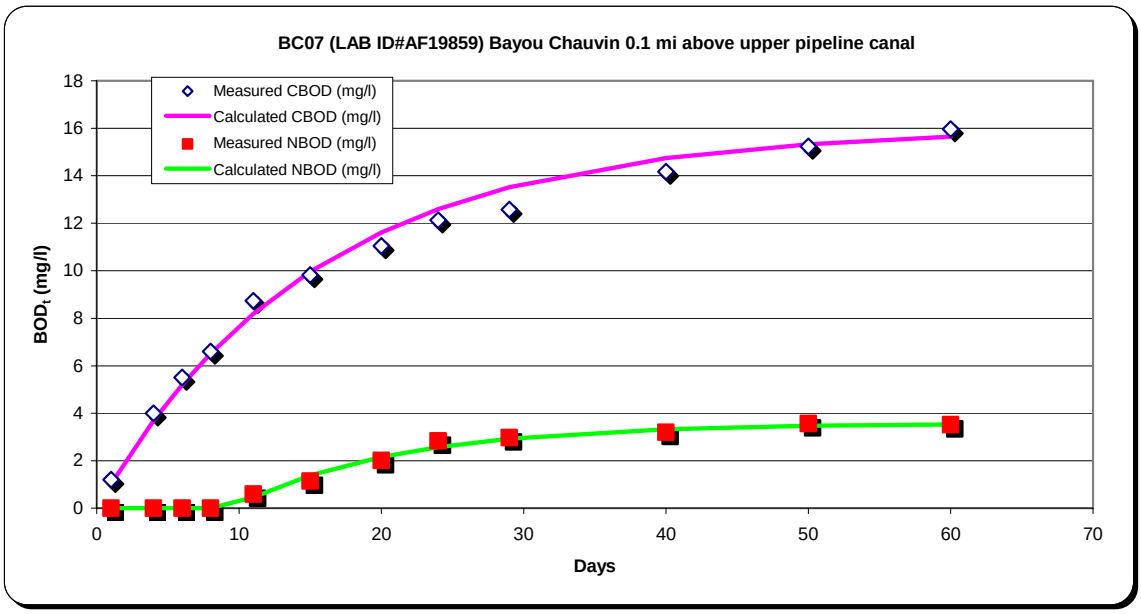
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Select Site to Graph:

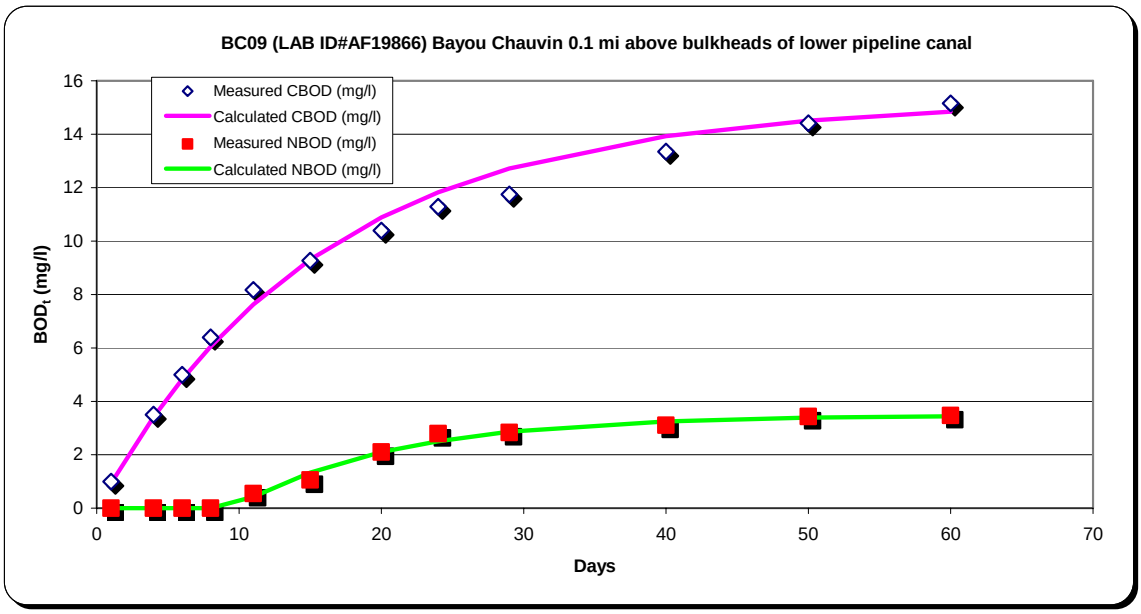
| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 3.5718462 | 15.548861 |
| k rate (1/day) | 0.0875 | 0.067066 |
| Lag time (days) | 9.4305553 | 0 |




Note 1 - Days from the BOD test start date.
Note 2 - Measured total BOD at time in "Days" column.
Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Select Site to Graph:

| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 3.48526 | 14.755113 |
| k rate (1/day) | 0.0880729 | 0.0651563 |
| Lag time (days) | 9.5277777 | 0 |




Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.

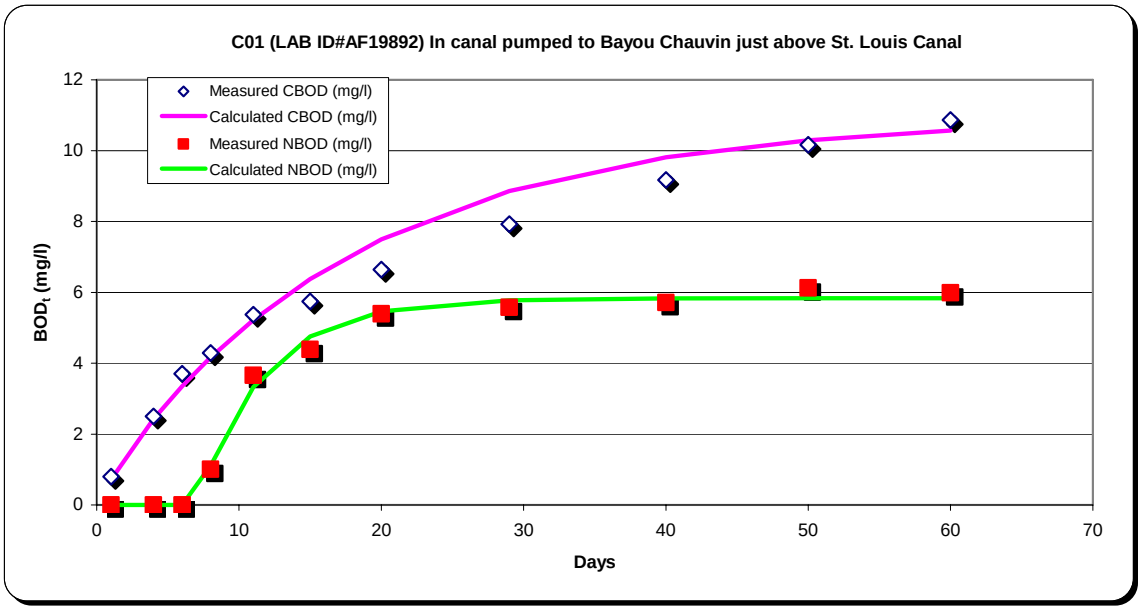
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Select Site to Graph:

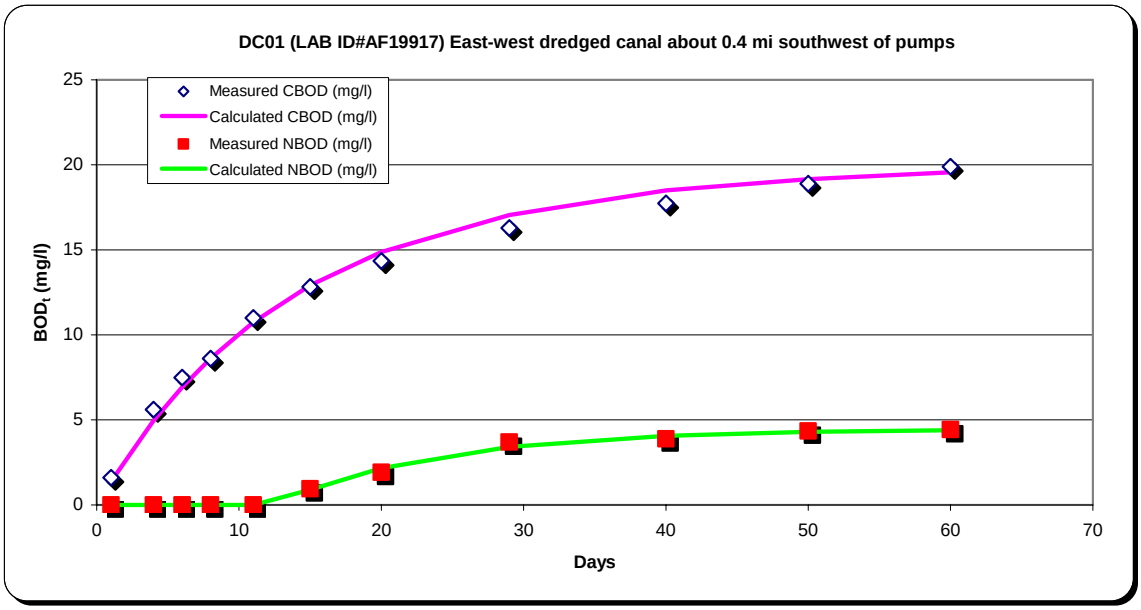
| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 5.8342605 | 10.620583 |
| k rate (1/day) | 0.21125 | 0.0565625 |
| Lag time (days) | 7 | 0 |




Note 1 - Days from the BOD test start date.
Note 2 - Measured total BOD at time in "Days" column.
Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Select Site to Graph:

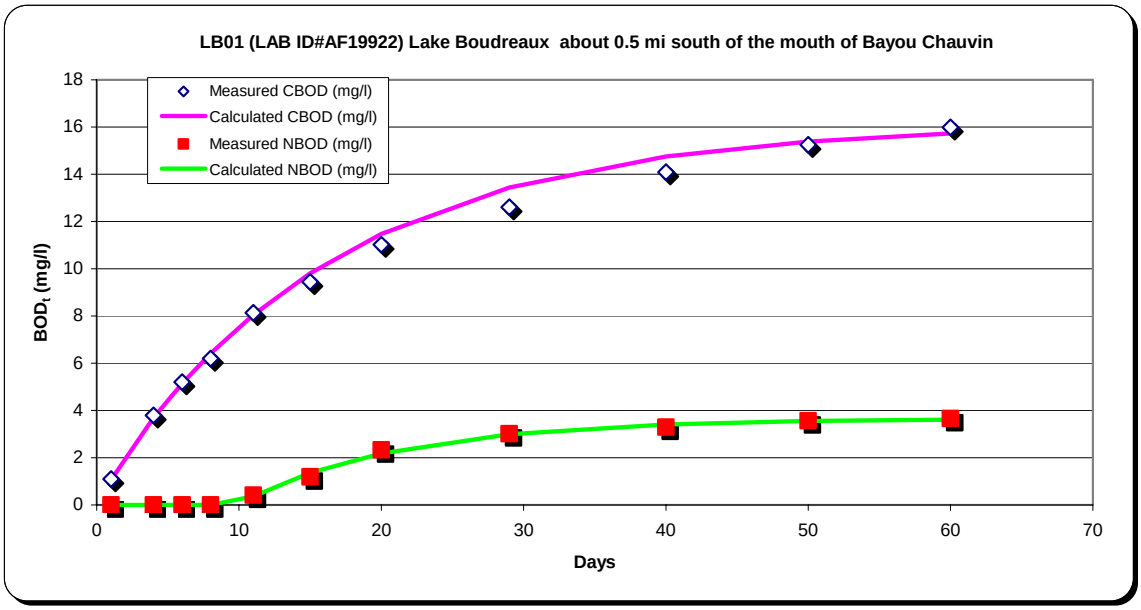
| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 4.4739451 | 19.197588 |
| k rate (1/day) | 0.0875 | 0.0745139 |
| Lag time (days) | 12.493055 | 0 |




Note 1 - Days from the BOD test start date.
Note 2 - Measured total BOD at time in "Days" column.
Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Select Site to Graph:

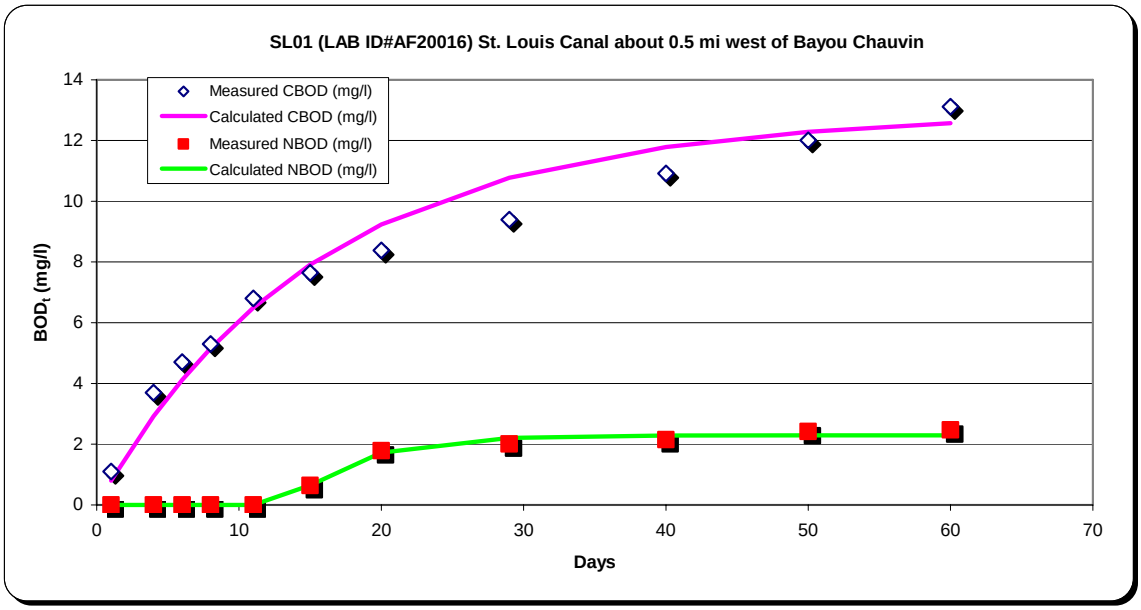
| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 3.647537 | 15.847754 |
| k rate (1/day) | 0.0897917 | 0.0613368 |
| Lag time (days) | 9.8194447 | 0 |




Note 1 - Days from the BOD test start date.
Note 2 - Measured total BOD at time in "Days" column.
Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Select Site to Graph:

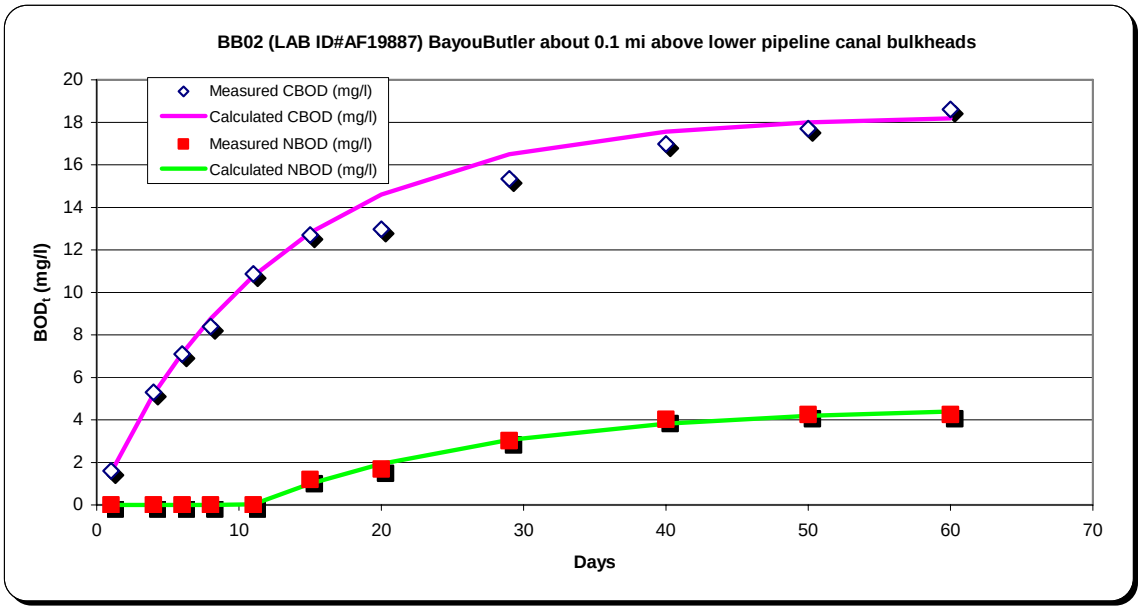
| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 2.2907124 | 12.257196 |
| k rate (1/day) | 0.21125 | 0.066875 |
| Lag time (days) | 13.416667 | 0 |




Note 1 - Days from the BOD test start date.
Note 2 - Measured total BOD at time in "Days" column.
Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Select Site to Graph:

| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 4.6583853 | 17.929445 |
| k rate (1/day) | 0.0588542 | 0.0783333 |
| Lag time (days) | 10.888888 | 0 |




Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.

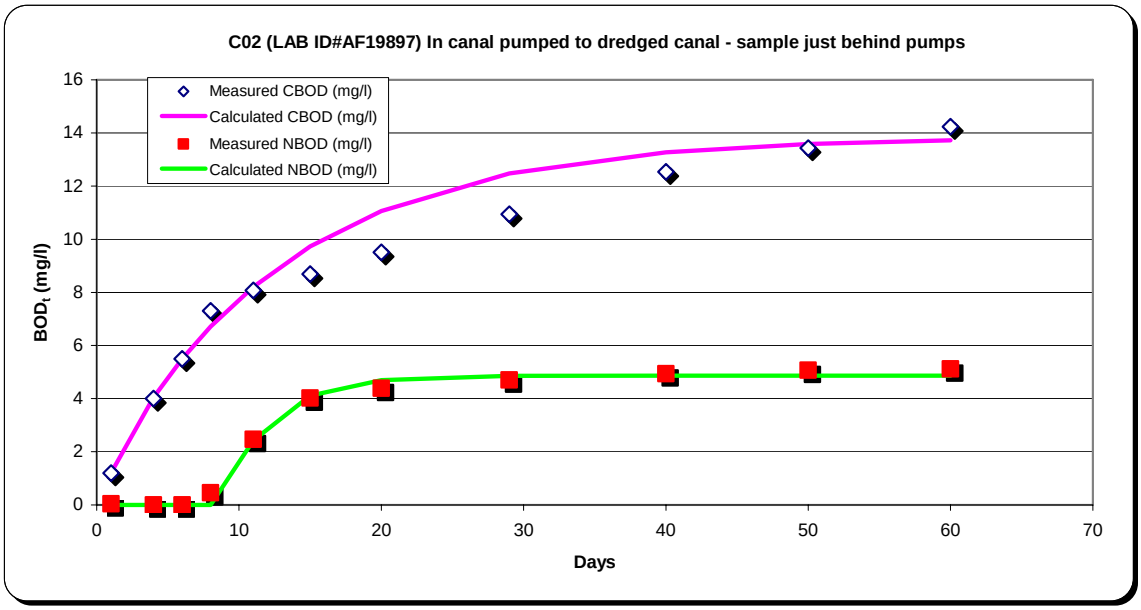
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Select Site to Graph:

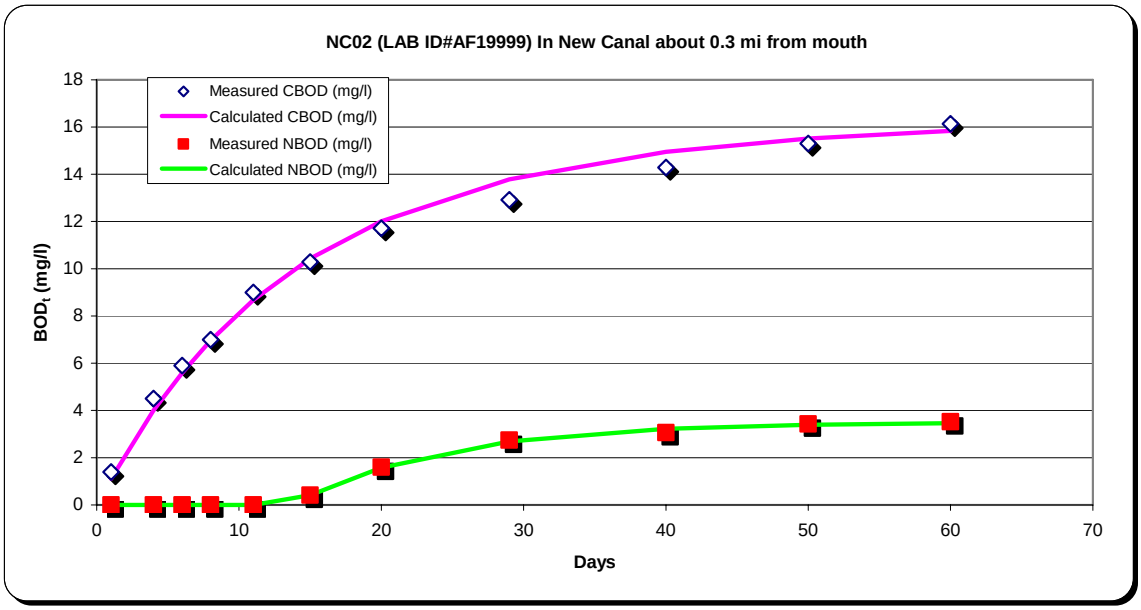
| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 4.8695889 | 13.346501 |
| k rate (1/day) | 0.29375 | 0.0783333 |
| Lag time (days) | 8.6527777 | 0 |




Note 1 - Days from the BOD test start date.
Note 2 - Measured total BOD at time in "Days" column.
Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Select Site to Graph:

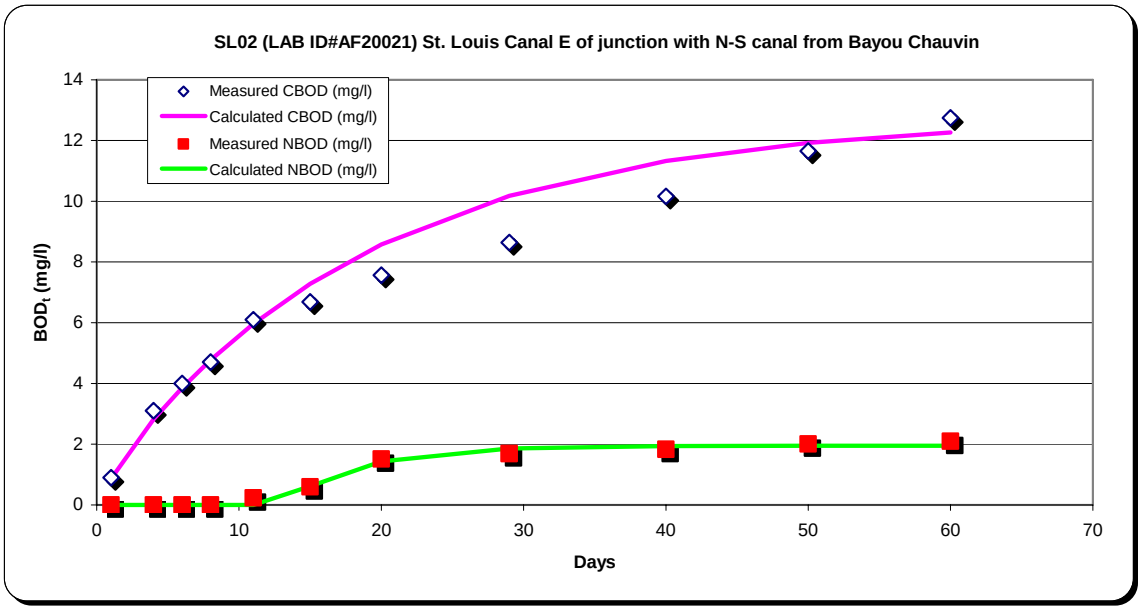
| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 3.5107543 | 15.504853 |
| k rate (1/day) | 0.094375 | 0.0745139 |
| Lag time (days) | 13.659721 | 0 |




Note 1 - Days from the BOD test start date.
Note 2 - Measured total BOD at time in "Days" column.
Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Select Site to Graph:

| | NBOD | CBOD |
|---|---|---|
| UBOD (mg/l) | 1.9513477 | 12.264425 |
| k rate (1/day) | 0.190625 | 0.0538889 |
| Lag time (days) | 13.027778 | 0 |




Note 1 - Days from the BOD test start date.
Note 2 - Measured total BOD at time in "Days" column.
Note 3 - Measured ($NO_2$ + $NO_3$ as nitrogen) at time in "Days" column.
Note 4 - Calculated by multipling the measured ($NO_2$ +$NO_3$ as nitrogen) minus the day zero ($NO_2$ +$NO_3$ as nitrogen) by 4.57.
Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

# Appendix F6– Dispersion and Dye Data

## Bayou Chauvin Subsegment 120507 Dispersion Summary

| Run Number | Dispersion Coefficient (Kd) | Elapsed Time (hrs) |
|---|---|---|
| Dye Run 1 | Did not converge | 5.52 |
| Dye Run 2 | 0.6350 | 11.46 |
| Dye Run 3 | 0.2660 | 27.39 |

For the purposes of the TMDL the Dispersion coefficient for Dye Run 3 will be used.

This is because the data was gathered over the longest time period allowing for a better dispersion of the dye into the water body.

# Bayou Chauvin Cross Section Summary

| SITE | WIDTH (feet) | WIDTH (meters) | DEPTH (feet) | DEPTH (meters) |
|---|---|---|---|---|
| Bayou Chauvin Dump | 83.000 | 25.298 | 3.720 | 1.134 |
| Run 1 XS Upper | 78.000 | 23.774 | 4.140 | 1.262 |
| Run 1 XS Mid | 84.000 | 25.603 | 3.900 | 1.189 |
| Run 1 XS Lower | 83.000 | 25.298 | 3.800 | 1.158 |
| Run 2 XS Upper | 78.000 | 23.774 | 4.150 | 1.265 |
| Run 2 XS Mid | 79.000 | 24.079 | 3.610 | 1.100 |
| Run 2 XS Lower | 83.000 | 25.298 | 3.850 | 1.173 |
| Run 3 XS Upper | 80.000 | 24.384 | 3.960 | 1.207 |
| Run 3 XS Mid | 85.000 | 25.908 | 4.060 | 1.237 |
| Run 3 XS Lower | 80.000 | 24.384 | 4.040 | 1.231 |
| | | | | |
| Average XS run 1 | 82.000 | 24.994 | 3.890 | 1.186 |
| Average XS run 2 | 81.143 | 24.732 | 3.881 | 1.183 |
| Average XS run 3 | 81.300 | 24.780 | 3.923 | 1.196 |

## Bayou Chauvin Dye Arc Table Calculations Run 1 of 3

| Y | X | RUN | Value | Adjust Dye Value | RKM | Kilometers Distance from Dye Dump | Meters Distance from Dye Dump | TEMP | DATE | TIME | Date + Time | Run - Dump | PROJECTION | ZONE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3270019 | 727216 | Dump | | | 12.93 | | | | 9/10/2003 | 7:00:00 AM | 9/10/2003 7:00 | | NAD 83 CONUS | Zone 15 North |
| 3270186 | 727204 | bg | -0.8 | 0 | | 13.09 | 13094.9346923 | 28.1 | 9/10/2003 | 11:58:55 AM | 9/10/03 11:58 | 0.207581 | NAD 83 CONUS | Zone 15 North |
| 3270139 | 727205 | 1 | 7.35 | 8.15 | | 13.05 | 13047.4175338 | 27.7 | 9/10/2003 | 12:16:04 PM | 9/10/03 12:16 | 0.219491 | NAD 83 CONUS | Zone 15 North |
| 3270127 | 727206 | 2 | 34.5 | 35.3 | | 13.03 | 13034.9581621 | 27.7 | 9/10/2003 | 12:18:27 PM | 9/10/03 12:18 | 0.221146 | NAD 83 CONUS | Zone 15 North |
| 3270108 | 727206 | 3 | 150 | 150.8 | | 13.02 | 13016.6661212 | 27.8 | 9/10/2003 | 12:27:03 PM | 9/10/03 12:27 | 0.227118 | NAD 83 CONUS | Zone 15 North |
| 3270089 | 727209 | 4 | 182 | 182.8 | | 13.00 | 12996.9506999 | 27.7 | 9/10/2003 | 12:29:13 PM | 9/10/03 12:29 | 0.228623 | NAD 83 CONUS | Zone 15 North |
| 3270071 | 727215 | 5 | 210 | 210.8 | | 12.98 | 12978.4166575 | 27.8 | 9/10/2003 | 12:31:01 PM | 9/10/03 12:31 | 0.229873 | NAD 83 CONUS | Zone 15 North |
| 3270050 | 727213 | 6 | 249 | 249.8 | | 12.96 | 12957.5087948 | 27.8 | 9/10/2003 | 12:33:06 PM | 9/10/03 12:33 | 0.231319 | NAD 83 CONUS | Zone 15 North |
| 3270036 | 727215 | 7 | 181 | 181.8 | | 12.94 | 12943.4379749 | 27.8 | 9/10/2003 | 12:34:46 PM | 9/10/03 12:34 | 0.232477 | NAD 83 CONUS | Zone 15 North |
| 3270019 | 727217 | 7 | 142 | 142.8 | | 12.93 | 12926.3351562 | 27.8 | 9/10/2003 | 12:36:42 PM | 9/10/03 12:36 | 0.233819 | NAD 83 CONUS | Zone 15 North |
| 3270011 | 727217 | 8 | 116 | 116.8 | | 12.92 | 12918.3506167 | 27.8 | 9/10/2003 | 12:37:38 PM | 9/10/03 12:37 | 0.234468 | NAD 83 CONUS | Zone 15 North |
| 3270002 | 727218 | 9 | 39.5 | 40.3 | | 12.91 | 12909.3058697 | 27.8 | 9/10/2003 | 12:38:36 PM | 9/10/03 12:38 | 0.235139 | NAD 83 CONUS | Zone 15 North |
| 3269988 | 727219 | 10 | 18.8 | 19.6 | | 12.90 | 12895.2707854 | 27.7 | 9/10/2003 | 12:39:37 PM | 9/10/03 12:39 | 0.235845 | NAD 83 CONUS | Zone 15 North |
| 3269974 | 727216 | 11 | 5.23 | 6.03 | | 12.88 | 12881.2489639 | 27.7 | 9/10/2003 | 12:40:42 PM | 9/10/03 12:40 | 0.236597 | NAD 83 CONUS | Zone 15 North |
| 3269949 | 727217 | 12 | 1.7 | 2.5 | | 12.86 | 12856.3009887 | 27.8 | 9/10/2003 | 12:42:22 PM | 9/10/03 12:42 | 0.237755 | NAD 83 CONUS | Zone 15 North |
| 3269921 | 727215 | 13 | 0.017 | 0.817 | | 12.83 | 12828.2104311 | 27.7 | 9/10/2003 | 12:44:17 PM | 9/10/03 12:44 | 0.239086 | NAD 83 CONUS | Zone 15 North |

| | |
|---|---|
| Average Time | 0.230022 |
| Average Time in Hours | 5.520537 |
| Average Time in Seconds | **19873.933334** |

# Bayou Chauvin Dye Arc Table Calculations Run 2 of 3

| Y | X | RUN | Value | Adjust Dye Value | RKM | Kilometers Distance from Dye Dump | Meters Distance from Dye Dump | TEMP | DATE | TIME | Date + Time | Run - Dump | PROJECTION | ZONE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3270227 | 727201 | bg | -0.5 | 0 | | 13.14 | 13135.3815756 | 27.9 | 9/10/2003 | 6:13:58 PM | 9/10/03 18:13 | 0.468032 | NAD 83 CONUS | Zone 15 North |
| 3270221 | 727201 | 1 | 4.87 | 5.37 | | 13.13 | 13129.4217313 | 27.8 | 9/10/2003 | 6:15:10 PM | 9/10/03 18:15 | 0.468866 | NAD 83 CONUS | Zone 15 North |
| 3270206 | 727199 | 2 | 10.6 | 11.1 | | 13.11 | 13114.3096745 | 27.8 | 9/10/2003 | 6:16:19 PM | 9/10/03 18:16 | 0.469664 | NAD 83 CONUS | Zone 15 North |
| 3270185 | 727201 | 3 | 16.2 | 16.7 | | 13.09 | 13093.6946074 | 27.8 | 9/10/2003 | 6:18:18 PM | 9/10/03 18:18 | 0.471042 | NAD 83 CONUS | Zone 15 North |
| 3270159 | 727200 | 4 | 31.4 | 31.9 | | 13.07 | 13067.7677291 | 27.9 | 9/10/2003 | 6:20:34 PM | 9/10/03 18:20 | 0.472616 | NAD 83 CONUS | Zone 15 North |
| 3270135 | 727201 | 5 | 61.5 | 62 | | 13.04 | 13043.7688239 | 27.8 | 9/10/2003 | 6:22:21 PM | 9/10/03 18:22 | 0.473854 | NAD 83 CONUS | Zone 15 North |
| 3270102 | 727205 | 6 | 69.8 | 70.3 | | 13.01 | 13010.3600231 | 27.9 | 9/10/2003 | 6:24:26 PM | 9/10/03 18:24 | 0.475301 | NAD 83 CONUS | Zone 15 North |
| 3270072 | 727210 | 7 | 72.5 | 73 | | 12.98 | 12979.5883749 | 27.9 | 9/10/2003 | 6:26:14 PM | 9/10/03 18:26 | 0.476551 | NAD 83 CONUS | Zone 15 North |
| 3270057 | 727210 | 8 | 80.2 | 80.7 | | 12.96 | 12964.6308286 | 27.9 | 9/10/2003 | 6:27:34 PM | 9/10/03 18:27 | 0.477477 | NAD 83 CONUS | Zone 15 North |
| 3270039 | 727212 | 9 | 127 | 127.5 | | 12.95 | 12946.5212589 | 27.8 | 9/10/2003 | 6:28:57 PM | 9/10/03 18:28 | 0.478438 | NAD 83 CONUS | Zone 15 North |
| 3270004 | 727220 | 10 | 147 | 147.5 | | 12.91 | 12911.1777241 | 27.9 | 9/10/2003 | 6:31:02 PM | 9/10/03 18:31 | 0.479884 | NAD 83 CONUS | Zone 15 North |
| 3269967 | 727217 | 11 | 168 | 168.5 | | 12.87 | 12874.2893824 | 27.9 | 9/10/2003 | 6:32:59 PM | 9/10/03 18:32 | 0.481238 | NAD 83 CONUS | Zone 15 North |
| 3269951 | 727218 | 12 | 126 | 126.5 | | 12.86 | 12858.3356041 | 27.9 | 9/10/2003 | 6:34:25 PM | 9/10/03 18:34 | 0.482234 | NAD 83 CONUS | Zone 15 North |
| 3269936 | 727215 | 13 | 88.6 | 89.1 | | 12.84 | 12843.2375610 | 27.9 | 9/10/2003 | 6:35:31 PM | 9/10/03 18:35 | 0.482998 | NAD 83 CONUS | Zone 15 North |
| 3269901 | 727216 | 14 | 61.7 | 62.2 | | 12.81 | 12808.2741655 | 27.9 | 9/10/2003 | 6:37:37 PM | 9/10/03 18:37 | 0.484456 | NAD 83 CONUS | Zone 15 North |
| 3269878 | 727217 | 15 | 38.3 | 38.8 | | 12.79 | 12785.3014891 | 27.9 | 9/10/2003 | 6:38:57 PM | 9/10/03 18:38 | 0.485382 | NAD 83 CONUS | Zone 15 North |
| 3269844 | 727216 | 16 | 22.5 | 23 | | 12.75 | 12751.2901748 | 27.9 | 9/10/2003 | 6:40:57 PM | 9/10/03 18:40 | 0.486771 | NAD 83 CONUS | Zone 15 North |
| 3269807 | 727212 | 17 | 15.9 | 16.4 | | 12.71 | 12714.2080179 | 27.9 | 9/10/2003 | 6:43:04 PM | 9/10/03 18:43 | 0.488241 | NAD 83 CONUS | Zone 15 North |
| 3269769 | 727215 | 18 | 11.5 | 12 | | 12.68 | 12676.0989836 | 27.9 | 9/10/2003 | 6:45:13 PM | 9/10/03 18:45 | 0.489734 | NAD 83 CONUS | Zone 15 North |
| 3269731 | 727215 | 19 | 7.5 | 8 | | 12.64 | 12638.1650190 | 27.9 | 9/10/2003 | 6:47:11 PM | 9/10/03 18:47 | 0.491100 | NAD 83 CONUS | Zone 15 North |
| 3269642 | 727208 | 20 | 4.1 | 4.6 | | 12.55 | 12548.7101965 | 28.4 | 9/10/2003 | 6:49:35 PM | 9/10/03 18:49 | 0.492766 | NAD 83 CONUS | Zone 15 North |
| 3269584 | 727198 | 21 | 1.79 | 2.29 | | 12.49 | 12489.5905797 | 28.4 | 9/10/2003 | 6:51:35 PM | 9/10/03 18:51 | 0.494155 | NAD 83 CONUS | Zone 15 North |
| 3269568 | 727194 | 22 | 0.113 | 0.613 | | 12.47 | 12472.9171608 | 28.4 | 9/10/2003 | 6:52:38 PM | 9/10/03 18:52 | 0.494884 | NAD 83 CONUS | Zone 15 North |

| | |
|---|---|
| Average Time | 0.477341 |
| Average Time in Hours | 11.456193 |
| Average Time in Seconds | **41242.294118** |

# Bayou Chauvin Dye Arc Table Calculations Page 3 of 3

| Y | X | RUN | Value | Adjust Dye Value | RKM | Kilometers Distance from Dye Dump | Meters Distance from Dye Dump | TEMP | DATE | TIME | Date + Time | Run - Dump | PROJECTION | ZONE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3270338 | 727217 | bgdyer3 | -0.4 | 0 | | 13.25 | 13247.4620226 | 26.7 | 9/11/2003 | 9:37:38 AM | 9/11/03 9:37 | 1.109468 | NAD 83 CONUS | Zone 15 North |
| 3270260 | 727209 | 1 | 0.126 | 0.526 | | 13.17 | 13169.0736561 | 26.8 | 9/11/2003 | 9:45:09 AM | 9/11/03 9:45 | 1.114688 | NAD 83 CONUS | Zone 15 North |
| 3270221 | 727203 | 2 | 0.849 | 1.249 | | 13.13 | 13129.6527330 | 26.9 | 9/11/2003 | 9:50:32 AM | 9/11/03 9:50 | 1.118426 | NAD 83 CONUS | Zone 15 North |
| 3270177 | 727203 | 3 | 2.43 | 2.83 | | 13.09 | 13085.8832314 | 27.1 | 9/11/2003 | 9:54:23 AM | 9/11/03 9:54 | 1.121100 | NAD 83 CONUS | Zone 15 North |
| 3270105 | 727205 | 4 | 2.9 | 3.3 | | 13.01 | 13014.0483365 | 27.1 | 9/11/2003 | 9:58:40 AM | 9/11/03 9:58 | 1.124074 | NAD 83 CONUS | Zone 15 North |
| 3270039 | 727218 | 5 | 5.18 | 5.58 | | 12.95 | 12946.3523118 | 27.3 | 9/11/2003 | 10:02:54 AM | 9/11/03 10:02 | 1.127014 | NAD 83 CONUS | Zone 15 North |
| 3269952 | 727215 | 6 | 5.08 | 5.48 | | 12.86 | 12859.2272443 | 27.3 | 9/11/2003 | 10:07:39 AM | 9/11/03 10:07 | 1.130313 | NAD 83 CONUS | Zone 15 North |
| 3269880 | 727216 | 7 | 8.91 | 9.31 | | 12.79 | 12787.2791737 | 27.3 | 9/11/2003 | 10:12:18 AM | 9/11/03 10:12 | 1.133542 | NAD 83 CONUS | Zone 15 North |
| 3269787 | 727215 | 8 | 12.1 | 12.5 | | 12.69 | 12694.2822479 | 27.3 | 9/11/2003 | 10:16:56 AM | 9/11/03 10:16 | 1.136759 | NAD 83 CONUS | Zone 15 North |
| 3269705 | 727213 | 10 | 19.5 | 19.9 | | 12.61 | 12612.2097113 | 27.3 | 9/11/2003 | 10:21:15 AM | 9/11/03 10:21 | 1.139757 | NAD 83 CONUS | Zone 15 North |
| 3269593 | 727200 | 11 | 28.6 | 29 | | 12.50 | 12498.8093984 | 27.3 | 9/11/2003 | 10:28:26 AM | 9/11/03 10:28 | 1.144745 | NAD 83 CONUS | Zone 15 North |
| 3269469 | 727191 | 12 | 34.1 | 34.5 | | 12.37 | 12374.1908330 | 27.3 | 9/11/2003 | 10:34:00 AM | 9/11/03 10:34 | 1.148611 | NAD 83 CONUS | Zone 15 North |
| 3269357 | 727189 | 13 | 41.3 | 41.7 | | 12.26 | 12262.1856324 | 27.3 | 9/11/2003 | 10:39:06 AM | 9/11/03 10:39 | 1.152153 | NAD 83 CONUS | Zone 15 North |
| 3269254 | 727176 | 14 | 34.2 | 34.6 | | 12.16 | 12158.4895628 | 27.3 | 9/11/2003 | 10:44:09 AM | 9/11/03 10:44 | 1.155660 | NAD 83 CONUS | Zone 15 North |
| 3269167 | 727163 | 15 | 24.8 | 25.2 | | 12.07 | 12070.0808878 | 27.4 | 9/11/2003 | 10:48:50 AM | 9/11/03 10:48 | 1.158912 | NAD 83 CONUS | Zone 15 North |
| 3269089 | 727144 | 16 | 6.93 | 7.33 | | 11.99 | 11989.7121841 | 27.4 | 9/11/2003 | 10:53:46 AM | 9/11/03 10:53 | 1.162338 | NAD 83 CONUS | Zone 15 North |
| 3269024 | 727131 | 17 | 2.38 | 2.78 | | 11.92 | 11923.1404791 | 27.4 | 9/11/2003 | 10:58:25 AM | 9/11/03 10:58 | 1.165567 | NAD 83 CONUS | Zone 15 North |
| 3268956 | 727107 | 18 | 1.33 | 1.73 | | 11.85 | 11850.9646995 | 27.4 | 9/11/2003 | 11:02:28 AM | 9/11/03 11:02 | 1.168380 | NAD 83 CONUS | Zone 15 North |
| 3268911 | 727087 | 19 | 0.025 | 0.425 | | 11.80 | 11801.9965561 | 27.5 | 9/11/2003 | 11:05:58 AM | 9/11/03 11:05 | 1.170810 | NAD 83 CONUS | Zone 15 North |

| | |
|---|---|
| Average Time | 1.141174 |
| Average Time in Hours | 27.388187 |
| Average Time in Seconds | **98597.473685** |

# Bayou Chauvin Dye Run 1

| | | |
|---|---|---|
| Bayou Chauvin Run 1 User Inputs | Depth of Stream (meters) | 1.186 |
| | Width of Stream (meters) | 24.994 |
| | Time Elapsed Since Dye Injection (sec) | 19874 |
| | [1]Mass of Solution Injected (kg) | 20.000 |
| | Number of Iterations | 10 |
| [2]Initial Guess | $K_d$ : Diffusion ($m^2/s$) | 0.5000 |

Run Dispersion Routine

[1]Mass of solution injected is multiplied by 0.2 since the solution is 20% dye

[2]Initial guesses must be chosen carefully chosen since they control to a great degree the success and rate of convergence of the Gauss–Newton algorithm

| Bayou Chauvin Observed Dye Data for Run 1 | |
|---|---|
| f(X): Concentration (ppb) | X: Distance From Injection Point (meters) |
| 0 | 13094.93469 |
| 8.15 | 13047.41753 |
| 35.3 | 13034.95816 |
| 150.8 | 13016.66612 |
| 182.8 | 12996.9507 |
| 210.8 | 12978.41666 |
| 249.8 | 12957.50879 |
| 181.8 | 12943.43797 |
| 142.8 | 12926.33516 |
| 116.8 | 12918.35062 |
| 40.3 | 12909.30587 |
| 19.6 | 12895.27079 |
| 6.03 | 12881.24896 |
| 2.5 | 12856.30099 |
| 0.817 | 12828.21043 |

Dye Run 1 did not converge. No value could be calculated.

# Bayou Chauvin Dye Run 2

| | | |
|---|---|---|
| Bayou Chauvin Run 2 User Inputs | Depth of Stream (meters) | 1.183 |
| | Width of Stream (meters) | 24.732 |
| | Time Elapsed Since Dye Injection (sec) | 41242 |
| | [1]Mass of Solution Injected (kg) | 20.000 |
| | Number of Iterations | 10 |
| [2]Initial Guess | $K_d$ : Diffusion ($m^2/s$) | 0.5000 |

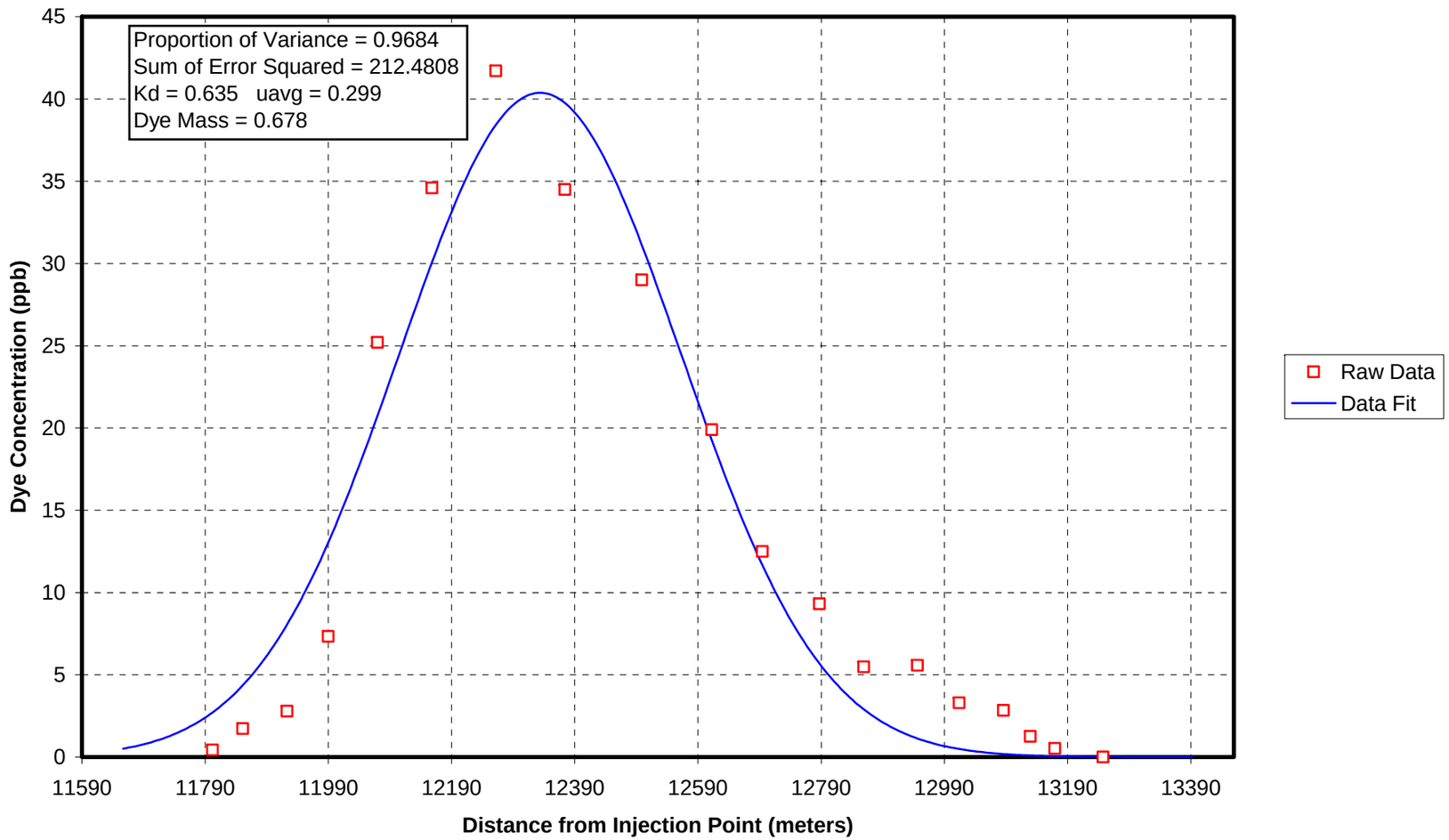
Run Dispersion Routine

[1]Mass of solution injected is multiplied by 0.2 since the solution is 20% dye

[2]Initial guesses must be chosen carefully chosen since they control to a great degree the success and rate of convergence of the Gauss–Newton algorithm

| Bayou Chauvin Observed Dye Data for Run 2 | |
|---|---|
| f(X): Concentration (ppb) | X: Distance From Injection Point (meters) |
| 0 | 13247.46202 |
| 0.526 | 13169.07366 |
| 1.249 | 13129.65273 |
| 2.83 | 13085.88323 |
| 3.3 | 13014.04834 |
| 5.58 | 12946.35231 |
| 5.48 | 12859.22724 |
| 9.31 | 12787.27917 |
| 12.5 | 12694.28225 |
| 19.9 | 12612.20971 |
| 29 | 12498.8094 |
| 34.5 | 12374.19083 |
| 41.7 | 12262.18563 |
| 34.6 | 12158.48956 |
| 25.2 | 12070.08089 |
| 7.33 | 11989.71218 |
| 2.78 | 11923.14048 |
| 1.73 | 11850.9647 |
| 0.43 | 11802 |

**Bayou Chauvin Run 2**
**Non Linear Regression of Dye Data**



# Bayou Chauvin Dye Run 3

| | | |
|---|---|---|
| **Bayou Chauvin Run 3 User Inputs** | Depth of Stream (meters) | 1.196 |
| | Width of Stream (meters) | 24.780 |
| | Time Elapsed Since Dye Injection (sec) | 98597 |
| | [1]Mass of Solution Injected (kg) | 20.000 |
| | Number of Iterations | 10 |
| **[2]Initial Guess** | $K_d$ : Diffusion ($m^2/s$) | 0.5000 |

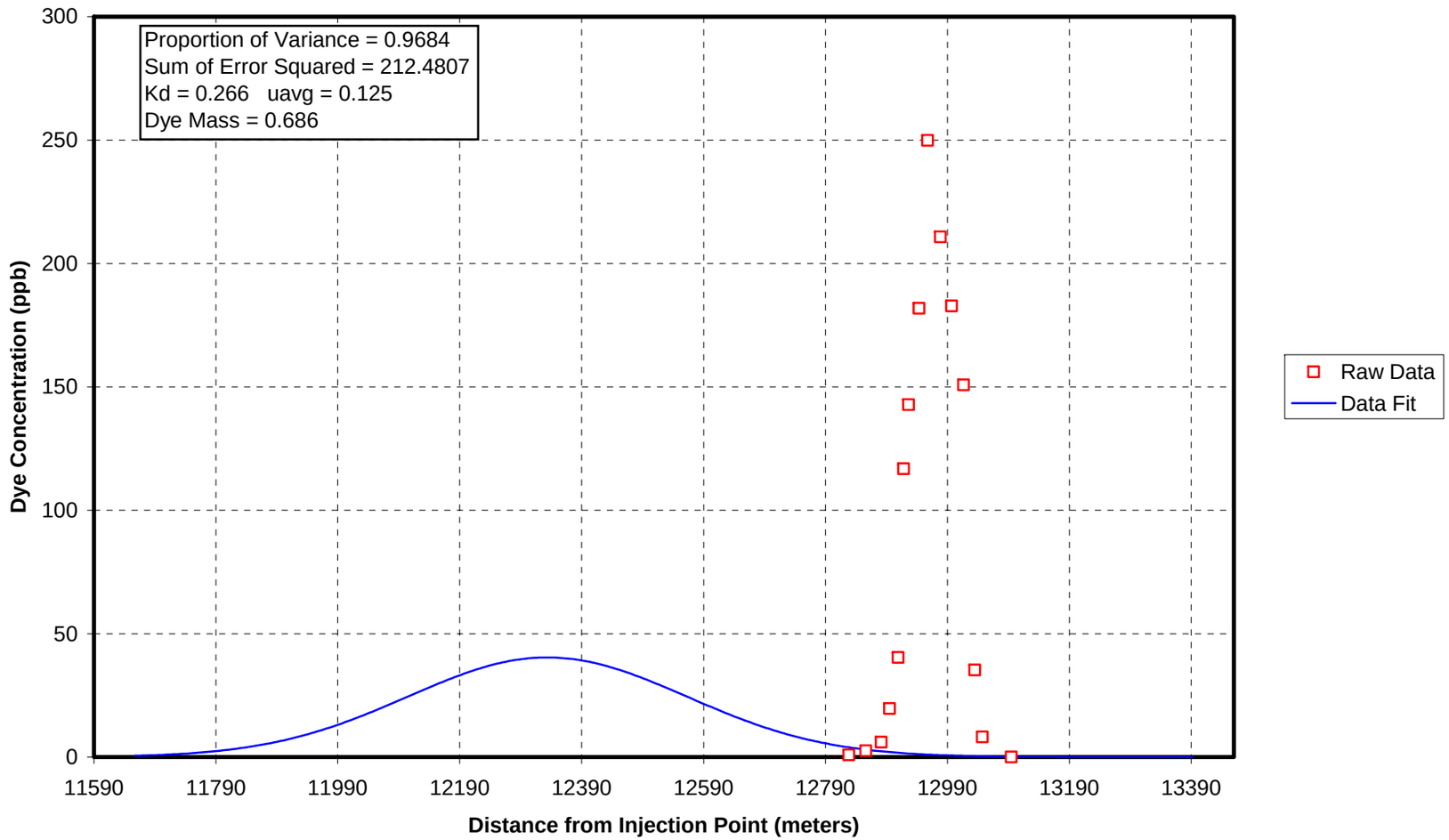
Run Dispersion Routine

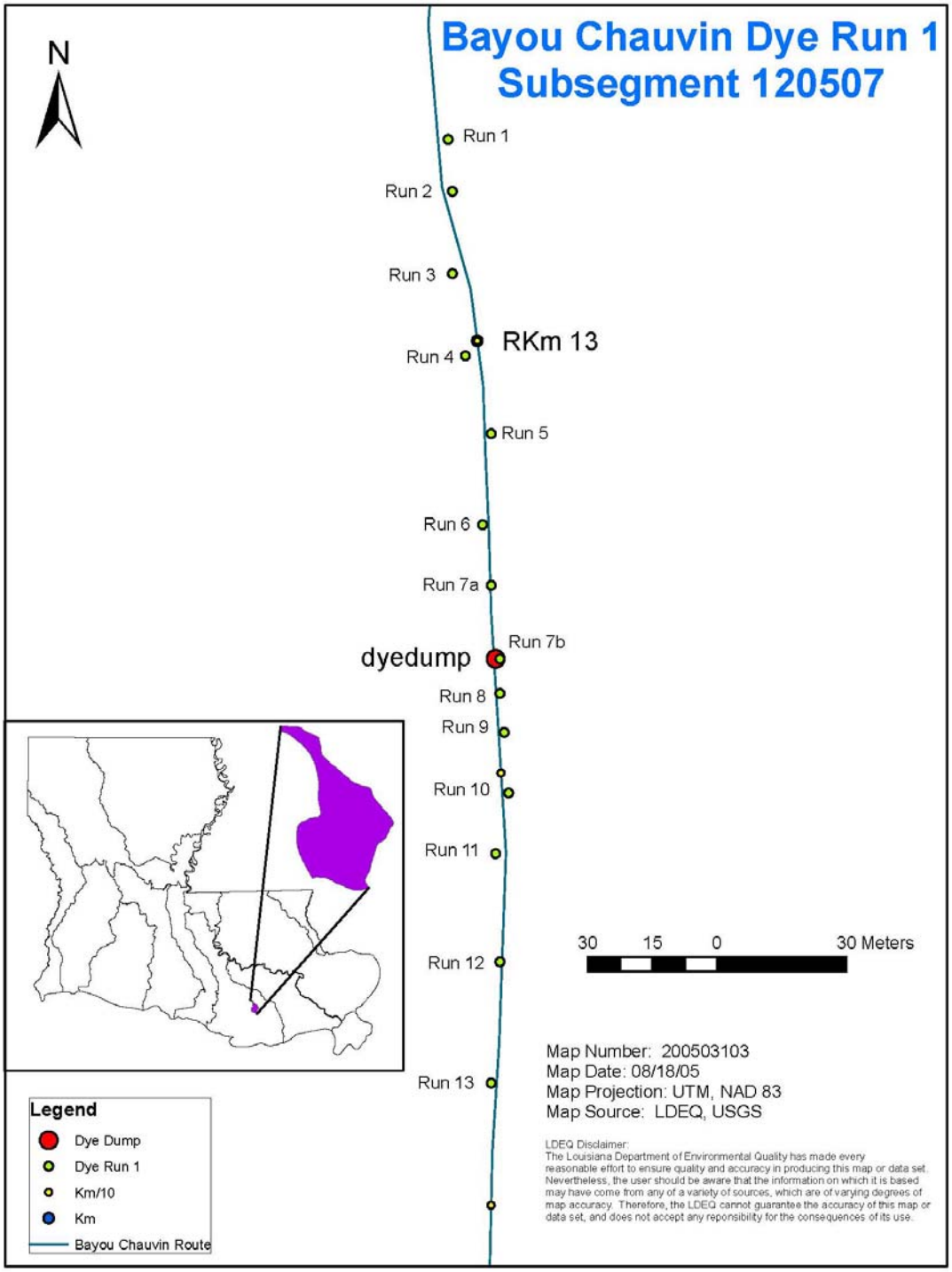
[1]Mass of solution injected is multiplied by 0.2 since the solution is 20% dye

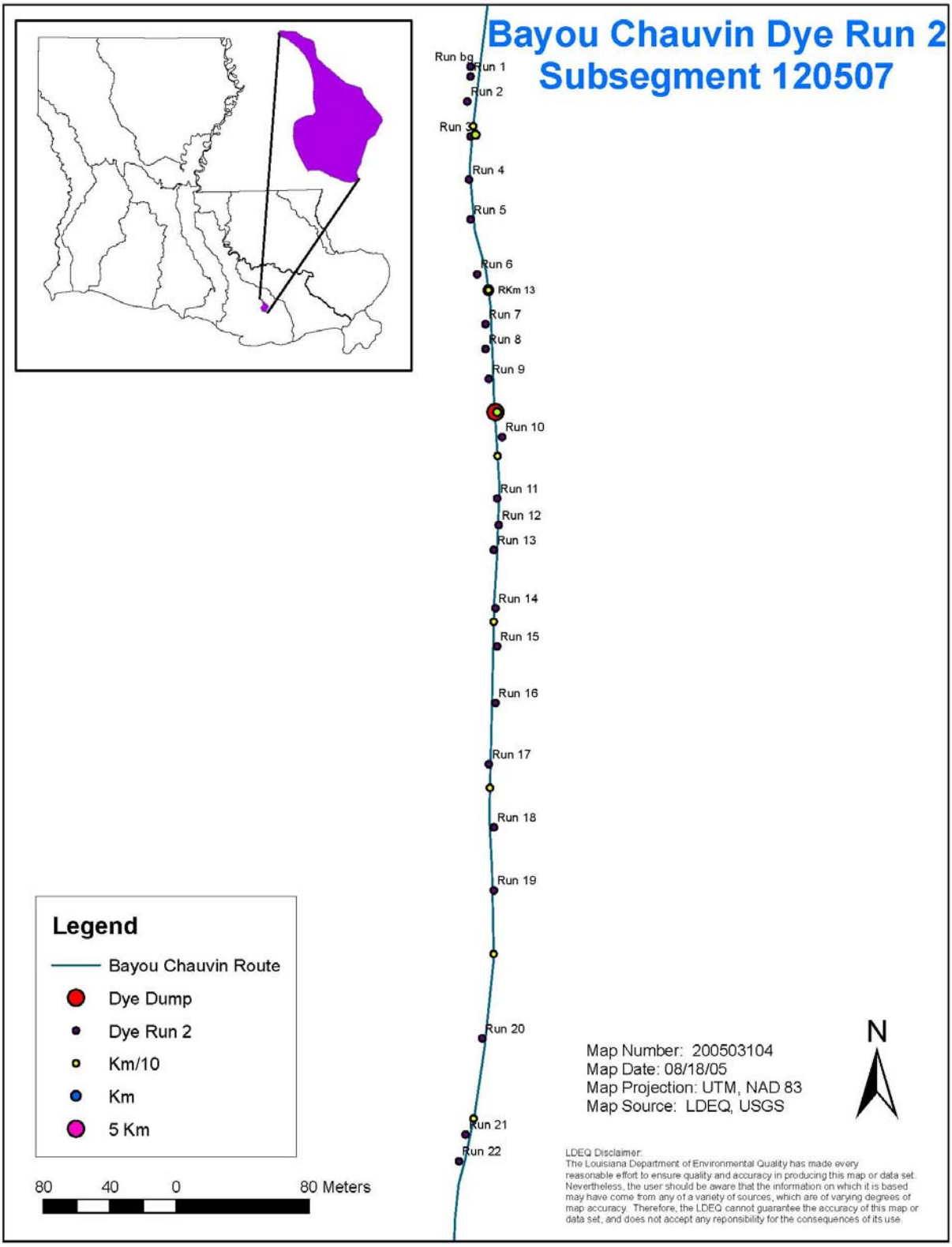
[2]Initial guesses must be chosen carefully chosen since they control to a great degree the success and rate of convergence of the Gauss–Newton algorithm

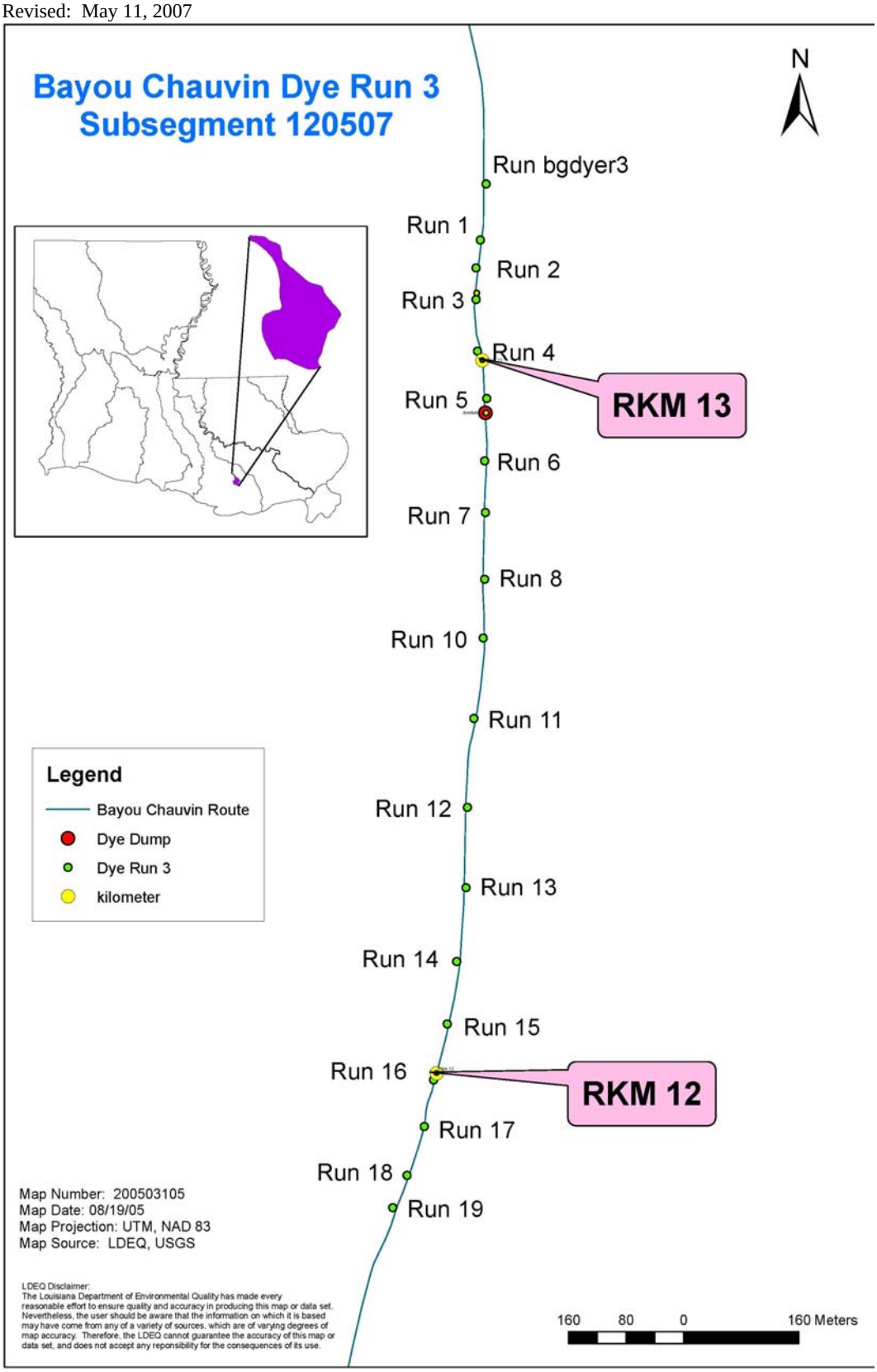
| Bayou Chauvin Observed Dye Data for Run 3 | |
|---|---|
| **f(X): Concentration (ppb)** | **X: Distance From Injection Point (meters)** |
| 0 | 13247.46202 |
| 0.526 | 13169.07366 |
| 1.249 | 13129.65273 |
| 2.83 | 13085.88323 |
| 3.3 | 13014.04834 |
| 5.58 | 12946.35231 |
| 5.48 | 12859.22724 |
| 9.31 | 12787.27917 |
| 12.5 | 12694.28225 |
| 19.9 | 12612.20971 |
| 29 | 12498.8094 |
| 34.5 | 12374.19083 |
| 41.7 | 12262.18563 |
| 34.6 | 12158.48956 |
| 25.2 | 12070.08089 |
| 7.33 | 11989.71218 |
| 2.78 | 11923.14048 |
| 1.73 | 11850.9647 |
| 0.43 | 11802 |

**Bayou Chauvin Run 3**
**Non Linear Regression of Dye Data**




Bayou Chauvin Dye Run 1
Subsegment 120507
N
Run 1
Run 2
Run 3
RKm 13
Run 4
Run 5
Run 6
Run 7a
Run 7b
dyedump
Run 8
Run 9
Run 10
Run 11
Run 12
Run 13
30 15 0 30 Meters
Map Number: 200503103
Map Date: 08/18/05
Map Projection: UTM, NAD 83
Map Source: LDEQ, USGS
LDEQ Disclaimer:
The Louisiana Department of Environmental Quality has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, the LDEQ cannot guarantee the accuracy of this map or data set, and does not accept any reponsibility for the consequences of its use.
Legend
Dye Dump
Dye Run 1
Km/10
Km
Bayou Chauvin Route


Bayou Chauvin Dye Run 2
Subsegment 120507
Run bg
Run 1
Run 2
Run 3
Run 4
Run 5
Run 6
RKm 13
Run 7
Run 8
Run 9
Run 10
Run 11
Run 12
Run 13
Run 14
Run 15
Run 16
Run 17
Run 18
Run 19
Run 20
Run 21
Run 22
Legend
Bayou Chauvin Route
Dye Dump
Dye Run 2
Km/10
Km
5 Km
80 40 0 80 Meters
Map Number: 200503104
Map Date: 08/18/05
Map Projection: UTM, NAD 83
Map Source: LDEQ, USGS
N
LDEQ Disclaimer:
The Louisiana Department of Environmental Quality has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, the LDEQ cannot guarantee the accuracy of this map or data set, and does not accept any reponsibility for the consequences of its use.


Bayou Chauvin Dye Run 3
Subsegment 120507
N
Run bgdyer3
Run 1
Run 2
Run 3
Run 4
RKM 13
Run 5
Run 6
Run 7
Run 8
Run 10
Run 11
Run 12
Run 13
Run 14
Run 15
Run 16
RKM 12
Run 17
Run 18
Run 19
Legend
Bayou Chauvin Route
Dye Dump
Dye Run 3
kilometer
Map Number: 200503105
Map Date: 08/19/05
Map Projection: UTM, NAD 83
Map Source: LDEQ, USGS
LDEQ Disclaimer:
The Louisiana Department of Environmental Quality has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, the LDEQ cannot guarantee the accuracy of this map or data set, and does not accept any reponsibility for the consequences of its use.
160 80 0 160 Meters

# Appendix G– Historical and Ambient Data

# Appendix G1 – Ambient Data

# Critical Temperature and DO Determinations:

***SITE NUMBER:*** 0345

***SITE DESCRIPTION:*** Bayou Chauvin near Houma, Louisiana

| | Summer Season | Winter Season |
|---|---|---|
| ***90th Percentile Temperature(°C):*** | 28.40 | 20.96 |
| ***90 % DO Sat (mg/L):*** | 7.00 | 8.03 |
| ***Months:*** | May To Oct | Nov To Apr |

| Date | Water Temp. (°C) | DO (mg/L) |
|---|---|---|
| 4/13/1998 | 21.10 | 4.60 |
| 2/9/1998 | 13.90 | 6.90 |
| 12/8/1997 | 12.59 | 3.13 |
| 10/13/1997 | 25.40 | 0.60 |
| 8/11/1997 | 27.70 | 1.70 |
| 6/9/1997 | 25.50 | 0.73 |
| 4/14/1997 | 17.70 | 2.40 |
| 2/17/1997 | 11.99 | 5.30 |
| 12/9/1996 | 14.20 | 1.70 |
| 10/14/1996 | 19.90 | 0.75 |
| 8/12/1996 | 25.00 | 3.30 |
| 6/10/1996 | 24.60 | 0.05 |
| 4/8/1996 | 16.40 | 1.40 |
| 2/12/1996 | 12.50 | 8.60 |
| 12/11/1995 | 11.80 | 5.50 |
| 10/9/1995 | 23.00 | 3.30 |
| 8/14/1995 | 31.40 | 1.90 |
| 6/12/1995 | 29.60 | 1.50 |
| 4/3/1995 | 19.20 | 3.50 |
| 2/13/1995 | 13.70 | 7.00 |
| 12/12/1994 | 15.30 | 1.00 |
| 10/10/1994 | 21.50 | 3.50 |
| 8/8/1994 | 28.40 | 3.75 |
| 6/13/1994 | 25.40 | 3.20 |

| Date | Water Temp. (°C) | DO (mg/L) |
|---|---|---|
| 4/11/1994 | 23.50 | 5.00 |
| 2/7/1994 | 15.14 | 4.20 |
| 12/13/1993 | 15.30 | 1.02 |
| 10/11/1993 | 21.70 | 0.65 |
| 8/9/1993 | 27.50 | 1.10 |
| 6/14/1993 | 28.20 | 2.20 |
| 4/12/1993 | 20.40 | 4.00 |
| 2/8/1993 | 15.30 | 7.50 |
| 12/14/1992 | 15.40 | 1.00 |
| 10/12/1992 | 21.30 | 1.80 |
| 8/10/1992 | 28.30 | 3.00 |
| 6/15/1992 | 26.30 | 1.70 |
| 4/6/1992 | 16.80 | 8.60 |
| 2/10/1992 | 12.00 | 2.00 |
| 12/9/1991 | 16.90 | 0.50 |
| 10/14/1991 | 23.40 | 7.50 |
| 8/12/1991 | 25.50 | 2.50 |
| 6/10/1991 | 26.60 | 2.50 |
| 4/15/1991 | 21.70 | 4.00 |
| 2/4/1991 | 16.40 | 1.00 |

# Critical Temperature and DO Determinations:

***SITE NUMBER:*** 0346

***SITE DESCRIPTION:*** Bayou Chauvin south of Houma, Louisiana

| | Summer Season | Winter Season |
|---|---|---|
| ***90th Percentile Temperature(°C):*** | 30.17 | 22.42 |
| ***90 % DO Sat (mg/L):*** | 6.78 | 7.81 |
| ***Months:*** | May To Oct | Nov To Apr |

| Date | Water Temp. (°C) | DO (mg/L) |
|---|---|---|
| 12/6/2004 | 17.02 | 9.00 |
| 11/8/2004 | 18.56 | 5.81 |
| 10/4/2004 | 29.13 | 3.83 |
| 9/8/2004 | 28.58 | 3.36 |
| 8/9/2004 | 28.75 | 4.49 |
| 7/12/2004 | 30.25 | 6.48 |
| 6/14/2004 | 29.85 | 4.13 |
| 5/17/2004 | 25.87 | 3.66 |
| 4/19/2004 | 23.69 | 5.55 |
| 3/22/2004 | 17.02 | 4.82 |
| 2/16/2004 | 10.06 | 9.86 |
| 1/20/2004 | 8.85 | 9.40 |
| 12/13/2000 | 11.62 | 9.18 |
| 11/8/2000 | 24.26 | 3.67 |
| 10/11/2000 | 13.99 | 8.18 |
| 9/13/2000 | 29.27 | 3.77 |
| 8/16/2000 | 29.60 | 1.99 |
| 7/19/2000 | 29.78 | 0.69 |
| 6/22/2000 | 32.17 | 6.21 |
| 5/17/2000 | 26.87 | 3.10 |
| 4/18/2000 | 24.60 | 2.40 |
| 3/22/2000 | 20.02 | 5.22 |
| 2/16/2000 | 21.34 | 8.11 |
| 1/19/2000 | 19.50 | 7.30 |

| Date | Water Temp. (°C) | DO (mg/L) |
|---|---|---|
| 5/11/1998 | 25.90 | 4.50 |
| 3/9/1998 | 12.50 | 8.60 |
| 1/12/1998 | 15.76 | 7.36 |
| 11/17/1997 | 12.00 | 7.70 |
| 9/8/1997 | 27.90 | 6.17 |
| 7/14/1997 | 27.90 | 1.50 |
| 5/12/1997 | 21.90 | 6.60 |
| 3/10/1997 | 22.60 | 8.30 |
| 1/6/1997 | 20.30 | 4.40 |
| 11/18/1996 | 20.10 | 6.70 |
| 9/9/1996 | 28.90 | 1.00 |
| 7/8/1996 | 29.20 | 4.96 |
| 5/13/1996 | 27.60 | 3.70 |
| 3/11/1996 | 10.00 | 7.40 |
| 1/9/1996 | 5.70 | 7.10 |
| 11/13/1995 | 15.80 | 6.81 |
| 9/11/1995 | 27.10 | 3.10 |
| 7/10/1995 | 30.30 | 3.00 |
| 5/8/1995 | 26.60 | 6.50 |
| 3/13/1995 | 17.50 | 8.35 |
| 1/9/1995 | 13.10 | 7.00 |
| 11/14/1994 | 21.90 | 6.00 |
| 9/13/1994 | 29.10 | 4.20 |
| 7/11/1994 | 27.70 | 5.30 |
| 5/9/1994 | 27.20 | 5.20 |
| 3/14/1994 | 16.20 | 4.50 |
| 1/10/1994 | 9.60 | 9.90 |
| 9/13/1993 | 29.20 | 4.80 |
| 7/12/1993 | 29.00 | 1.80 |
| 5/10/1993 | 26.20 | 4.00 |
| 3/8/1993 | 17.30 | 7.50 |
| 1/11/1993 | 16.70 | 5.00 |
| 11/16/1992 | 15.80 | 7.20 |

| *Date* | *Water Temp. (°C)* | *DO (mg/L)* |
|---|---|---|
| 9/14/1992 | 27.80 | 1.80 |
| 7/13/1992 | 31.10 | 3.90 |
| 5/11/1992 | 23.00 | 6.60 |
| 3/9/1992 | 22.00 | 5.50 |
| 1/6/1992 | 13.10 | 9.40 |
| 11/18/1991 | 18.90 | 7.60 |
| 9/9/1991 | 28.30 | 2.00 |
| 5/13/1991 | 26.30 | 4.60 |
| 3/11/1991 | 17.20 | 6.50 |
| 1/14/1991 | 10.00 | 8.40 |

# Appendix G2 – Land Use

# Land Use Summary

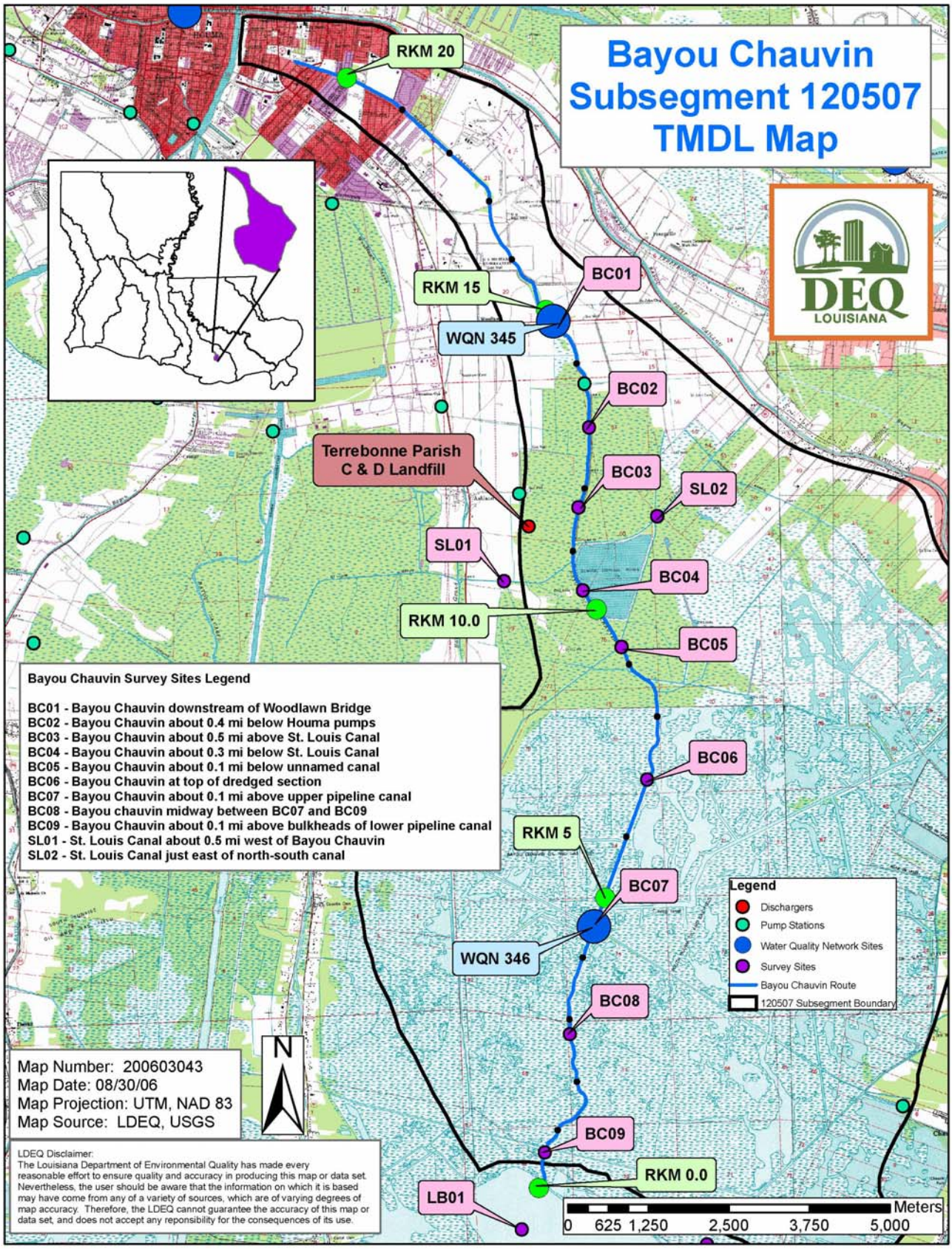
***Subsegment*** 120507

***Data Source Name:*** LA-GAP June 2000

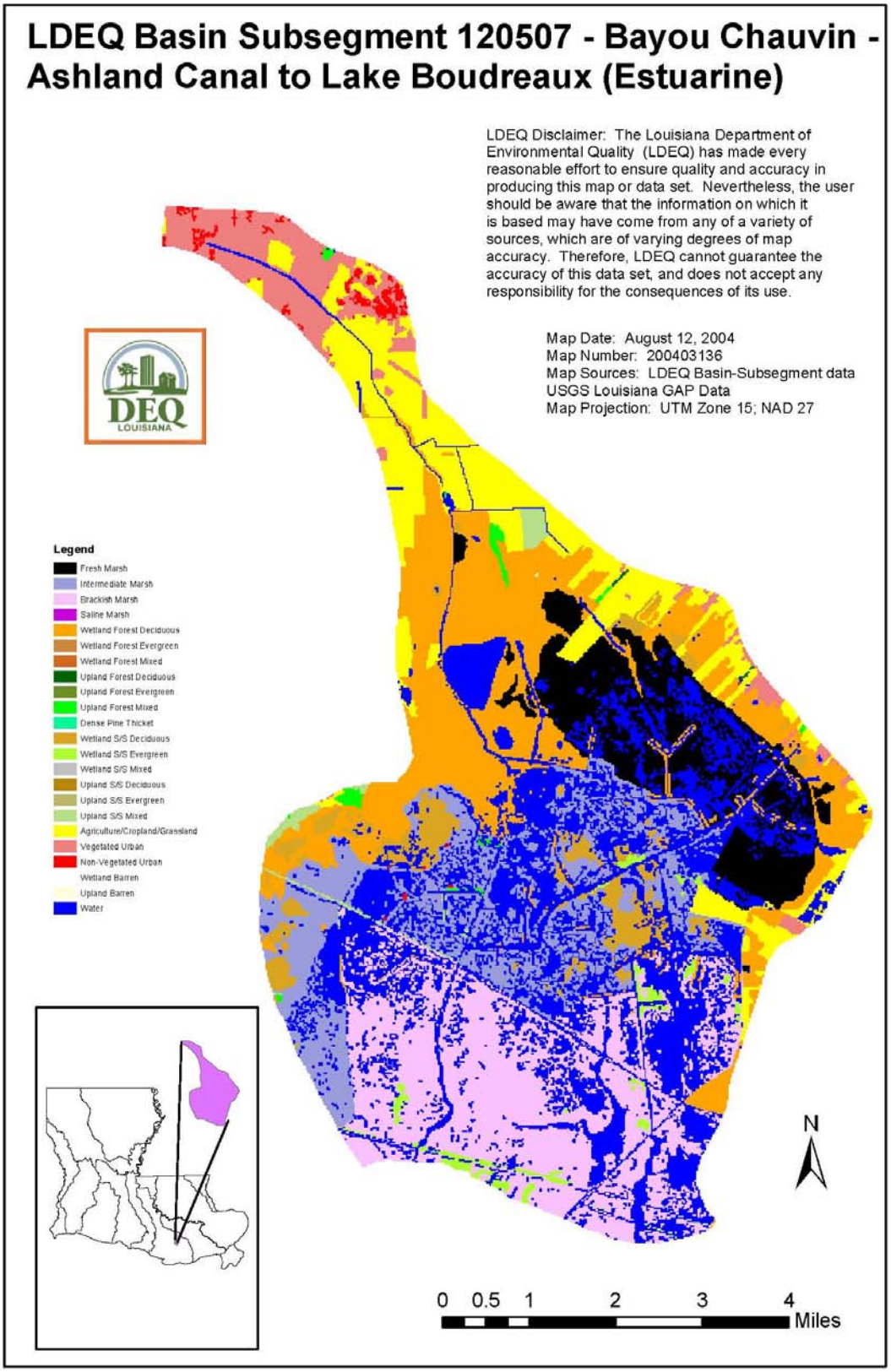
| Grid Name | Area (Acres) | % Land Use |
|---|---|---|
| Water | 7483.57 | 26.79 |
| Wetland Forest Deciduous | 4900.46 | 17.54 |
| Brackish Marsh | 4520.84 | 16.18 |
| Agriculture/Cropland/Grassland | 3021.23 | 10.81 |
| Intermediate Marsh | 2789.49 | 9.98 |
| Fresh Marsh | 2321.35 | 8.31 |
| Vegetated Urban | 1318.35 | 4.72 |
| Wetland S/S Deciduous | 933.39 | 3.34 |
| Wetland S/S Evergreen | 236.18 | 0.85 |
| Upland S/S Mixed | 177.92 | 0.64 |
| Non-Vegetated Urban | 140.11 | 0.50 |
| Upland Forest Mixed | 89.85 | 0.32 |
| Upland Forest Deciduous | 6.00 | 0.02 |
| Upland Barren | 0.67 | 0.00 |

# Appendix H – Maps and Diagrams

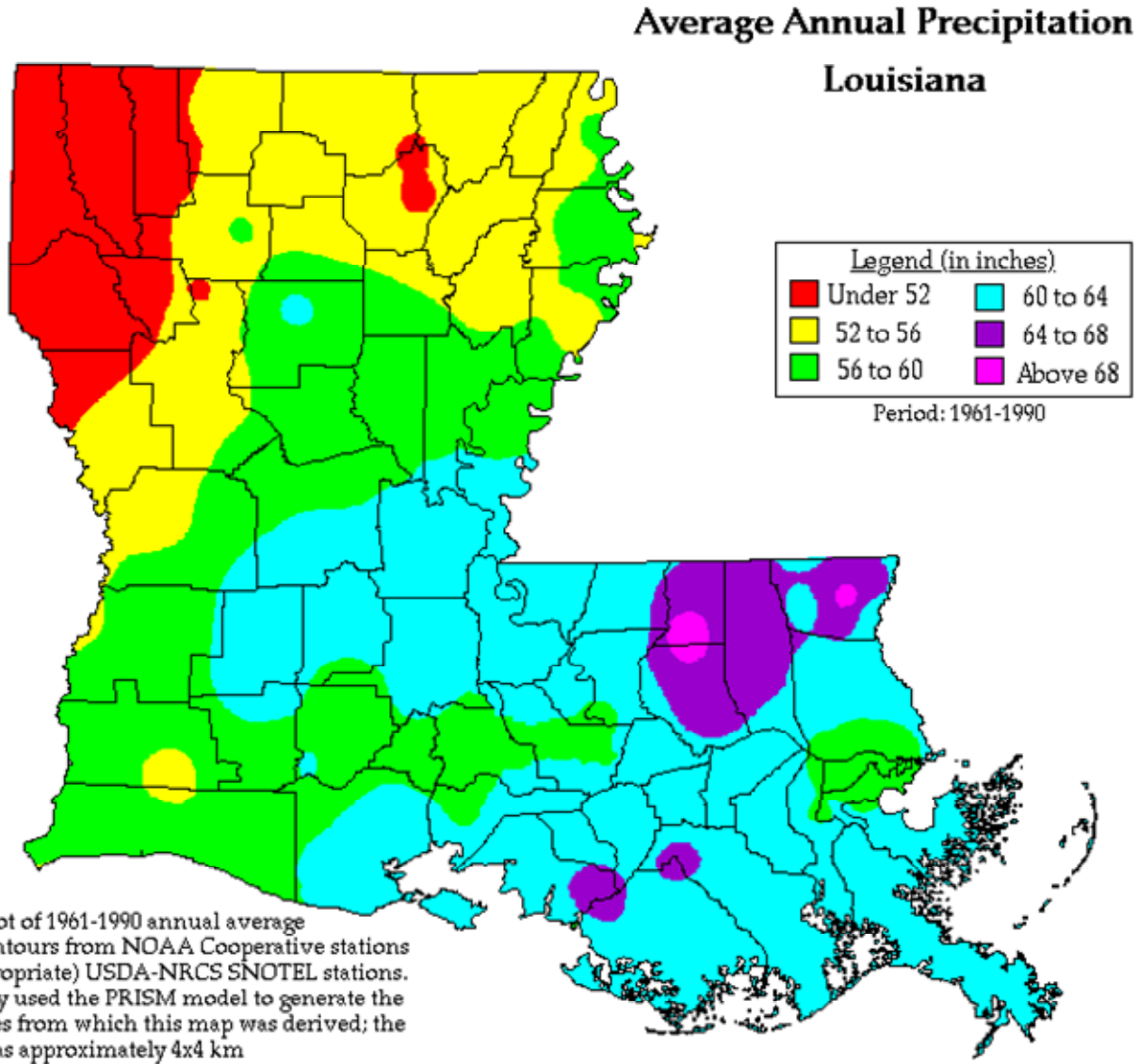
# Appendix H1- Overview map


Bayou Chauvin
Subsegment 120507
TMDL Map
DEQ
LOUISIANA
RKM 20
RKM 15
WQN 345
BC01
BC02
BC03
SL02
Terrebonne Parish
C & D Landfill
SL01
BC04
RKM 10.0
BC05
BC06
RKM 5
BC07
WQN 346
BC08
BC09
RKM 0.0
LB01
Bayou Chauvin Survey Sites Legend
BC01 - Bayou Chauvin downstream of Woodlawn Bridge
BC02 - Bayou Chauvin about 0.4 mi below Houma pumps
BC03 - Bayou Chauvin about 0.5 mi above St. Louis Canal
BC04 - Bayou Chauvin about 0.3 mi below St. Louis Canal
BC05 - Bayou Chauvin about 0.1 mi below unnamed canal
BC06 - Bayou Chauvin at top of dredged section
BC07 - Bayou Chauvin about 0.1 mi above upper pipeline canal
BC08 - Bayou chauvin midway between BC07 and BC09
BC09 - Bayou Chauvin about 0.1 mi above bulkheads of lower pipeline canal
SL01 - St. Louis Canal about 0.5 mi west of Bayou Chauvin
SL02 - St. Louis Canal just east of north-south canal
Legend
Dischargers
Pump Stations
Water Quality Network Sites
Survey Sites
Bayou Chauvin Route
120507 Subsegment Boundary
Map Number: 200603043
Map Date: 08/30/06
Map Projection: UTM, NAD 83
Map Source: LDEQ, USGS
N
LDEQ Disclaimer:
The Louisiana Department of Environmental Quality has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, the LDEQ cannot guarantee the accuracy of this map or data set, and does not accept any reponsibility for the consequences of its use.
Meters
0 625 1,250 2,500 3,750 5,000

# Appendix H2 – Land Use Map

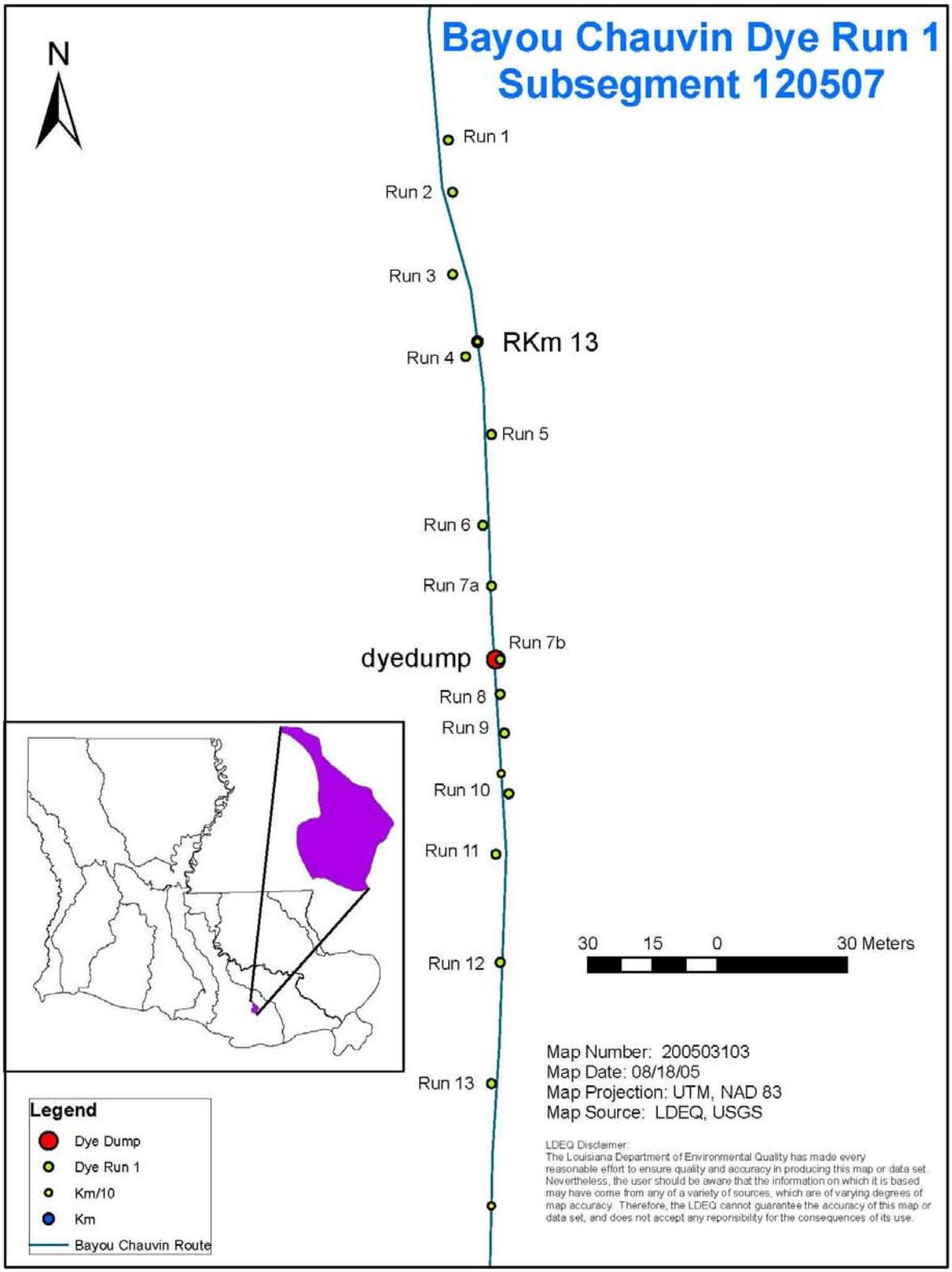

LDEQ Basin Subsegment 120507 - Bayou Chauvin - Ashland Canal to Lake Boudreaux (Estuarine)
LDEQ Disclaimer: The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.
Map Date: August 12, 2004
Map Number: 200403136
Map Sources: LDEQ Basin-Subsegment data
USGS Louisiana GAP Data
Map Projection: UTM Zone 15; NAD 27
DEQ
LOUISIANA
Legend
Fresh Marsh
Intermediate Marsh
Brackish Marsh
Saline Marsh
Wetland Forest Deciduous
Wetland Forest Evergreen
Wetland Forest Mixed
Upland Forest Deciduous
Upland Forest Evergreen
Upland Forest Mixed
Dense Pine Thicket
Wetland S/S Deciduous
Wetland S/S Evergreen
Wetland S/S Mixed
Upland S/S Deciduous
Upland S/S Evergreen
Upland S/S Mixed
Agriculture/Cropland/Grassland
Vegetated Urban
Non-Vegetated Urban
Wetland Barren
Upland Barren
Water
N
0 0.5 1 2 3 4
Miles

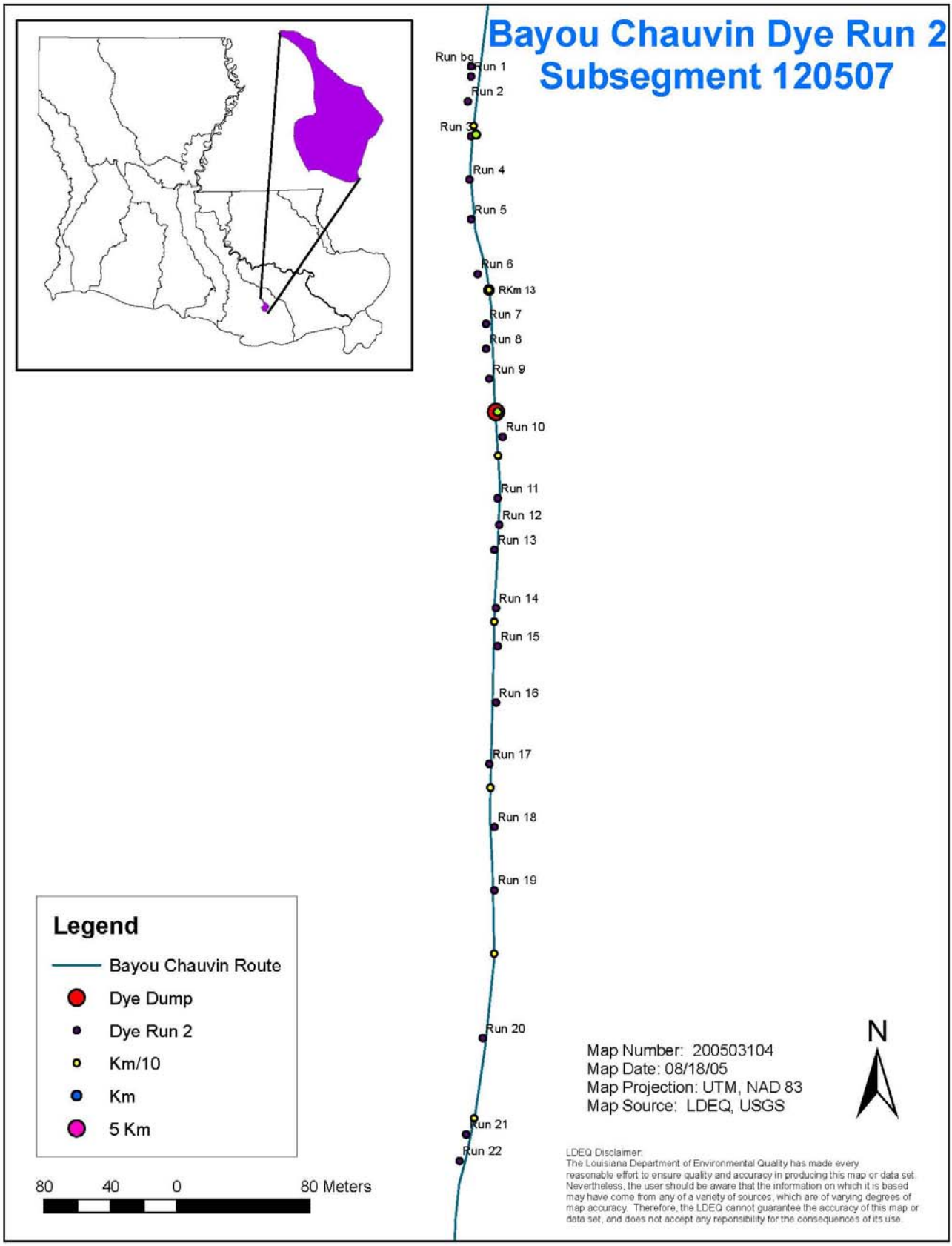
# Appendix H3 – La Precipitation Map

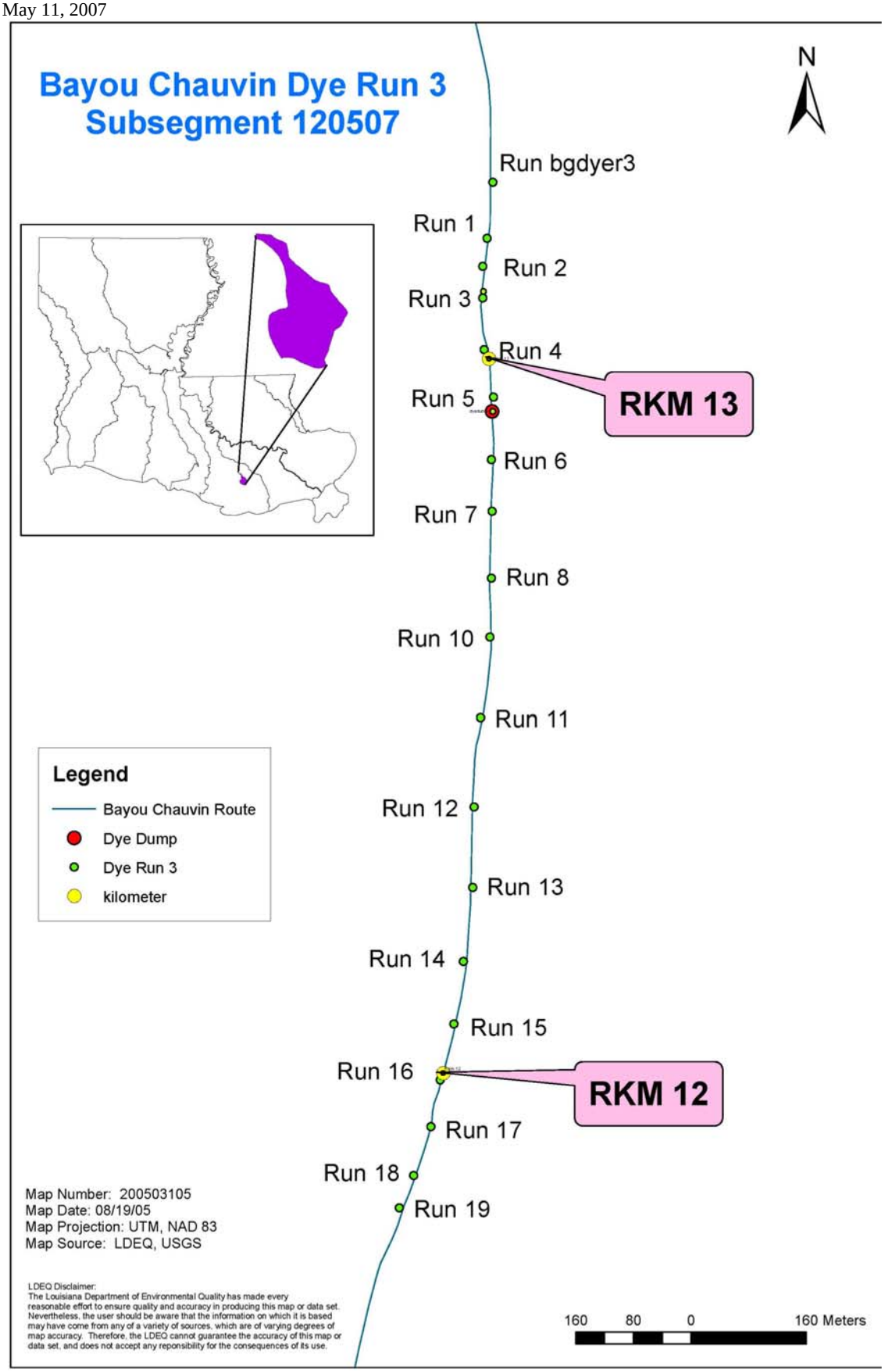



This map is a plot of 1961-1990 annual average precipitation contours from NOAA Cooperative stations and (where appropriate) USDA-NRCS SNOTEL stations. Christopher Daly used the PRISM model to generate the gridded estimates from which this map was derived; the modeled grid was approximately 4x4 km latitude/longitude, and was resampled to 2x2 km using a Gaussian filter. Mapping was performed by Jenny Weisburg. Funding was provided by USDA-NRCS National Water and Climate Center.

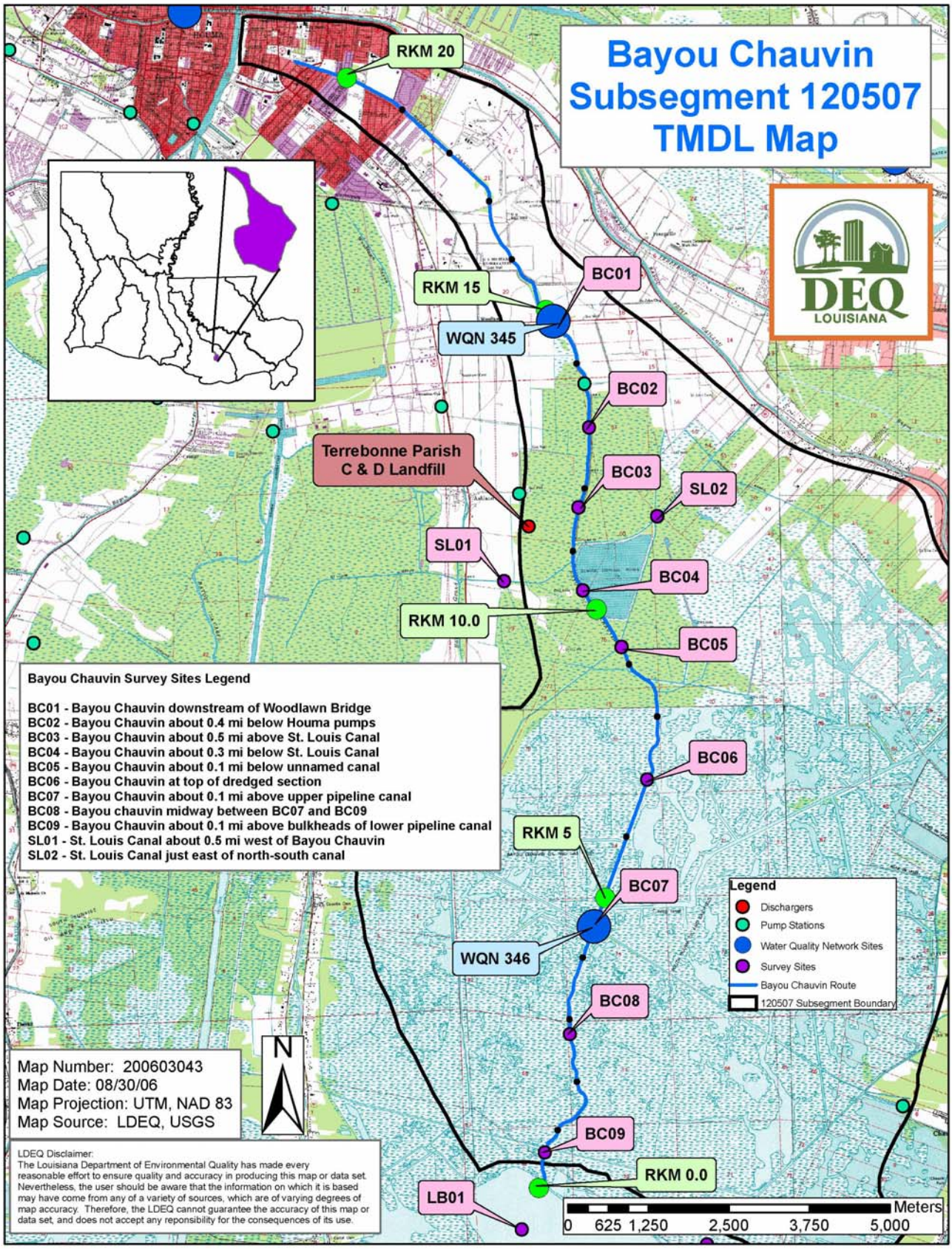
# Appendix H4 – Dye Run Maps


Bayou Chauvin Dye Run 1
Subsegment 120507
N
Run 1
Run 2
Run 3
RKm 13
Run 4
Run 5
Run 6
Run 7a
Run 7b
dyedump
Run 8
Run 9
Run 10
Run 11
Run 12
Run 13
30 15 0 30 Meters
Map Number: 200503103
Map Date: 08/18/05
Map Projection: UTM, NAD 83
Map Source: LDEQ, USGS
LDEQ Disclaimer:
The Louisiana Department of Environmental Quality has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, the LDEQ cannot guarantee the accuracy of this map or data set, and does not accept any reponsibility for the consequences of its use.
Legend
Dye Dump
Dye Run 1
Km/10
Km
Bayou Chauvin Route


Bayou Chauvin Dye Run 2
Subsegment 120507
Run bg
Run 1
Run 2
Run 3
Run 4
Run 5
Run 6
RKm 13
Run 7
Run 8
Run 9
Run 10
Run 11
Run 12
Run 13
Run 14
Run 15
Run 16
Run 17
Run 18
Run 19
Run 20
Run 21
Run 22
Legend
Bayou Chauvin Route
Dye Dump
Dye Run 2
Km/10
Km
5 Km
80 40 0 80 Meters
Map Number: 200503104
Map Date: 08/18/05
Map Projection: UTM, NAD 83
Map Source: LDEQ, USGS
N
LDEQ Disclaimer:
The Louisiana Department of Environmental Quality has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, the LDEQ cannot guarantee the accuracy of this map or data set, and does not accept any reponsibility for the consequences of its use.


Bayou Chauvin Dye Run 3
Subsegment 120507
N
Run bgdyer3
Run 1
Run 2
Run 3
Run 4
RKM 13
Run 5
Run 6
Run 7
Run 8
Run 10
Run 11
Run 12
Run 13
Run 14
Run 15
Run 16
RKM 12
Run 17
Run 18
Run 19
Legend
Bayou Chauvin Route
Dye Dump
Dye Run 3
kilometer
Map Number: 200503105
Map Date: 08/19/05
Map Projection: UTM, NAD 83
Map Source: LDEQ, USGS
LDEQ Disclaimer:
The Louisiana Department of Environmental Quality has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, the LDEQ cannot guarantee the accuracy of this map or data set, and does not accept any reponsibility for the consequences of its use.
160 80 0 160 Meters

# Appendix H5 – Pumping Stations


Bayou Chauvin
Subsegment 120507
TMDL Map
DEQ
LOUISIANA
RKM 20
RKM 15
WQN 345
BC01
BC02
BC03
SL02
Terrebonne Parish
C & D Landfill
SL01
BC04
RKM 10.0
BC05
BC06
RKM 5
BC07
WQN 346
BC08
BC09
RKM 0.0
LB01
Bayou Chauvin Survey Sites Legend
BC01 - Bayou Chauvin downstream of Woodlawn Bridge
BC02 - Bayou Chauvin about 0.4 mi below Houma pumps
BC03 - Bayou Chauvin about 0.5 mi above St. Louis Canal
BC04 - Bayou Chauvin about 0.3 mi below St. Louis Canal
BC05 - Bayou Chauvin about 0.1 mi below unnamed canal
BC06 - Bayou Chauvin at top of dredged section
BC07 - Bayou Chauvin about 0.1 mi above upper pipeline canal
BC08 - Bayou chauvin midway between BC07 and BC09
BC09 - Bayou Chauvin about 0.1 mi above bulkheads of lower pipeline canal
SL01 - St. Louis Canal about 0.5 mi west of Bayou Chauvin
SL02 - St. Louis Canal just east of north-south canal
Legend
Dischargers
Pump Stations
Water Quality Network Sites
Survey Sites
Bayou Chauvin Route
120507 Subsegment Boundary
Map Number: 200603043
Map Date: 08/30/06
Map Projection: UTM, NAD 83
Map Source: LDEQ, USGS
N
LDEQ Disclaimer:
The Louisiana Department of Environmental Quality has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, the LDEQ cannot guarantee the accuracy of this map or data set, and does not accept any reponsibility for the consequences of its use.
Meters
0 625 1,250 2,500 3,750 5,000

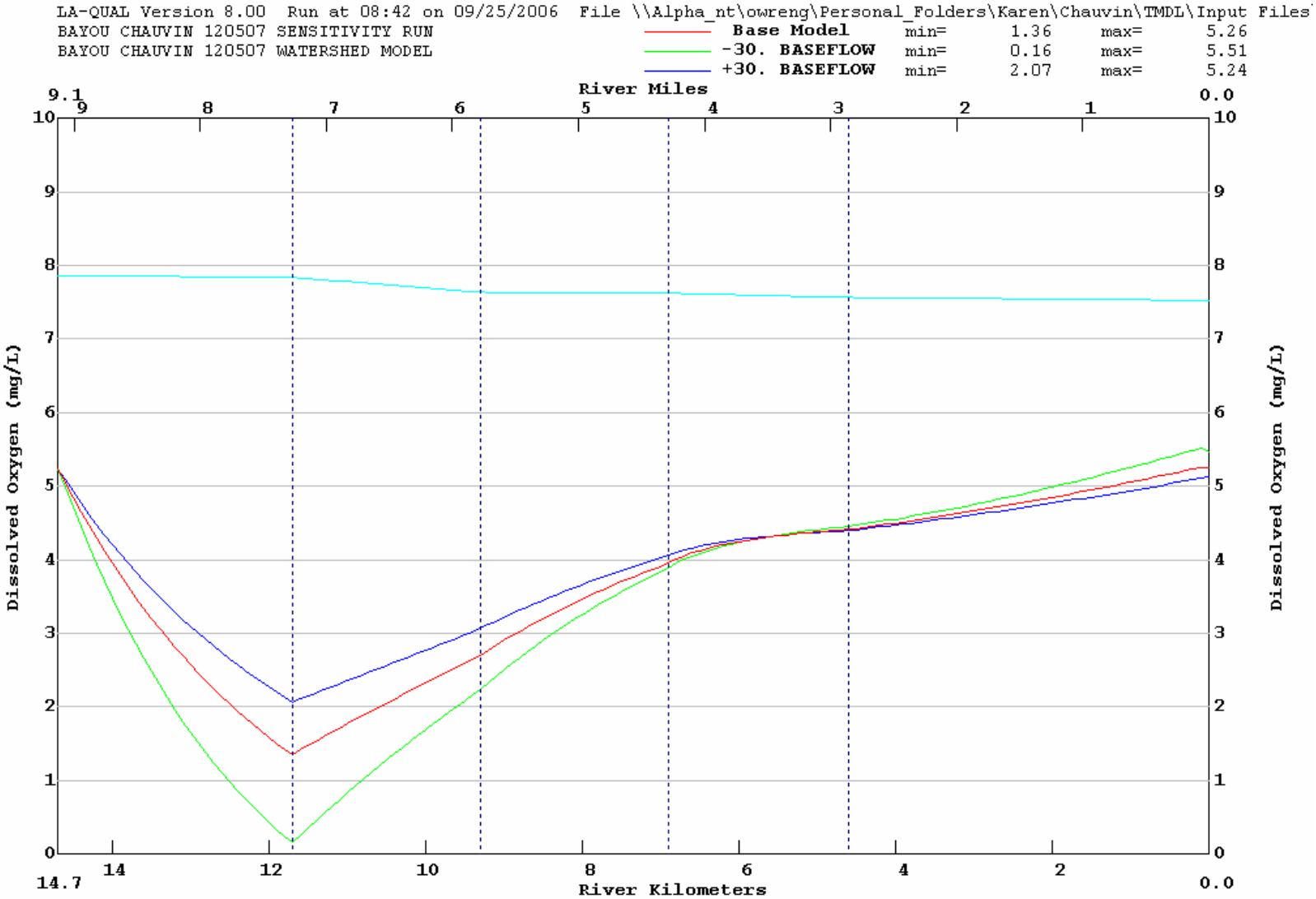
# Appendix I – Sensitivity Analysis

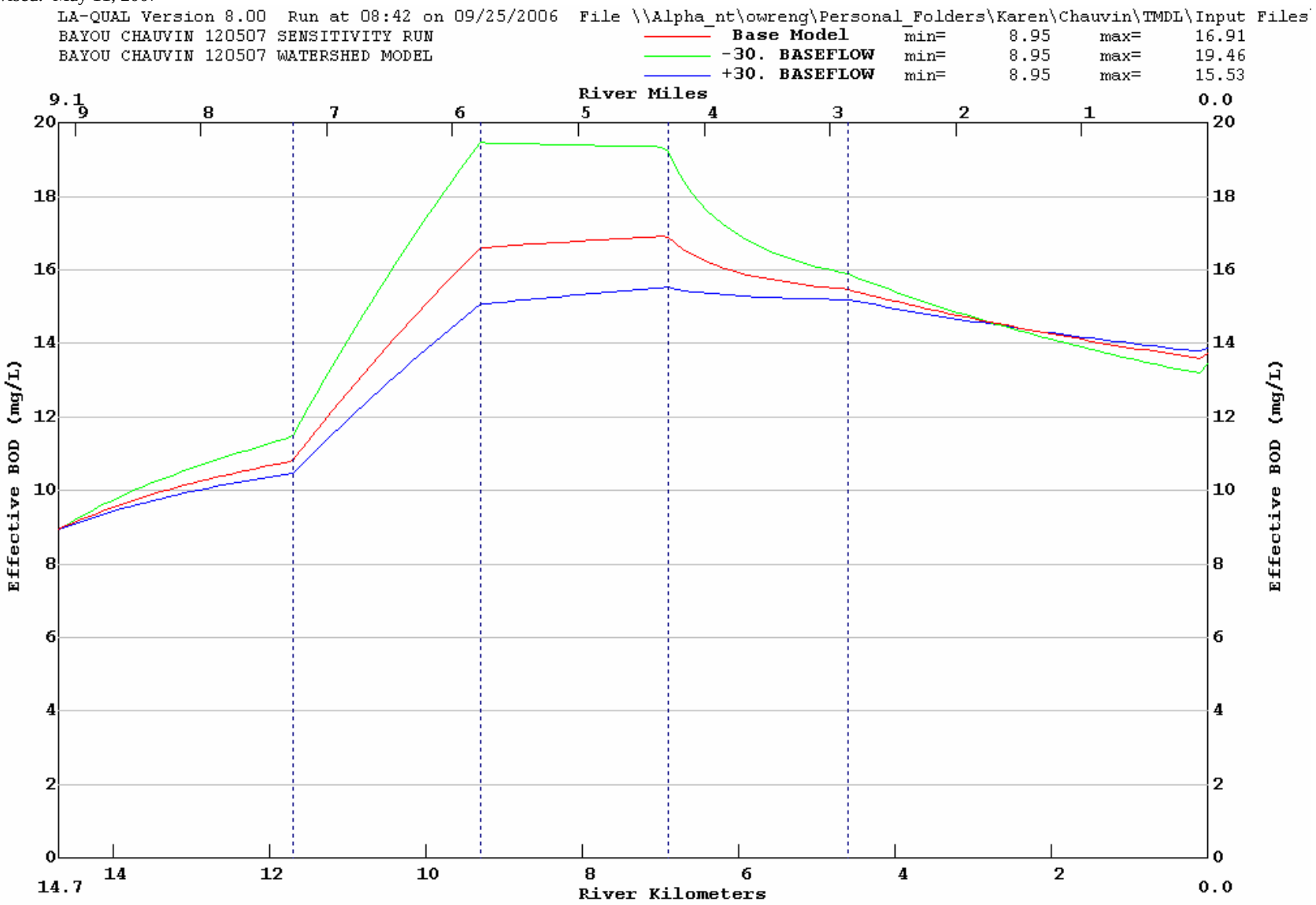
# Appendix I1 – Sensitivity Output Graphs

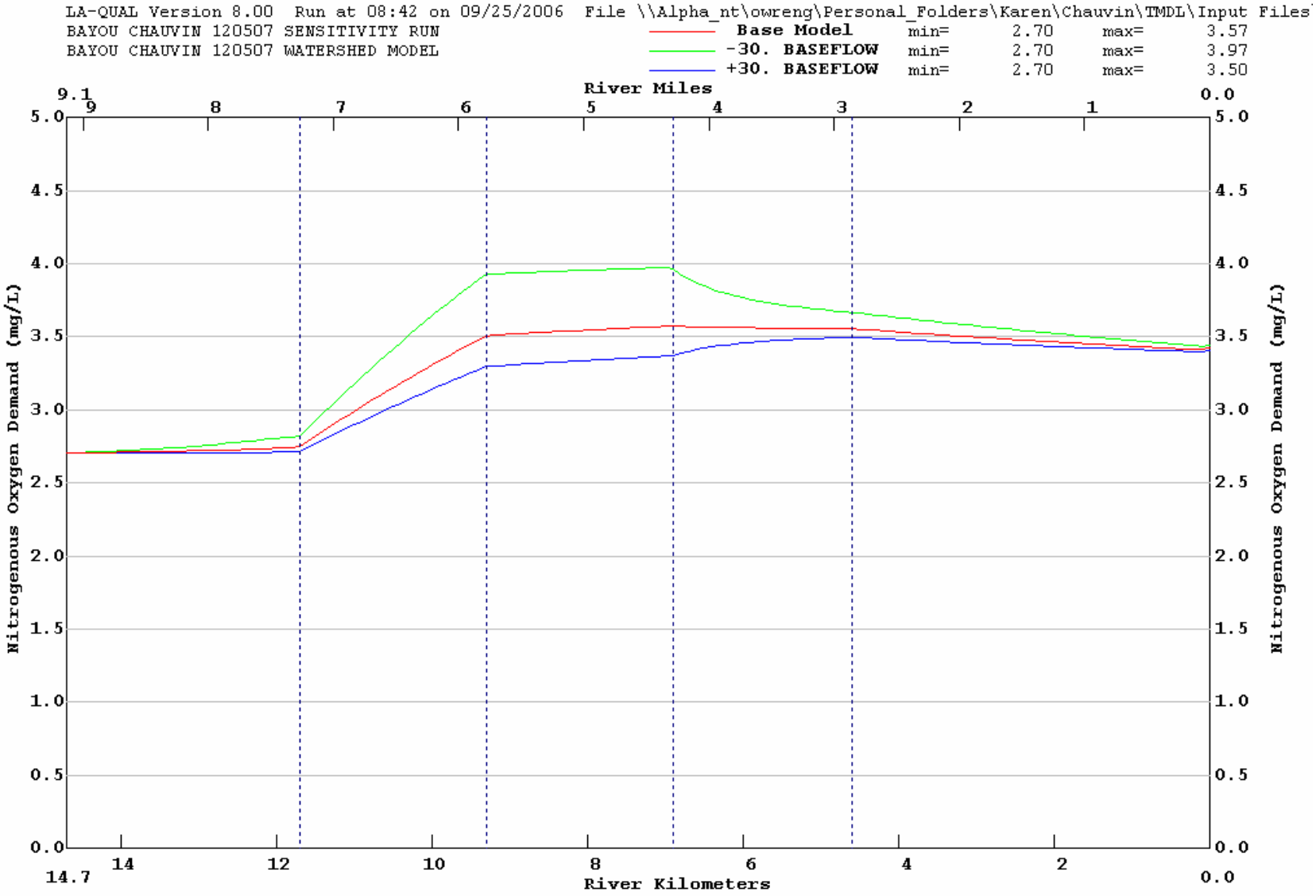
Subsegment 120507

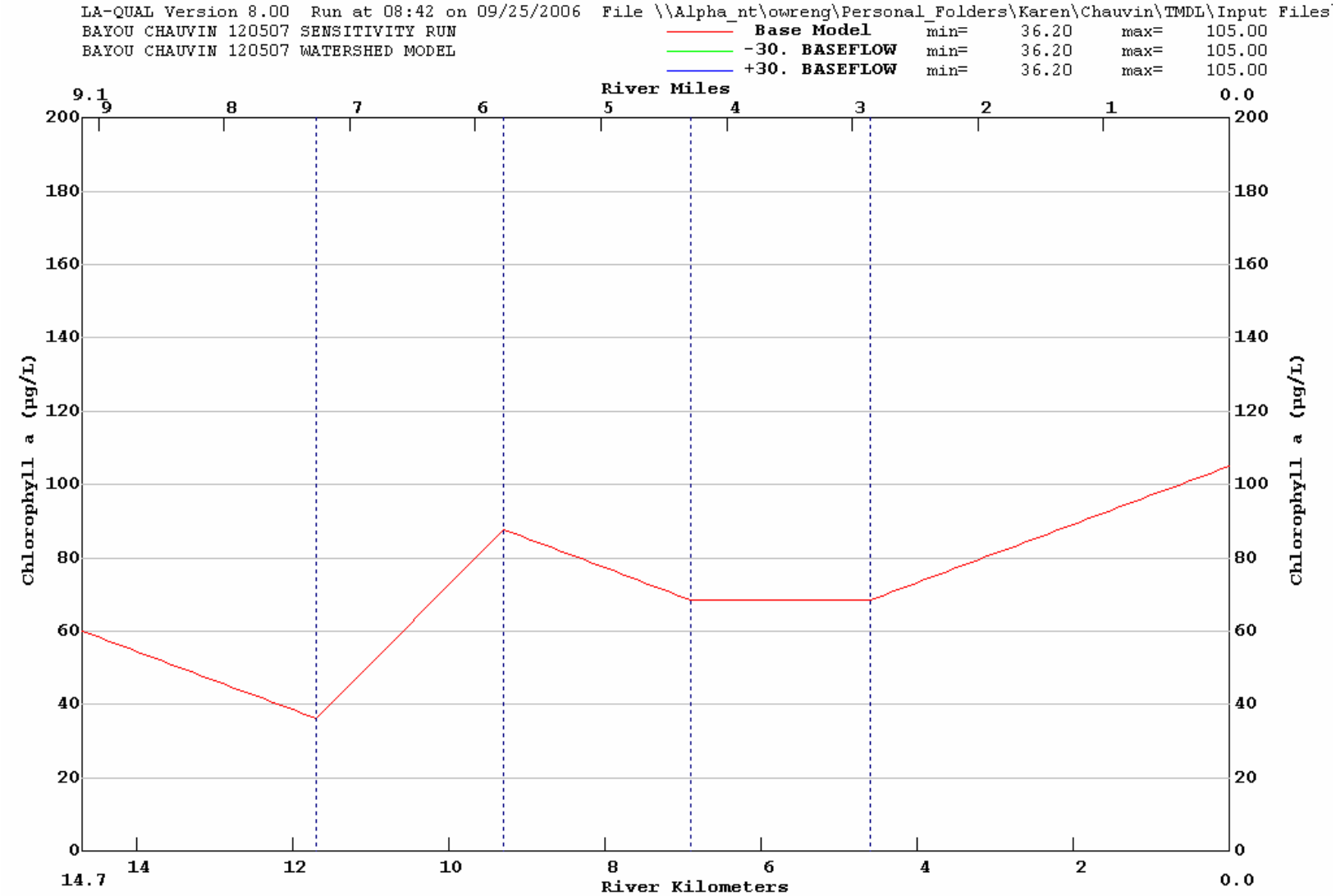
Originated: September 29, 2006

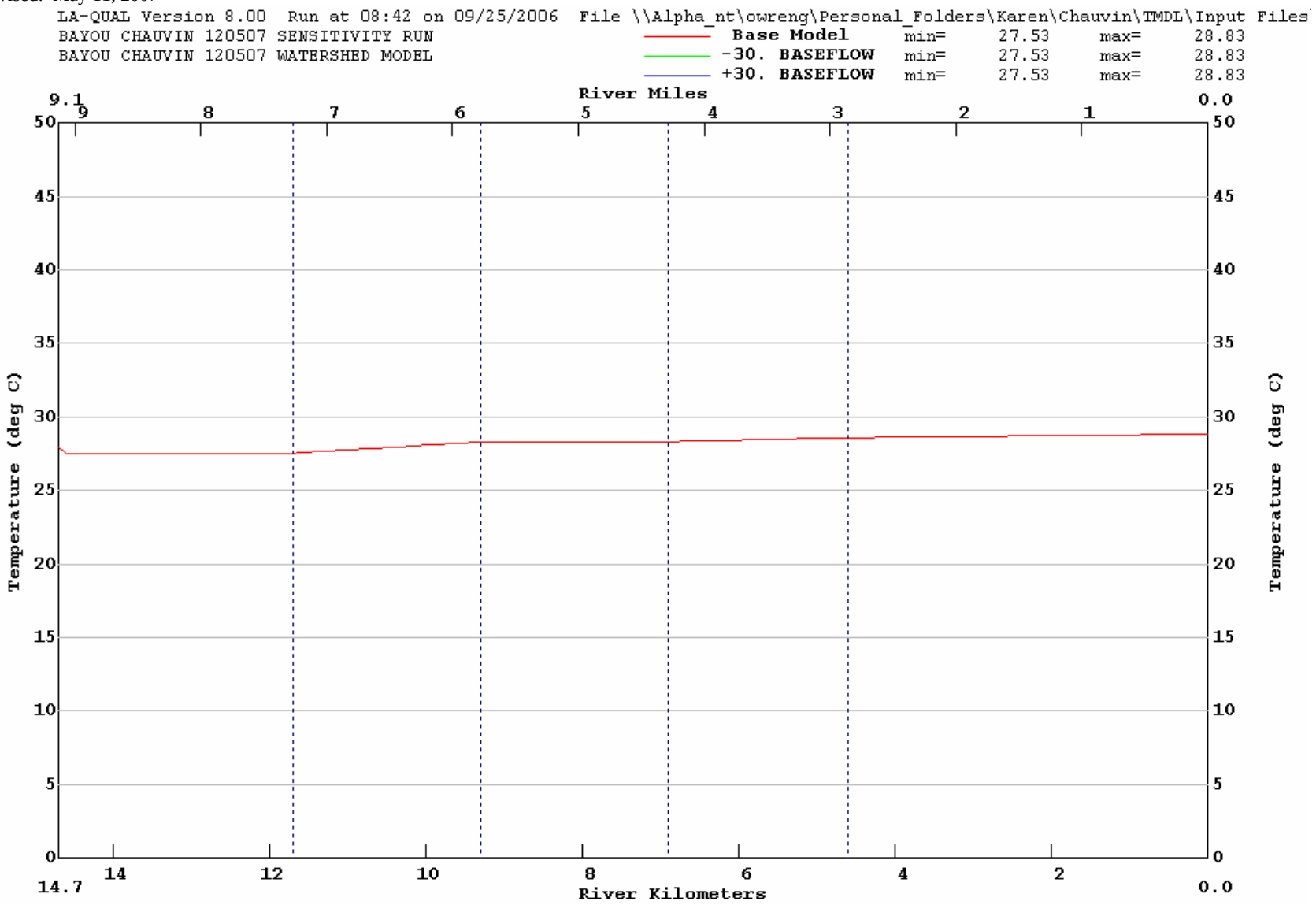
Revised: May 11, 2007

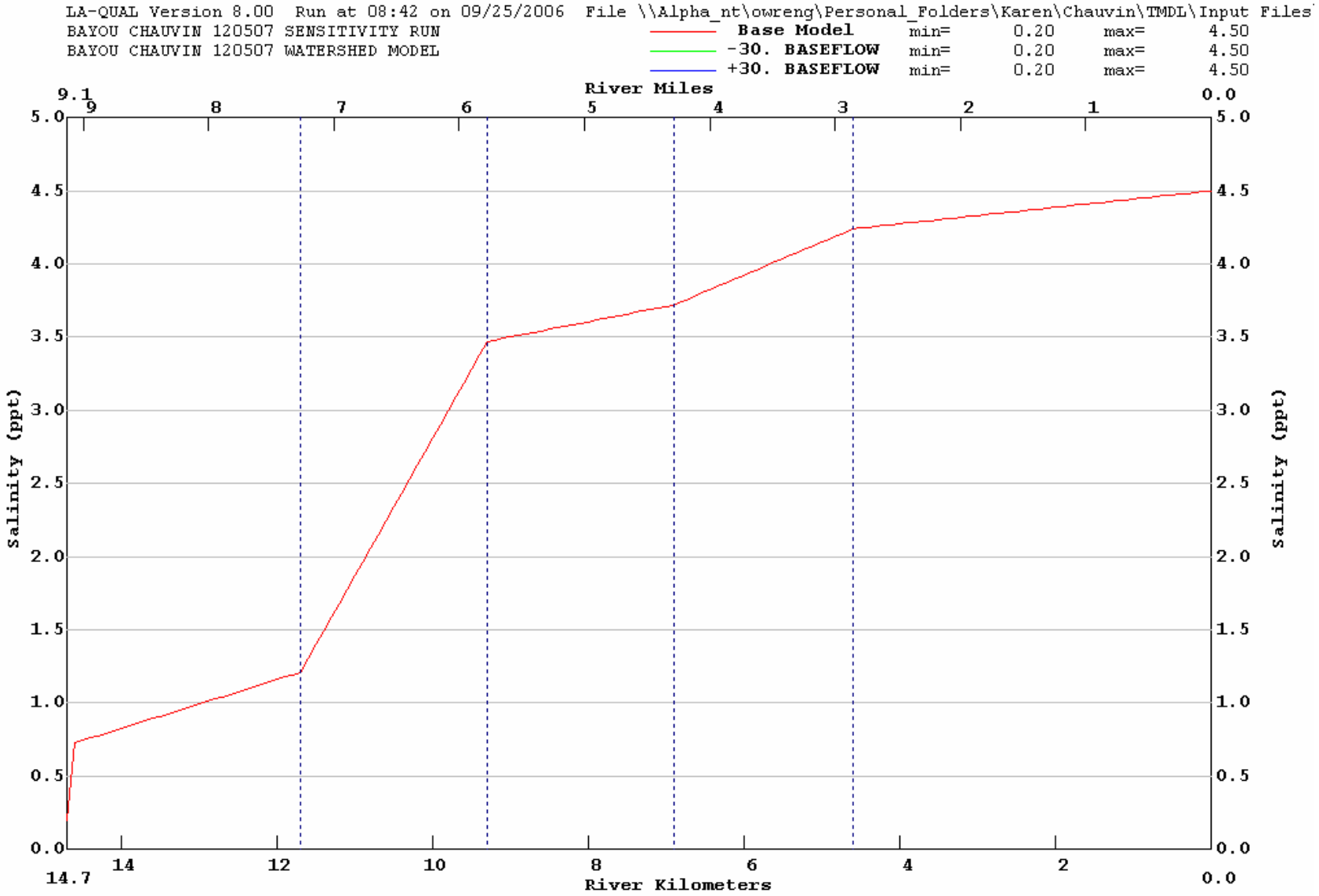


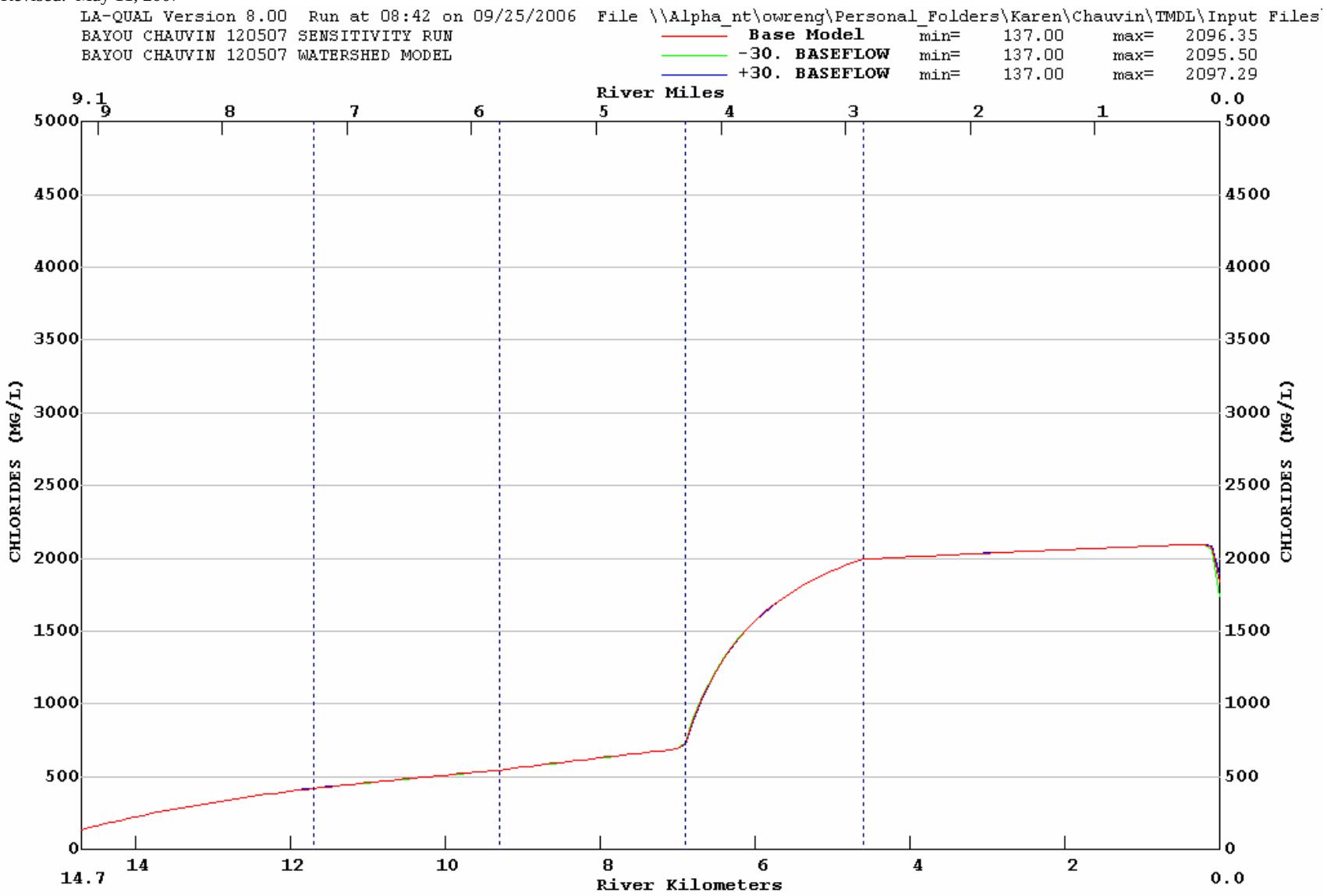

LA-QUAL Version 8.00 Run at 08:42 on 09/25/2006 File \\Alpha_nt\owreng\Personal_Folders\Karen\Chauvin\TMDL\Input Files
BAYOU CHAUVIN 120507 SENSITIVITY RUN
BAYOU CHAUVIN 120507 WATERSHED MODEL
Base Model min= 8.95 max= 16.91
-30. BASEFLOW min= 8.95 max= 19.46
+30. BASEFLOW min= 8.95 max= 15.53
River Miles
9.1
9
8
7
6
5
4
3
2
1
0.0
Effective BOD (mg/L)
20
18
16
14
12
10
8
6
4
2
0
14.7
14
12
10
8
6
4
2
0.0
River Kilometers

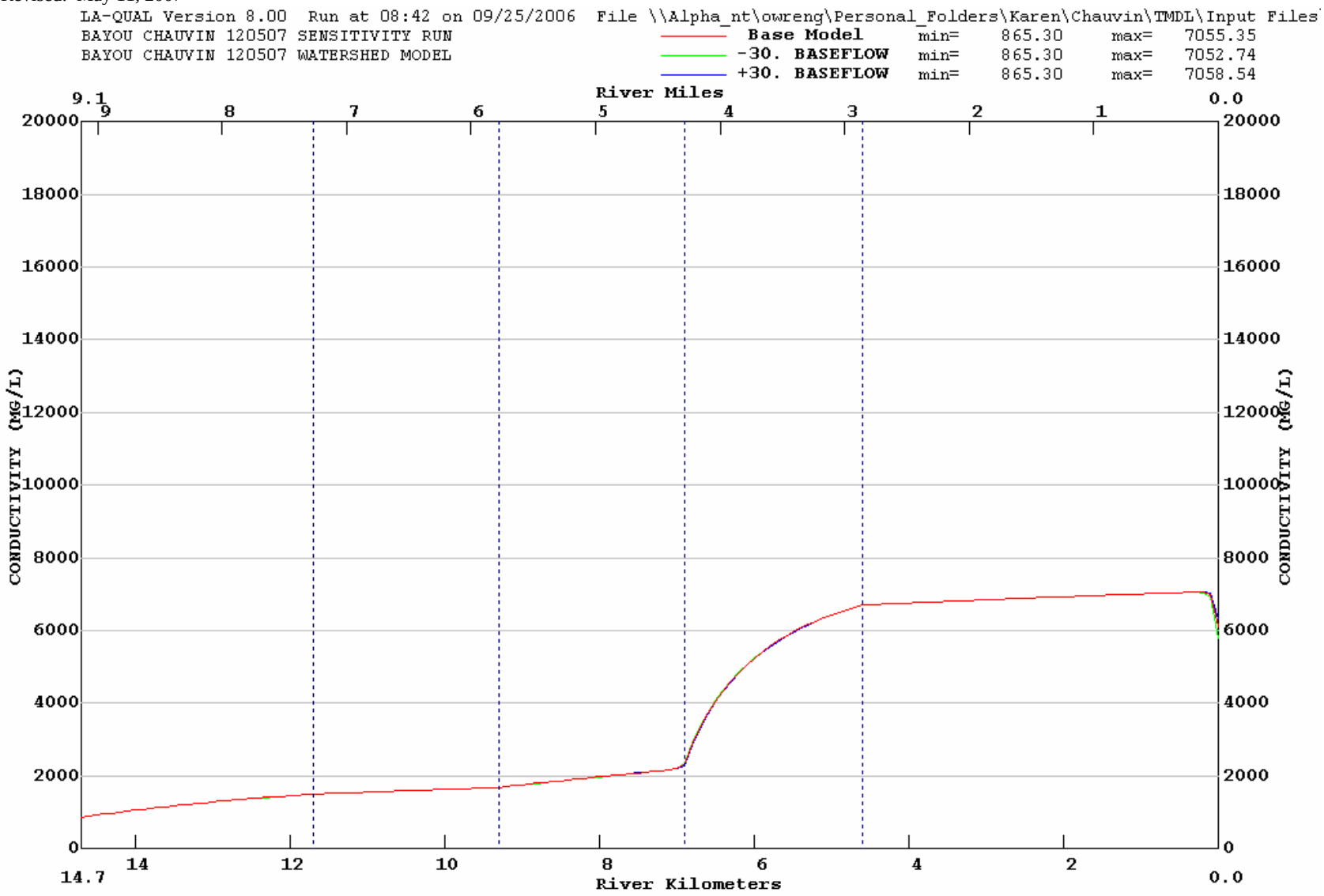

LA-QUAL Version 8.00 Run at 08:42 on 09/25/2006 File \\Alpha_nt\owreng\Personal_Folders\Karen\Chauvin\TMDL\Input Files
BAYOU CHAUVIN 120507 SENSITIVITY RUN
BAYOU CHAUVIN 120507 WATERSHED MODEL
Base Model min= 2.70 max= 3.57
-30. BASEFLOW min= 2.70 max= 3.97
+30. BASEFLOW min= 2.70 max= 3.50
River Miles
9.1
9
8
7
6
5
4
3
2
1
0.0
Nitrogenous Oxygen Demand (mg/L)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
14.7
14
12
10
8
6
4
2
0.0
River Kilometers

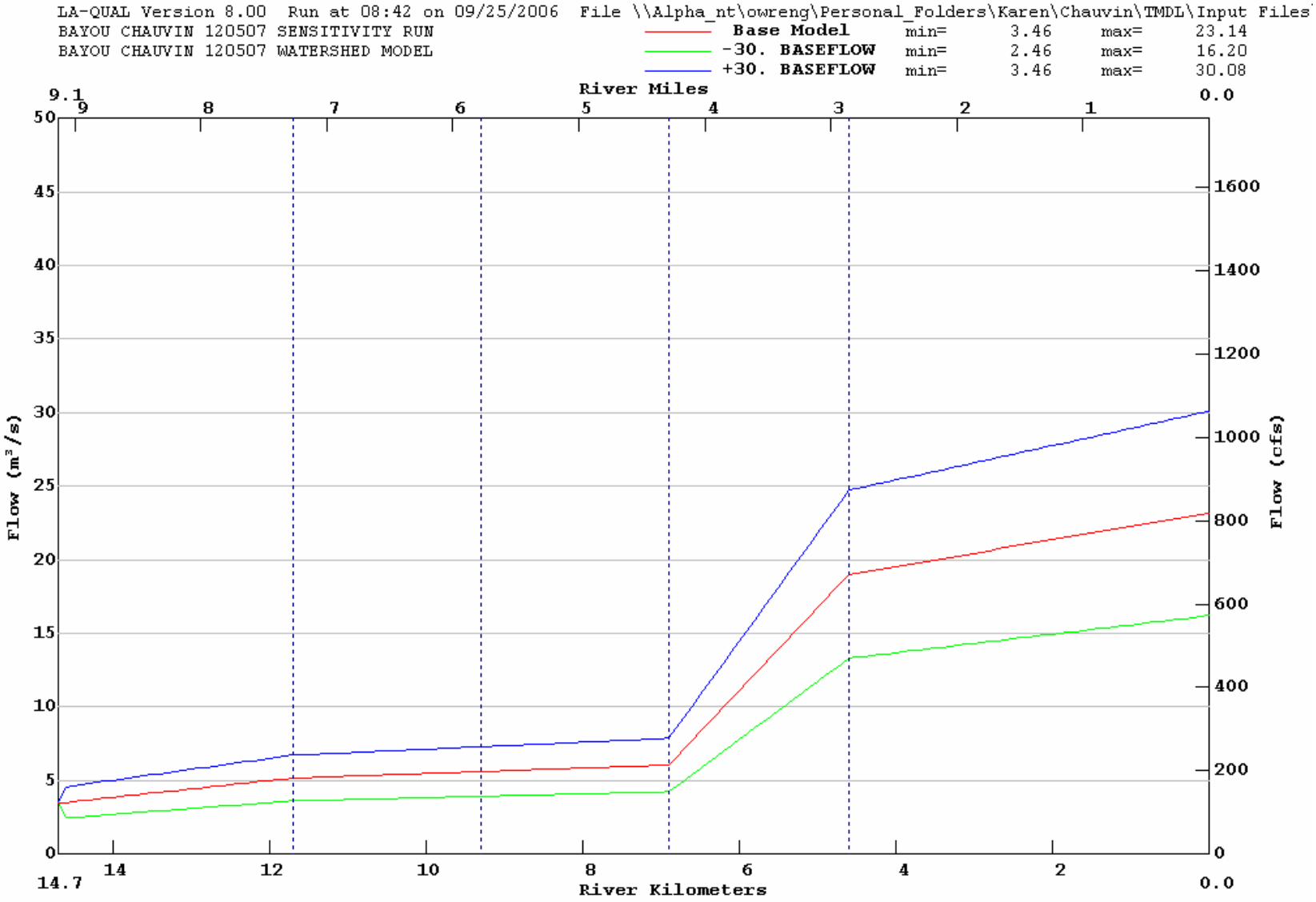

LA-QUAL Version 8.00 Run at 08:42 on 09/25/2006 File \\Alpha_nt\owreng\Personal_Folders\Karen\Chauvin\TMDL\Input Files
BAYOU CHAUVIN 120507 SENSITIVITY RUN
BAYOU CHAUVIN 120507 WATERSHED MODEL
Base Model min= 36.20 max= 105.00
-30. BASEFLOW min= 36.20 max= 105.00
+30. BASEFLOW min= 36.20 max= 105.00
River Miles
9.1
9
8
7
6
5
4
3
2
1
0.0
Chlorophyll a (µg/L)
200
180
160
140
120
100
80
60
40
20
0
14.7
14
12
10
8
6
4
2
0.0
River Kilometers

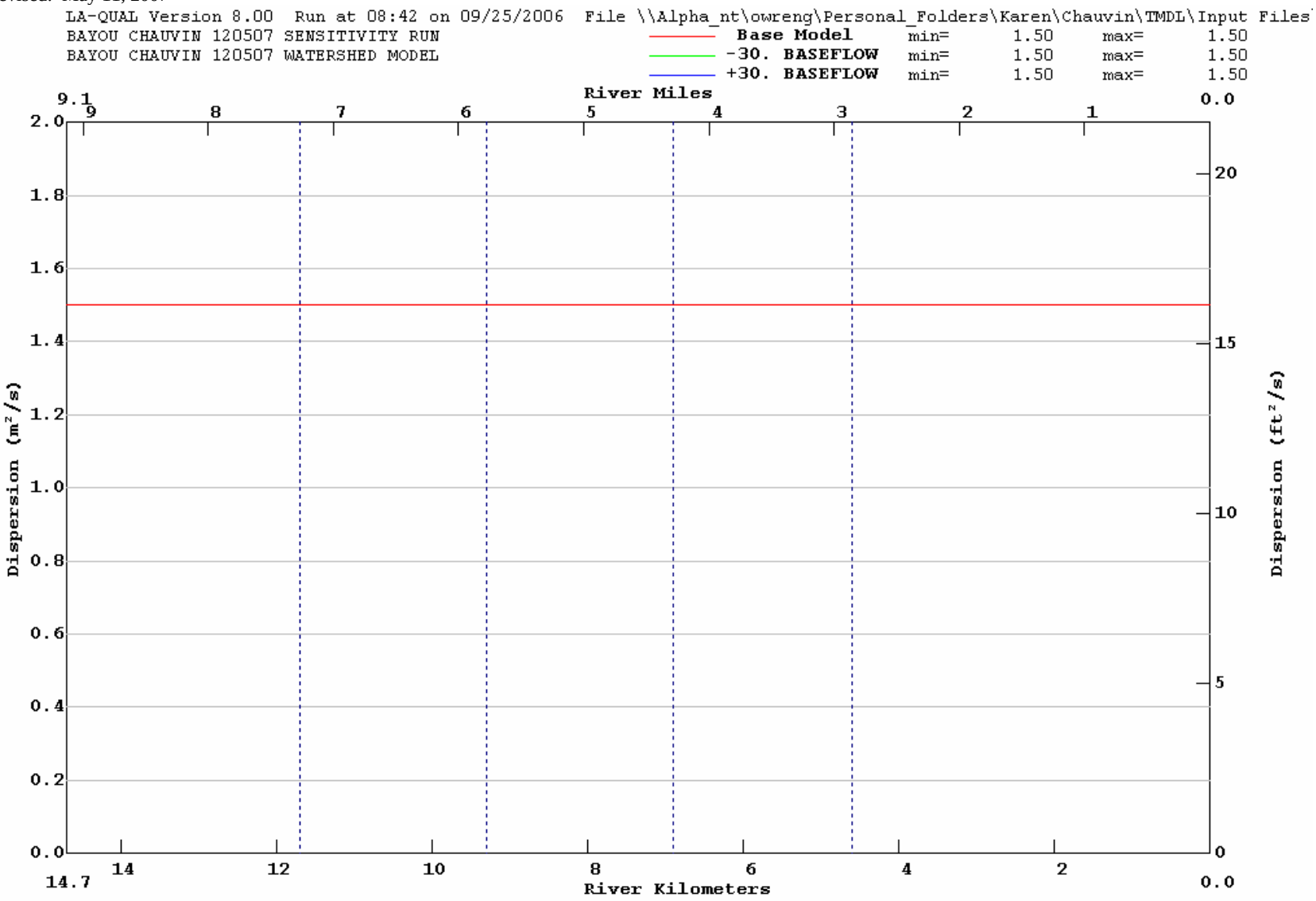

LA-QUAL Version 8.00 Run at 08:42 on 09/25/2006 File \\Alpha_nt\owreng\Personal_Folders\Karen\Chauvin\TMDL\Input Files
BAYOU CHAUVIN 120507 SENSITIVITY RUN
BAYOU CHAUVIN 120507 WATERSHED MODEL
Base Model min= 27.53 max= 28.83
-30. BASEFLOW min= 27.53 max= 28.83
+30. BASEFLOW min= 27.53 max= 28.83
River Miles
9.1
9
8
7
6
5
4
3
2
1
0.0
Temperature (deg C)
50
45
40
35
30
25
20
15
10
5
0
14.7
14
12
10
8
6
4
2
0.0
River Kilometers


LA-QUAL Version 8.00 Run at 08:42 on 09/25/2006 File \\Alpha_nt\owreng\Personal_Folders\Karen\Chauvin\TMDL\Input Files
BAYOU CHAUVIN 120507 SENSITIVITY RUN
BAYOU CHAUVIN 120507 WATERSHED MODEL
Base Model min= 0.20 max= 4.50
-30. BASEFLOW min= 0.20 max= 4.50
+30. BASEFLOW min= 0.20 max= 4.50
River Miles
9.1
9
8
7
6
5
4
3
2
1
0.0
Salinity (ppt)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
14.7
14
12
10
8
6
4
2
0.0
River Kilometers


LA-QUAL Version 8.00 Run at 08:42 on 09/25/2006 File \\Alpha_nt\owreng\Personal_Folders\Karen\Chauvin\TMDL\Input Files
BAYOU CHAUVIN 120507 SENSITIVITY RUN
BAYOU CHAUVIN 120507 WATERSHED MODEL
Base Model min= 137.00 max= 2096.35
-30. BASEFLOW min= 137.00 max= 2095.50
+30. BASEFLOW min= 137.00 max= 2097.29
River Miles
9.1
9
8
7
6
5
4
3
2
1
0.0
CHLORIDES (MG/L)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
14.7
14
12
10
8
6
4
2
0.0
River Kilometers


LA-QUAL Version 8.00 Run at 08:42 on 09/25/2006 File \\Alpha_nt\owreng\Personal_Folders\Karen\Chauvin\TMDL\Input Files
BAYOU CHAUVIN 120507 SENSITIVITY RUN
BAYOU CHAUVIN 120507 WATERSHED MODEL
Base Model min= 865.30 max= 7055.35
-30. BASEFLOW min= 865.30 max= 7052.74
+30. BASEFLOW min= 865.30 max= 7058.54
River Miles
9.1
9
8
7
6
5
4
3
2
1
0.0
CONDUCTIVITY (MG/L)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
14.7
14
12
10
8
6
4
2
0.0
River Kilometers

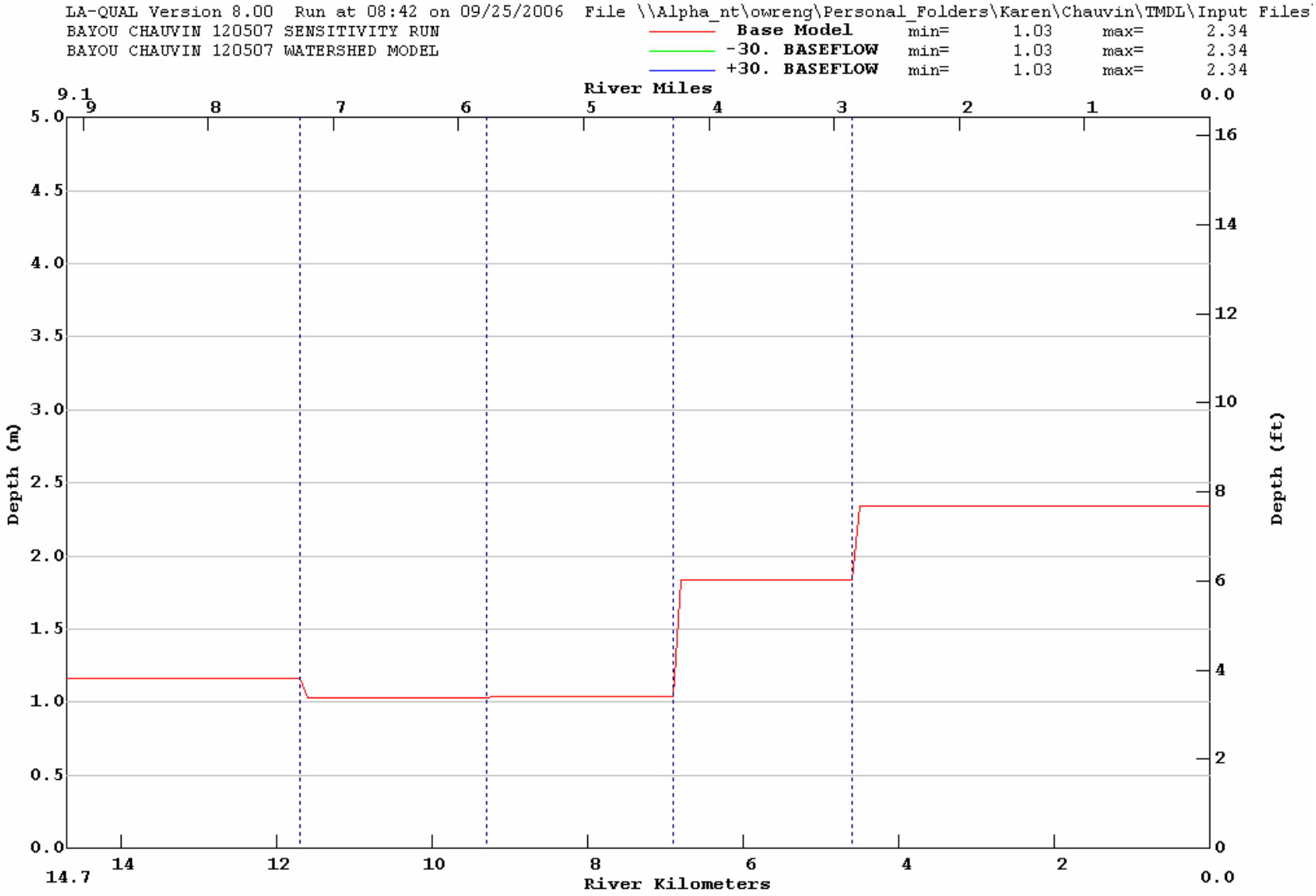

LA-QUAL Version 8.00 Run at 08:42 on 09/25/2006 File \\Alpha_nt\owreng\Personal_Folders\Karen\Chauvin\TMDL\Input Files
BAYOU CHAUVIN 120507 SENSITIVITY RUN
BAYOU CHAUVIN 120507 WATERSHED MODEL
Base Model min= 3.46 max= 23.14
-30. BASEFLOW min= 2.46 max= 16.20
+30. BASEFLOW min= 3.46 max= 30.08
River Miles
9.1
9
8
7
6
5
4
3
2
1
0.0
Flow (m³/s)
Flow (cfs)
River Kilometers
14.7
14
12
10
8
6
4
2
0.0


LA-QUAL Version 8.00 Run at 08:42 on 09/25/2006 File \\Alpha_nt\owreng\Personal_Folders\Karen\Chauvin\TMDL\Input Files
BAYOU CHAUVIN 120507 SENSITIVITY RUN
BAYOU CHAUVIN 120507 WATERSHED MODEL
Base Model min= 1.50 max= 1.50
-30. BASEFLOW min= 1.50 max= 1.50
+30. BASEFLOW min= 1.50 max= 1.50
River Miles
9.1
9
8
7
6
5
4
3
2
1
0.0
Dispersion (m²/s)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Dispersion (ft²/s)
20
15
10
5
0
14.7
14
12
10
8
6
4
2
0.0
River Kilometers

Subsegment 120507

Originated: September 29, 2006

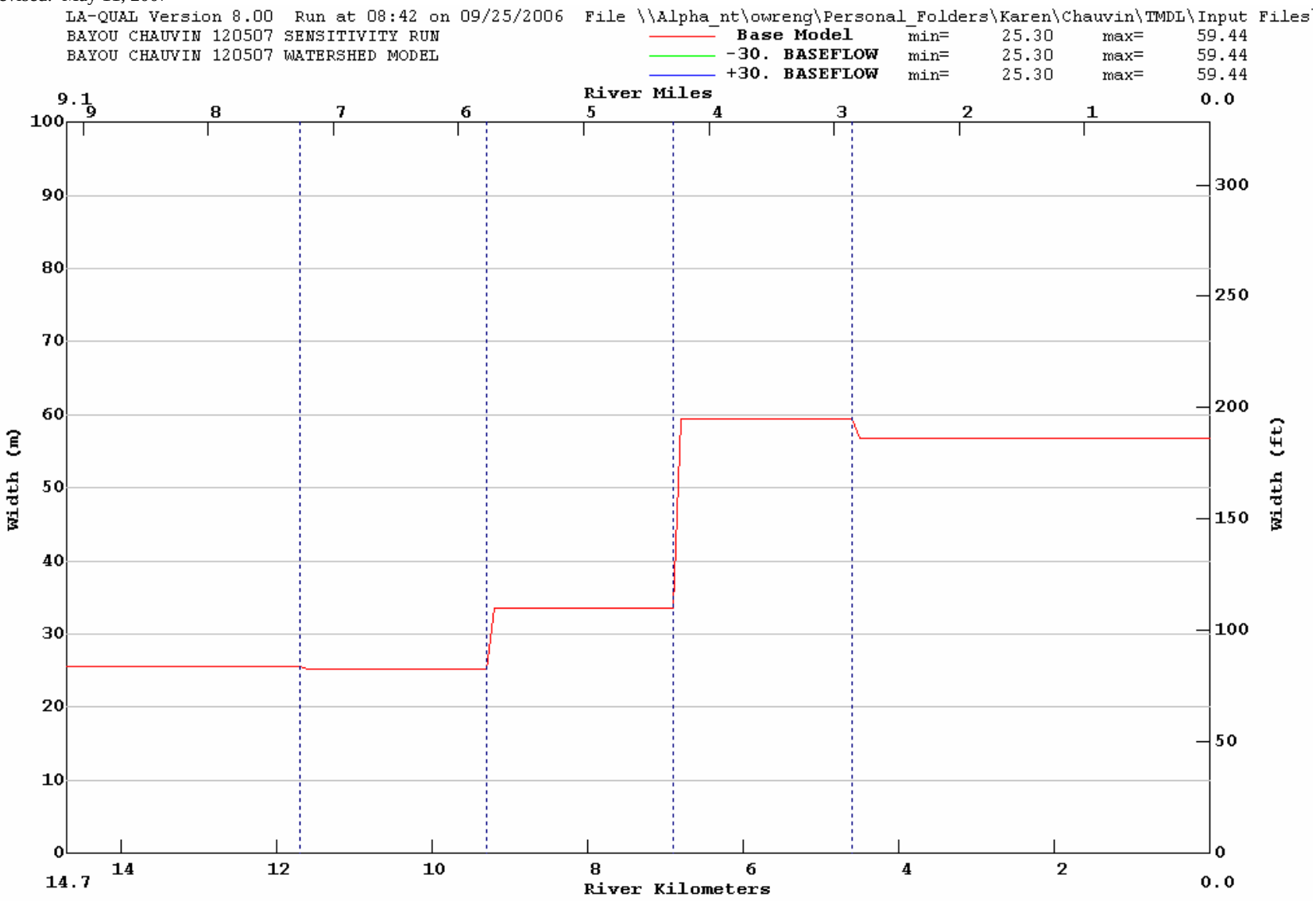
Revised: May 11, 2007

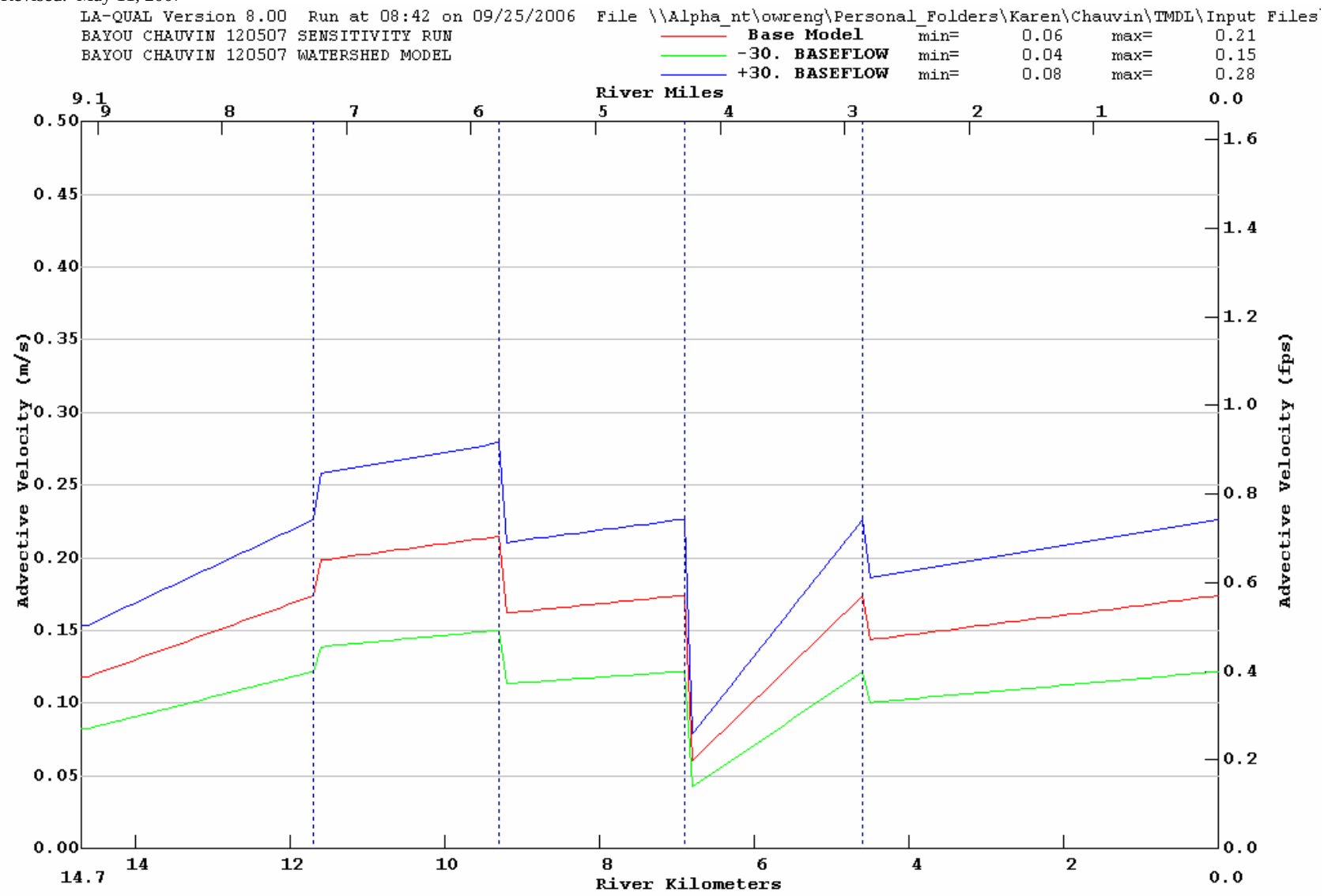


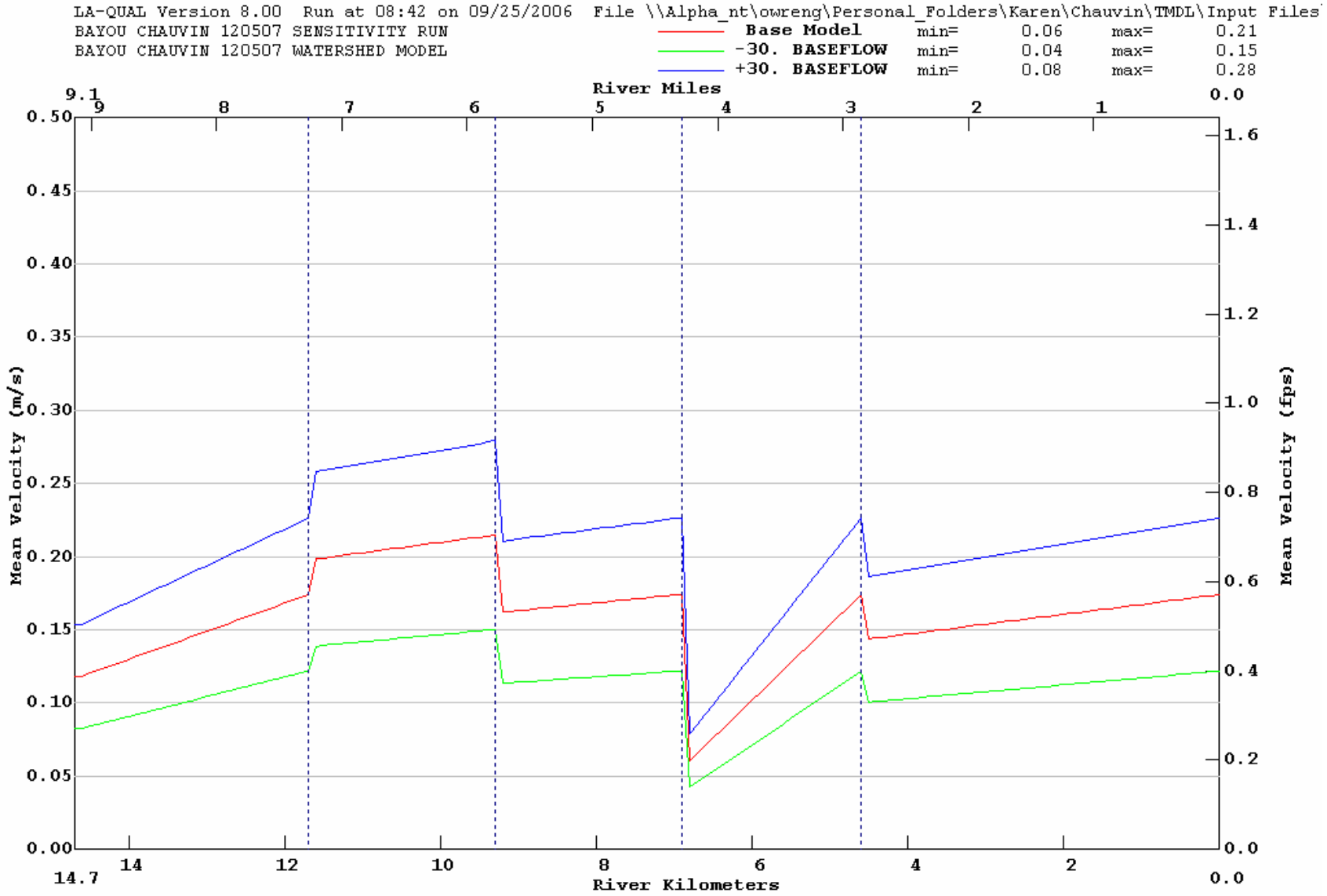
Subsegment 120507

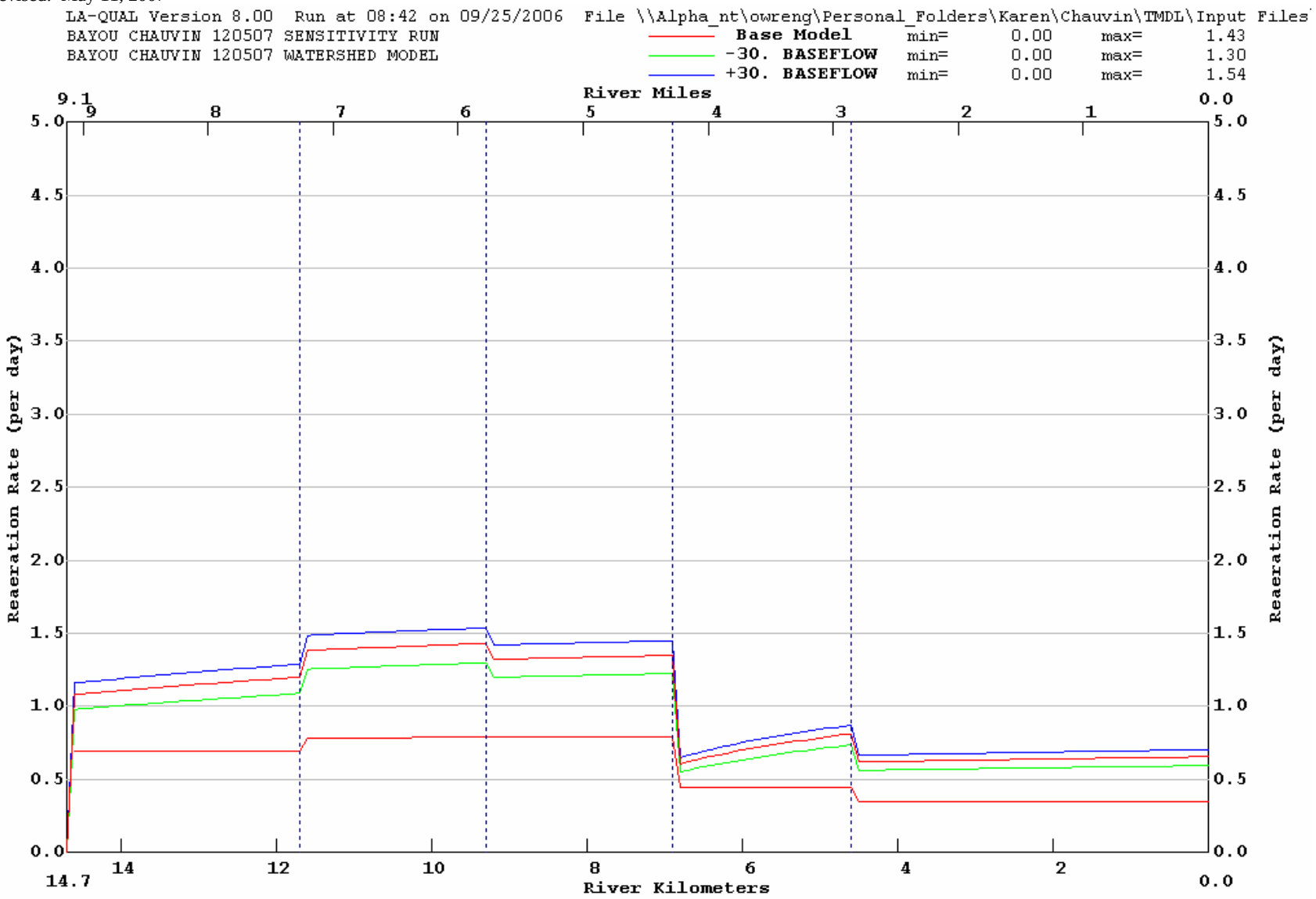
Originated: September 29, 2006

Revised: May 11, 2007




LA-QUAL Version 8.00 Run at 08:42 on 09/25/2006 File \\Alpha_nt\owreng\Personal_Folders\Karen\Chauvin\TMDL\Input Files
BAYOU CHAUVIN 120507 SENSITIVITY RUN
BAYOU CHAUVIN 120507 WATERSHED MODEL
Base Model min= 0.06 max= 0.21
-30. BASEFLOW min= 0.04 max= 0.15
+30. BASEFLOW min= 0.08 max= 0.28
River Miles
9.1
9
8
7
6
5
4
3
2
1
0.0
Advective Velocity (m/s)
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Advective Velocity (fps)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
14.7
14
12
10
8
6
4
2
0.0
River Kilometers


LA-QUAL Version 8.00 Run at 08:42 on 09/25/2006 File \\Alpha_nt\owreng\Personal_Folders\Karen\Chauvin\TMDL\Input Files
BAYOU CHAUVIN 120507 SENSITIVITY RUN
BAYOU CHAUVIN 120507 WATERSHED MODEL
Base Model min= 0.06 max= 0.21
-30. BASEFLOW min= 0.04 max= 0.15
+30. BASEFLOW min= 0.08 max= 0.28
River Miles
9.1
9
8
7
6
5
4
3
2
1
0.0
Mean Velocity (m/s)
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Mean Velocity (fps)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
14.7
14
12
10
8
6
4
2
0.0
River Kilometers

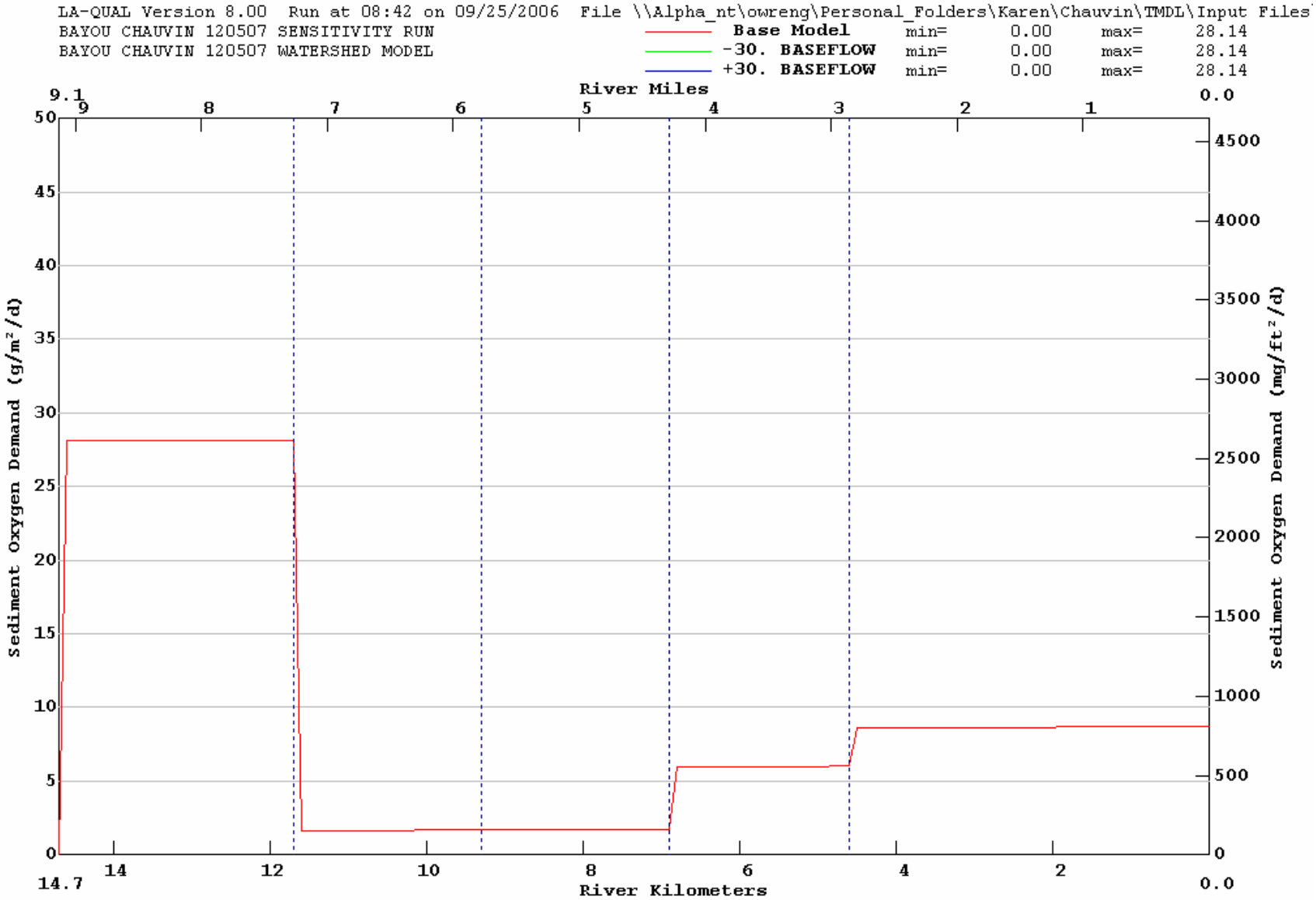

LA-QUAL Version 8.00 Run at 08:42 on 09/25/2006 File \\Alpha_nt\owreng\Personal_Folders\Karen\Chauvin\TMDL\Input Files
BAYOU CHAUVIN 120507 SENSITIVITY RUN
BAYOU CHAUVIN 120507 WATERSHED MODEL
Base Model min= 0.00 max= 1.43
-30. BASEFLOW min= 0.00 max= 1.30
+30. BASEFLOW min= 0.00 max= 1.54
River Miles
9.1
9
8
7
6
5
4
3
2
1
0.0
Reaeration Rate (per day)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
14.7
14
12
10
8
6
4
2
0.0
River Kilometers

Bayou Chauvin Watershed TMDL

Subsegment 120507

Originated: September 29, 2006

Revised: May 11, 2007



# Appendix I2 – Sensitivity Output Data Set

SENSITIVITY ANALYSIS SUMMARY

BAYOU CHAUVIN 120507 WATERSHED MODEL
BAYOU CHAUVIN 120507 SENSITIVITY RUN

Plot 1 Base Model Minimum DO = 1.36

| Parameter | %Param Chg | Min D.O. | %D.O. Chg | %Param Chg | Min D.O. | %D.O. Chg |
|---|---|---|---|---|---|---|
| Stream Baseflow | 30. | 2.07 | 52.4 | -30. | 0.16 | -88.1 |
| Initial Chorophyll a | 30. | 1.52 | 12.2 | -30. | 1.19 | -12.2 |
| Stream Velocity | 30. | 2.06 | 51.9 | -30. | 0.17 | -87.4 |
| Initial Temperature | 2. | 0.84 | -38.3 | -2. | 1.83 | 34.9 |
| CBOD Aerobic Decay Rate | 30. | 1.31 | -3.8 | -30. | 1.41 | 3.8 |
| CBOD Settling Rate | 30. | 1.36 | 0.2 | -30. | 1.35 | -0.2 |
| NBOD Decay Rate | 30. | 1.34 | -1.2 | -30. | 1.37 | 1.2 |
| NBOD Settling Rate | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |
| Benthal Demand | 30. | 0.79 | -42.0 | -30. | 2.59 | 90.9 |
| Stream Dispersion | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |
| Stream Reaeration | 30. | 1.64 | 20.8 | -30. | 1.06 | -22.2 |
| Headwater Flow | 30. | 1.95 | 44.1 | -30. | 0.53 | -60.9 |
| Headwater DO | 30. | 2.14 | 57.5 | -30. | 0.61 | -54.8 |
| Headwater CBOD | 30. | 1.32 | -2.6 | -30. | 1.39 | 2.6 |
| Headwater NBOD | 30. | 1.34 | -0.9 | -30. | 1.37 | 1.0 |
| Stream Depth | 30. | 1.42 | 5.1 | -30. | 1.31 | -3.7 |
| Wasteload Flow | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |
| Wasteload Temperature | 2. | 1.36 | 0.0 | -2. | 1.36 | 0.0 |
| Wasteload DO | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |
| Wasteload CBOD | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |
| Wasteload NBOD | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |
| Lower Boundary Temperature | 2. | 1.36 | 0.0 | -2. | 1.36 | 0.0 |
| Lower Boundary DO | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |
| Lower Boundary CBOD | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |
| Lower Boundary NBOD | 30. | 1.36 | 0.0 | -30. | 1.36 | 0.0 |

## BAYOU CHAUVIN 120507 Sensitivity Analysis Input Data Set

```
CNTROL01     BAYOU CHAUVIN 120507 WATERSHED MODEL
CNTROL02     BAYOU CHAUVIN 120507 SENSITIVITY RUN
CNTROL04 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CHLORIDES                  IN MG/L
MODOPT04 YES CONSERVATIVE MATERIAL II = CONDUCTIVITY               IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07  NO BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT10  NO PHOSPHORUS
MODOPT11  NO CHLOROPHYLL A
MODOPT12  NO MACROPHYTES
MODOPT13  NO COLIFORM
ENDATA02
PROGRAM  KL MINIMUM                        =     0.7
PROGRAM  INHIBITION CONTROL VALUE          =     3.
PROGRAM  K2 MAXIMUM                        =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD      =     2.
PROGRAM  SETTLING RATE UNITS               =     2.
PROGRAM  TIDE HEIGHT                       =     0.09
PROGRAM  SOD MAXIMUM RATE                  =     20.0
ENDATA03
!Temperature Correction Constants
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ******** ********
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------**********----------
!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
```

```
REACH ID    1  CH   BC01 - BC03                        14.7       11.7      0.1
REACH ID    2  CH   BC03 - BC05                        11.7        9.3      0.1
REACH ID    3  CH   BC05 - BC06                         9.3        6.9      0.1
REACH ID    4  CH   BC06 - BC07                         6.9        4.6      0.1
REACH ID    5  CH   BC07 - BC09                         4.6        0.0      0.1
ENDATA08
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------*******
!                a      b       c     d      e        f
!               WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#   COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
HYDR-1      1   0.00   0.10   25.512  0.00   0.10   1.164
HYDR-1      2   0.00   0.10   25.298  0.00   0.10   1.033
HYDR-1      3   0.00   0.10   33.528  0.00   0.10   1.036
HYDR-1      4   0.00   0.10   59.436  0.00   0.10   1.838
HYDR-1      5   0.00   0.10   56.726  0.00   0.10   2.344
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
HYDR-2      1   1.0   1.500       0.8333    0.0       1.0
HYDR-2      2   1.0   1.500       0.8333    0.0       1.0
HYDR-2      3   1.0   1.500       0.8333    0.0       1.0
HYDR-2      4   1.0   1.500       0.8333    0.0       1.0
HYDR-2      5   1.0   1.500       0.8333    0.0       1.0
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO     NH3 N  NIT NIT  PHOS   CHL A   MACROPHYTES
INITIAL     1    27.53  0.71     3.33                             60.00
INITIAL     2    27.54  1.21     1.23                             36.20
INITIAL     3    28.30  3.47     3.94                             87.70
INITIAL     4    28.33  3.72     4.15                             68.50
INITIAL     5    28.59  4.24     4.75                             68.50
```

```
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----********----- ******-------*******-------*******-------*******-------***
!               REA                            CBOD   CBOD
!          R#   EQ      K2             SOD    DECAY  SETT
COEF-1      1   11                    17.50   0.0780  0.40
COEF-1      2   11                     1.00   0.0699  0.40
COEF-1      3   11                     1.00   0.0762  0.40
COEF-1      4   11                     3.50   0.0671  0.40
COEF-1      5   11                     5.00   0.0661  0.40
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
COEF-2      1  0.1081   0.05
COEF-2      2  0.1104   0.05
COEF-2      3  0.1127   0.05
COEF-2      4  0.0875   0.05
COEF-2      5  0.0878   0.05
ENDATA13
ENDATA14
!Coliform and Nonconservative Cofficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
INCR-1     1              1.7059  27.53      0.7      1000    2800
INCR-1     2              0.4437  27.54      1.2      2000    3800
INCR-1     3              0.4437  28.30      3.5      2600    8800
INCR-1     4             12.9614  28.33      3.7      2600    8800
INCR-1     5              4.1272  28.59      4.2      2600    8800
```

```
ENDATA16
!Incremental Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------********---------********---------********
!          R#      DO     CBOD      NBOD    NH3 N   NIT NIT    BOD 2
INCR-2     1      3.33   9.9965    2.5147
INCR-2     2      3.33  13.9415    2.8557
INCR-2     3      3.94  16.7325    3.5311
INCR-2     4      4.15  15.5489    3.5719
INCR-2     5      4.75  15.1520    3.5286
ENDATA17
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------********---------********
!          R#   PHOSPH    CHL A   COLIFORM NONCONSERVATIVE
INCR-3     1              60.0
INCR-3     2              36.2
INCR-3     3              87.7
INCR-3     4              68.5
INCR-3     5              68.5
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------********---------********---------********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1    1200     90.00
NONPOINT    2    3200    400.00
NONPOINT    3    1000    100.00
NONPOINT    4    1500    150.00
NONPOINT    5    1500    150.00
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   CHLORIDE   COND
HDWTR-1     1  HEADWATER - BC01           3.4604  27.93  0.20    137.0    865.3
ENDATA20
```

```
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********---------********
!          E#      DO      BOD 1    NBOD    NH3 N    NIT NIT  BOD 2
HDWTR-2     1      5.24   8.9473   2.7039
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR   CHL A   COLIFORM  NONCONSERVATIVE
HDWTR-3     1
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  --------------------********---------********---------********
!          E#     NAME               FLOW      TEMP   SALINITY CHLORIDE  COND
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********-----********---------*****---------********
!          E#       DO    BOD 1         NBOD    NH3 N          NIT NIT  BOD 2
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
ENDATA26
LOWER BC TEMPERATURE                        =  28.83
LOWER BC SALINITY                           =   4.50
LOWER BC CONSERVATIVE MATERIAL I            =2274.0
LOWER BC CONSERVATIVE MATERIAL II           =7601.0
LOWER BC DISSOLVED OXYGEN                   =   5.14
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =  14.755
LOWER BC CHLOROPHYLL A                      = 105.0
LOWER BC NBOD                               =   3.4853
```

```
ENDATA27
!Dam Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ******************** ** ******** ******** ********
ENDATA28
SENSITIV BASEFLOW   30    -30
SENSITIV CHLOR A    30    -30
SENSITIV VELOCITY   30    -30
SENSITIV TEMPERAT    2     -2
SENSITIV BOD DECA   30    -30
SENSITIV BOD SETT   30    -30
SENSITIV NBOD DEC   30    -30
SENSITIV NBOD SET   30    -30
SENSITIV BENTHAL    30    -30
SENSITIV DISPERSI   30    -30
SENSITIV REAERATI   30    -30
SENSITIV HDW FLOW   30    -30
SENSITIV HDW DO     30    -30
SENSITIV HDW BOD    30    -30
SENSITIV HDW NBOD   30    -30
SENSITIV DEPTH      30    -30
SENSITIV WSL FLOW   30    -30
SENSITIV WSL TEMP    2     -2
SENSITIV WSL DO     30    -30
SENSITIV WSL BOD    30    -30
SENSITIV WSL NBOD   30    -30
SENSITIV LBC TEMP    2     -2
SENSITIV LBC DO     30    -30
SENSITIV LBC BOD    30    -30
SENSITIV LBC NBOD   30    -30
ENDATA29
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =  05                        INCREMENT = 0.1
PLOT RCH  1  2  3  4  5
ENDATA30
ENDATA31
```

# BAYOU CHAUVIN 120507 Sensitivity Analysis Output Dataset

```
LA-QUAL Version 8.00
Louisiana Department of Environmental Quality

Input file is O:\Personal_Folders\Karen\Chauvin\TMDL\Input Files\Chauvin Sensitivity.txt
Output produced at 10:47 on 09/13/2006

$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$

CARD TYPE       CONTROL TITLES

TITLE01         BAYOU CHAUVIN 120507 WATERSHED MODEL
TITLE02         BAYOU CHAUVIN 120507 SENSITIVITY RUN
CNTROL04  YES   METRIC UNITS
ENDATA01

$$$ DATA TYPE 2 (MODEL OPTIONS) $$$

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03  YES   CONSERVATIVE MATERIAL  I = CHLORIDES                 IN MG/L
MODOPT04  YES   CONSERVATIVE MATERIAL II = CONDUCTIVITY              IN MG/L
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07   NO   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08  YES   NBOD OXYGEN DEMAND
MODOPT10   NO   PHOSPHORUS
MODOPT11   NO   CHLOROPHYLL A
MODOPT12   NO   MACROPHYTES
MODOPT13   NO   COLIFORM
ENDATA02

$$$ DATA TYPE 3 (PROGRAM CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         KL MINIMUM                        =         0.70000 meters/day
PROGRAM         INHIBITION CONTROL VALUE          =         3.00000 (inhibit all rates but SOD)
PROGRAM         K2 MAXIMUM                        =        25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD      =         2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS               =         2.00000 (values entered as per day)
PROGRAM         TIDE HEIGHT                       =         0.09000 meters
PROGRAM         SOD MAXIMUM RATE                  =        20.00000 gm/sq m/day
ENDATA03

$$$ DATA TYPE 4 (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04

$$$ CONSTANTS TYPE 5 (TEMPERATURE DATA) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE
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ENDATA05

$$$ DATA TYPE 6 (ALGAE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA06

$$$ DATA TYPE 7 (MACROPHYTE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                                      BEGIN        END    ELEM    REACH    ELEMS   BEGIN    END
CARD TYPE  REACH  ID  NAME                            REACH      REACH   LENGTH   LENGTH   PER RCH   ELEM   ELEM
                                                         km         km       km       km              NUM    NUM

REACH ID      1   CH    BC01 - BC03                   14.70  TO   11.70   0.1000     3.00      30       1     30
REACH ID      2   CH    BC03 - BC05                   11.70  TO    9.30   0.1000     2.40      24      31     54
REACH ID      3   CH    BC05 - BC06                    9.30  TO    6.90   0.1000     2.40      24      55     78
REACH ID      4   CH    BC06 - BC07                    6.90  TO    4.60   0.1000     2.30      23      79    101
REACH ID      5   CH    BC07 - BC09                    4.60  TO    0.00   0.1000     4.60      46     102    147
ENDATA08

$$$ DATA TYPE 9 (ADVECTIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID       WIDTH       WIDTH       WIDTH       DEPTH       DEPTH       DEPTH      SLOPE    MANNINGS
                            "A"         "B"         "C"         "D"         "E"         "F"                  "N"

HYDR-1        1   CH       0.000       0.100      25.512       0.000       0.100       1.164     0.00000   0.000
HYDR-1        2   CH       0.000       0.100      25.298       0.000       0.100       1.033     0.00000   0.000
HYDR-1        3   CH       0.000       0.100      33.528       0.000       0.100       1.036     0.00000   0.000
HYDR-1        4   CH       0.000       0.100      59.436       0.000       0.100       1.838     0.00000   0.000
HYDR-1        5   CH       0.000       0.100      56.726       0.000       0.100       2.344     0.00000   0.000
ENDATA09

$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID     TIDAL     DISPERSION     DISPERSION     DISPERSION     DISPERSION
                        RANGE        "A"            "B"            "C"            "D"

HYDR          1   CH      1.00        1.500          0.833          0.000          1.000
HYDR          2   CH      1.00        1.500          0.833          0.000          1.000
HYDR          3   CH      1.00        1.500          0.833          0.000          1.000
HYDR          4   CH      1.00        1.500          0.833          0.000          1.000
HYDR          5   CH      1.00        1.500          0.833          0.000          1.000
ENDATA10

$$$ DATA TYPE 11 (INITIAL CONDITIONS) $$$

CARD TYPE      REACH  ID        TEMP     SALIN        DO       NH3     NO3+2      PHOS     CHL A     MACRO

INITIAL            1   CH       27.53      0.71      3.33      0.00      0.00      0.00     60.00      0.00
INITIAL            2   CH       27.54      1.21      1.23      0.00      0.00      0.00     36.20      0.00
INITIAL            3   CH       28.30      3.47      3.94      0.00      0.00      0.00     87.70      0.00
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INITIAL           4   CH       28.33      3.72      4.15      0.00      0.00      0.00     68.50      0.00
INITIAL           5   CH       28.59      4.24      4.75      0.00      0.00      0.00     68.50      0.00
ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                                                                  BOD     ANAER                          BOD2     ANAER
CARD     RCH  RCH  K2                    K2        K2        K2    BKGRND       BOD       BOD     CONV      BOD2      BOD2      BOD2     CONV      BOD2
TYPE     NUM   ID  OPT                   "A"       "B"       "C"      SOD     DECAY      SETT   TO SOD     DECAY     DECAY      SETT   TO SOD     DECAY
                                                                   g/m²/d   per day       m/d              per day   per day       m/d              per day

COEF-1     1   CH  11 TEXAS            0.000     0.000     0.000    17.500     0.078     0.400     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     2   CH  11 TEXAS            0.000     0.000     0.000     1.000     0.070     0.400     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     3   CH  11 TEXAS            0.000     0.000     0.000     1.000     0.076     0.400     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     4   CH  11 TEXAS            0.000     0.000     0.000     3.500     0.067     0.400     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     5   CH  11 TEXAS            0.000     0.000     0.000     5.000     0.066     0.400     0.000     0.000     0.000     0.000     0.000     0.000
ENDATA12

$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$

CARD TYPE      REACH  ID        NBOD      NBOD   ORGN CONV       NH3       NH3      PHOS     DENIT
                                DECA      SETT  TO NH3 SRCE     DECA      SRCE      SRCE      RATE

COEF-2           1   CH       0.108     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           2   CH       0.110     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           3   CH       0.113     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           4   CH       0.087     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           5   CH       0.088     0.050     0.000       0.000     0.000     0.000     0.000
ENDATA13

$$$ DATA TYPE 14 (ALGAE AND MACROPHYTE COEFFICIENTS) $$$

CARD TYPE      REACH  ID       SECCHI    ALGAE:     ALGAE    ALG CONV     ALGAE     ALGAE     MACRO     MACRO
                                DEPTH     CHL A      SETT     TO SOD      GROW      RESP      GROW      RESP

ENDATA14

$$$ DATA TYPE 15 (COLIFORM AND NONCONSERVATIVE COEFFICIENTS) $$$

CARD TYPE      REACH  ID    COLIFORM       NCM       NCM    NCM CONV
                            DIE-OFF     DECAY      SETT     TO SOD

ENDATA15

$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE      REACH  ID       OUTFLOW      INFLOW      TEMP     SALIN      CM-I     CM-II   IN/DIST  OUT/DIST

INCR-1           1   CH       0.00000     1.70590     27.53      0.70   1000.00   2800.00   0.56863   0.00000
INCR-1           2   CH       0.00000     0.44370     27.54      1.20   2000.00   3800.00   0.18488   0.00000
INCR-1           3   CH       0.00000     0.44370     28.30      3.50   2600.00   8800.00   0.18487   0.00000
INCR-1           4   CH       0.00000    12.96140     28.33      3.70   2600.00   8800.00   5.63539   0.00000
INCR-1           5   CH       0.00000     4.12720     28.59      4.20   2600.00   8800.00   0.89722   0.00000
ENDATA16

$$$ DATA TYPE 17 (INCREMENTAL DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE      REACH  ID          DO       BOD      NBOD                          BOD#2
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INCR-2            1   CH        3.33     10.00      2.51      0.00      0.00      0.00
INCR-2            2   CH        3.33     13.94      2.86      0.00      0.00      0.00
INCR-2            3   CH        3.94     16.73      3.53      0.00      0.00      0.00
INCR-2            4   CH        4.15     15.55      3.57      0.00      0.00      0.00
INCR-2            5   CH        4.75     15.15      3.53      0.00      0.00      0.00
ENDATA17

$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

INCR-3            1   CH        0.00     60.00      0.00      0.00
INCR-3            2   CH        0.00     36.20      0.00      0.00
INCR-3            3   CH        0.00     87.70      0.00      0.00
INCR-3            4   CH        0.00     68.50      0.00      0.00
INCR-3            5   CH        0.00     68.50      0.00      0.00
ENDATA18

$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$

CARD TYPE      REACH  ID       BOD#1     NBOD       COLI       NCM        DO     BOD#2

NONPOINT          1   CH     1200.00     90.00      0.00      0.00      0.00      0.00
NONPOINT          2   CH     3200.00    400.00      0.00      0.00      0.00      0.00
NONPOINT          3   CH     1000.00    100.00      0.00      0.00      0.00      0.00
NONPOINT          4   CH     1500.00    150.00      0.00      0.00      0.00      0.00
NONPOINT          5   CH     1500.00    150.00      0.00      0.00      0.00      0.00
ENDATA19

$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                  UNIT     FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                                        m³/s      cfs   deg C      ppt      MG/L      MG/L

HDWTR-1           1     HEADWATER - BC01        0   3.46040  122.189   27.93     0.45   137.000   865.300
ENDATA20

$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE     ELEMENT   NAME                          DO     BOD#1     NBOD                          BOD#2
                                                     mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2           1     HEADWATER - BC01            5.24      8.95      2.70      0.00      0.00      0.00
ENDATA21

$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                         PHOS     CHL A      COLI       NCM
                                                     mg/L      mg/L      mg/L      mg/L

HDWTR-3           1     HEADWATER - BC01             0.00      0.00      0.00      0.00
ENDATA22

$$$ DATA TYPE 23 (JUNCTION DATA) $$$

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM
```

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ENDATA23

$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE  ELEMENT    RKILO  NAME                    FLOW       FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                                     m³/s        cfs      MGD   deg C      ppt      MG/L      MG/L

ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                                   % BOD                            %
CARD TYPE     ELEMENT   NAME                        DO       BOD      RMVL     NBOD               NITRIF                BOD#2
                                                   mg/L      mg/L                mg/L      mg/L                mg/L      mg/L

ENDATA25

$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                      PHOS     CHL A      COLI       NCM
                                                  mg/L      mg/L      mg/L      mg/L

ENDATA26

$$$ DATA TYPE 27 (LOWER BOUNDARY CONDITIONS) $$$

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     28.830     deg C
LOWER BC     SALINITY                          =      4.240     ppt
LOWER BC     CONSERVATIVE MATERIAL I           =    274.000     MG/L
LOWER BC     CONSERVATIVE MATERIAL II          =    601.000     MG/L
LOWER BC     DISSOLVED OXYGEN                  =      5.140     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND    =     14.755     mg/L
LOWER BC     CHLOROPHYLL A                     =    105.000     µg/L
LOWER BC     NBOD                              =      3.485     mg/L
ENDATA27

$$$ DATA TYPE 28 (DAM DATA) $$$

CARD TYPE     ELEMENT   NAME                 EQN      "A"       "B"       "H"

ENDATA28

$$$ DATA TYPE 29 (SENSITIVITY ANALYSIS DATA) $$$

CARD TYPE       PARAMETER     COL 1     COL 2     COL 3     COL 4     COL 5     COL 6     COL 7     COL 8

SENSITIV         BASEFLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         CHLOR A       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         VELOCITY      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         TEMPERAT       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BOD DECA      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BOD SETT      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NBOD DEC      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NBOD SET      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BENTHAL       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         DISPERSI      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         REAERATI      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
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SENSITIV         HDW FLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         DEPTH         30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL FLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL TEMP       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC TEMP       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
ENDATA29

$$$ DATA TYPE 30 (PLOT CONTROL CARDS) $$$


NUMBER OF PLOTS =  1
NUMBER OF REACHES IN PLOT 1 =   5
PLOT RCH  1  2  3  4  5
ENDATA30

$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$


ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 21


FINAL REPORT    HEADWATER - BC01                                BAYOU CHAUVIN 120507 WATERSHED MODEL
REACH NO.  1      BC01 - BC03                                   BAYOU CHAUVIN 120507 SENSITIVITY RUN


 ******************************************************** REACH INPUTS ********************************************************

 ELEM  TYPE        FLOW     TEMP     SALN     CM-I    CM-II     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                       deg C     ppt     MG/L     MG/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL

    1  HDWTR     3.46040   27.93     0.45   137.00   865.30   5.24   8.95   0.00   8.95   0.00   2.70   0.00   0.00   0.00  60.00     0.00    0.00
 EACH  INCR      0.05686   27.53     0.70  1000.00  2800.00   3.33  10.00   0.00                  2.51   0.00   0.00   0.00     0.00    0.00


 ************************************************** HYDRAULIC PARAMETER VALUES **************************************************

 ELEM   BEGIN  ENDING       FLOW   PCT   ADVCTV    TRAVEL   DEPTH   WIDTH    VOLUME    SURFACE  X-SECT     TIDAL   TIDAL   DISPRSN    MEAN
  NO.    DIST    DIST              EFF     VELO      TIME                                  AREA    AREA     PRISM    VELO              VELO
          km      km        m³/s            m/s      days       m       m        m³         m²      m²        m³     m/s      m²/s     m/s
```

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14.70 | 14.60 | 3.51726 | 0.0 | 0.11844 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 229.61 | 0.000 | 1.500 | 0.118 |
| 2 | 14.60 | 14.50 | 3.57413 | 0.0 | 0.12036 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 459.22 | 0.000 | 1.500 | 0.120 |
| 3 | 14.50 | 14.40 | 3.63099 | 0.0 | 0.12227 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 688.82 | 0.001 | 1.500 | 0.122 |
| 4 | 14.40 | 14.30 | 3.68785 | 0.0 | 0.12419 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 918.43 | 0.001 | 1.500 | 0.124 |
| 5 | 14.30 | 14.20 | 3.74472 | 0.0 | 0.12610 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 1148.04 | 0.001 | 1.500 | 0.126 |
| 6 | 14.20 | 14.10 | 3.80158 | 0.0 | 0.12802 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 1377.65 | 0.001 | 1.500 | 0.128 |
| 7 | 14.10 | 14.00 | 3.85844 | 0.0 | 0.12993 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 1607.26 | 0.001 | 1.500 | 0.130 |
| 8 | 14.00 | 13.90 | 3.91531 | 0.0 | 0.13185 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 1836.86 | 0.001 | 1.500 | 0.132 |
| 9 | 13.90 | 13.80 | 3.97217 | 0.0 | 0.13376 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 2066.47 | 0.002 | 1.500 | 0.134 |
| 10 | 13.80 | 13.70 | 4.02903 | 0.0 | 0.13568 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 2296.08 | 0.002 | 1.500 | 0.136 |
| 11 | 13.70 | 13.60 | 4.08590 | 0.0 | 0.13759 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 2525.69 | 0.002 | 1.500 | 0.138 |
| 12 | 13.60 | 13.50 | 4.14276 | 0.0 | 0.13951 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 2755.30 | 0.002 | 1.500 | 0.140 |
| 13 | 13.50 | 13.40 | 4.19962 | 0.0 | 0.14142 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 2984.90 | 0.002 | 1.500 | 0.141 |
| 14 | 13.40 | 13.30 | 4.25649 | 0.0 | 0.14334 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 3214.51 | 0.002 | 1.500 | 0.143 |
| 15 | 13.30 | 13.20 | 4.31335 | 0.0 | 0.14525 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 3444.12 | 0.003 | 1.500 | 0.145 |
| 16 | 13.20 | 13.10 | 4.37021 | 0.0 | 0.14717 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 3673.73 | 0.003 | 1.500 | 0.147 |
| 17 | 13.10 | 13.00 | 4.42708 | 0.0 | 0.14908 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 3903.34 | 0.003 | 1.500 | 0.149 |
| 18 | 13.00 | 12.90 | 4.48394 | 0.0 | 0.15099 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 4132.94 | 0.003 | 1.500 | 0.151 |
| 19 | 12.90 | 12.80 | 4.54080 | 0.0 | 0.15291 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 4362.55 | 0.003 | 1.500 | 0.153 |
| 20 | 12.80 | 12.70 | 4.59767 | 0.0 | 0.15482 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 4592.16 | 0.003 | 1.500 | 0.155 |
| 21 | 12.70 | 12.60 | 4.65453 | 0.0 | 0.15674 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 4821.77 | 0.004 | 1.500 | 0.157 |
| 22 | 12.60 | 12.50 | 4.71139 | 0.0 | 0.15865 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 5051.38 | 0.004 | 1.500 | 0.159 |
| 23 | 12.50 | 12.40 | 4.76826 | 0.0 | 0.16057 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 5280.98 | 0.004 | 1.500 | 0.161 |
| 24 | 12.40 | 12.30 | 4.82512 | 0.0 | 0.16248 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 5510.59 | 0.004 | 1.500 | 0.162 |
| 25 | 12.30 | 12.20 | 4.88198 | 0.0 | 0.16440 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 5740.20 | 0.004 | 1.500 | 0.164 |
| 26 | 12.20 | 12.10 | 4.93885 | 0.0 | 0.16631 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 5969.81 | 0.004 | 1.500 | 0.166 |
| 27 | 12.10 | 12.00 | 4.99571 | 0.0 | 0.16823 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 6199.41 | 0.005 | 1.500 | 0.168 |
| 28 | 12.00 | 11.90 | 5.05257 | 0.0 | 0.17014 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 6429.02 | 0.005 | 1.500 | 0.170 |
| 29 | 11.90 | 11.80 | 5.10944 | 0.0 | 0.17206 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 6658.63 | 0.005 | 1.500 | 0.172 |
| 30 | 11.80 | 11.70 | 5.16630 | 0.0 | 0.17397 | 0.01 | 1.16 | 25.51 | 2969.60 | 2551.20 | 29.70 | 6888.24 | 0.005 | 1.500 | 0.174 |
| TOT | | | | | | 0.24 | | | 89087.90 | 76536.00 | | | | | |
| AVG | | | | | 0.1443 | | 1.16 | 25.51 | | | 29.70 | | | | |
| CUM | | | | | | 0.24 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14.600 | 7.86 | 1.08 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 14.500 | 7.86 | 1.08 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 14.400 | 7.86 | 1.09 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | 14.300 | 7.86 | 1.09 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 14.200 | 7.86 | 1.10 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.96 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 14.100 | 7.86 | 1.10 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.90 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 14.000 | 7.86 | 1.11 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 13.900 | 7.86 | 1.11 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.79 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 13.800 | 7.85 | 1.12 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.74 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 13.700 | 7.85 | 1.12 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.68 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 13.600 | 7.85 | 1.13 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.62 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 13.500 | 7.85 | 1.13 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.12 | 28.12 | 28.12 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 13.400 | 7.85 | 1.13 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.51 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14 | 13.300 | 7.85 | 1.14 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 13.200 | 7.85 | 1.14 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 13.100 | 7.85 | 1.15 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.34 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 13.000 | 7.85 | 1.15 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | 12.900 | 7.85 | 1.15 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 12.800 | 7.85 | 1.16 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 12.700 | 7.85 | 1.16 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | 12.600 | 7.85 | 1.17 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.12 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 12.500 | 7.84 | 1.17 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.12 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 12.400 | 7.84 | 1.17 | 0.11 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.11 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.95 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 12.300 | 7.84 | 1.18 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 12.200 | 7.84 | 1.18 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.08 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 12.100 | 7.84 | 1.18 | 0.09 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.06 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.78 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | 12.000 | 7.84 | 1.19 | 0.09 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.05 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.73 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 11.900 | 7.84 | 1.19 | 0.08 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.04 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.67 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 11.800 | 7.84 | 1.20 | 0.08 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.13 | 28.13 | 28.13 | 0.03 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.62 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 11.700 | 7.84 | 1.20 | 0.07 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 28.14 | 28.14 | 28.14 | 0.03 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.56 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 0.99 | 0.08 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 17.50 | | | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14.600 | 27.53 | 0.73 | 149.49 | 893.31 | 5.05 | 9.03 | 0.00 | 9.03 | 0.00 | 2.70 | 0.00 | 0.00 | 0.00 | 0.00 | 59.21 | 0.00 | 0. | 0.00 |
| 2 | 14.500 | 27.53 | 0.74 | 162.97 | 923.53 | 4.85 | 9.13 | 0.00 | 9.13 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 58.41 | 0.00 | 0. | 0.00 |
| 3 | 14.400 | 27.53 | 0.76 | 176.03 | 952.80 | 4.66 | 9.22 | 0.00 | 9.22 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 57.62 | 0.00 | 0. | 0.00 |
| 4 | 14.300 | 27.53 | 0.78 | 188.69 | 981.18 | 4.47 | 9.30 | 0.00 | 9.30 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 56.83 | 0.00 | 0. | 0.00 |
| 5 | 14.200 | 27.53 | 0.79 | 200.97 | 1008.70 | 4.29 | 9.39 | 0.00 | 9.39 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 56.03 | 0.00 | 0. | 0.00 |
| 6 | 14.100 | 27.53 | 0.81 | 212.88 | 1035.41 | 4.12 | 9.47 | 0.00 | 9.47 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 55.24 | 0.00 | 0. | 0.00 |
| 7 | 14.000 | 27.53 | 0.83 | 224.44 | 1061.33 | 3.95 | 9.54 | 0.00 | 9.54 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 54.45 | 0.00 | 0. | 0.00 |
| 8 | 13.900 | 27.53 | 0.84 | 235.67 | 1086.49 | 3.79 | 9.62 | 0.00 | 9.62 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 53.65 | 0.00 | 0. | 0.00 |
| 9 | 13.800 | 27.53 | 0.86 | 246.57 | 1110.95 | 3.64 | 9.69 | 0.00 | 9.69 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 52.86 | 0.00 | 0. | 0.00 |
| 10 | 13.700 | 27.53 | 0.88 | 257.18 | 1134.71 | 3.49 | 9.76 | 0.00 | 9.76 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 52.07 | 0.00 | 0. | 0.00 |
| 11 | 13.600 | 27.53 | 0.89 | 267.48 | 1157.82 | 3.34 | 9.83 | 0.00 | 9.83 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 51.27 | 0.00 | 0. | 0.00 |
| 12 | 13.500 | 27.53 | 0.91 | 277.51 | 1180.29 | 3.20 | 9.89 | 0.00 | 9.89 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 50.48 | 0.00 | 0. | 0.00 |
| 13 | 13.400 | 27.53 | 0.93 | 287.26 | 1202.16 | 3.07 | 9.96 | 0.00 | 9.96 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 49.69 | 0.00 | 0. | 0.00 |
| 14 | 13.300 | 27.53 | 0.94 | 296.76 | 1223.45 | 2.94 | 10.02 | 0.00 | 10.02 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 48.89 | 0.00 | 0. | 0.00 |
| 15 | 13.200 | 27.53 | 0.96 | 306.00 | 1244.18 | 2.81 | 10.08 | 0.00 | 10.08 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 48.10 | 0.00 | 0. | 0.00 |
| 16 | 13.100 | 27.54 | 0.98 | 315.01 | 1264.37 | 2.69 | 10.14 | 0.00 | 10.14 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 47.31 | 0.00 | 0. | 0.00 |
| 17 | 13.000 | 27.54 | 0.99 | 323.79 | 1284.04 | 2.57 | 10.19 | 0.00 | 10.19 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 46.51 | 0.00 | 0. | 0.00 |
| 18 | 12.900 | 27.54 | 1.01 | 332.34 | 1303.22 | 2.46 | 10.25 | 0.00 | 10.25 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 45.72 | 0.00 | 0. | 0.00 |
| 19 | 12.800 | 27.54 | 1.03 | 340.68 | 1321.92 | 2.35 | 10.30 | 0.00 | 10.30 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 44.93 | 0.00 | 0. | 0.00 |
| 20 | 12.700 | 27.54 | 1.04 | 348.82 | 1340.16 | 2.24 | 10.35 | 0.00 | 10.35 | 0.00 | 2.72 | 0.00 | 0.00 | 0.00 | 0.00 | 44.13 | 0.00 | 0. | 0.00 |
| 21 | 12.600 | 27.54 | 1.06 | 356.75 | 1357.95 | 2.14 | 10.40 | 0.00 | 10.40 | 0.00 | 2.73 | 0.00 | 0.00 | 0.00 | 0.00 | 43.34 | 0.00 | 0. | 0.00 |
| 22 | 12.500 | 27.54 | 1.08 | 364.50 | 1375.32 | 2.04 | 10.45 | 0.00 | 10.45 | 0.00 | 2.73 | 0.00 | 0.00 | 0.00 | 0.00 | 42.55 | 0.00 | 0. | 0.00 |
| 23 | 12.400 | 27.54 | 1.09 | 372.06 | 1392.27 | 1.94 | 10.50 | 0.00 | 10.50 | 0.00 | 2.73 | 0.00 | 0.00 | 0.00 | 0.00 | 41.75 | 0.00 | 0. | 0.00 |
| 24 | 12.300 | 27.54 | 1.11 | 379.45 | 1408.82 | 1.85 | 10.54 | 0.00 | 10.54 | 0.00 | 2.73 | 0.00 | 0.00 | 0.00 | 0.00 | 40.96 | 0.00 | 0. | 0.00 |
| 25 | 12.200 | 27.54 | 1.13 | 386.66 | 1424.99 | 1.75 | 10.59 | 0.00 | 10.59 | 0.00 | 2.73 | 0.00 | 0.00 | 0.00 | 0.00 | 40.17 | 0.00 | 0. | 0.00 |
| 26 | 12.100 | 27.54 | 1.14 | 393.71 | 1440.79 | 1.67 | 10.63 | 0.00 | 10.63 | 0.00 | 2.73 | 0.00 | 0.00 | 0.00 | 0.00 | 39.37 | 0.00 | 0. | 0.00 |
| 27 | 12.000 | 27.54 | 1.16 | 400.59 | 1456.23 | 1.58 | 10.68 | 0.00 | 10.68 | 0.00 | 2.74 | 0.00 | 0.00 | 0.00 | 0.00 | 38.58 | 0.00 | 0. | 0.00 |
| 28 | 11.900 | 27.54 | 1.18 | 407.33 | 1471.32 | 1.50 | 10.72 | 0.00 | 10.72 | 0.00 | 2.74 | 0.00 | 0.00 | 0.00 | 0.00 | 37.79 | 0.00 | 0. | 0.00 |
| 29 | 11.800 | 27.54 | 1.19 | 413.90 | 1486.04 | 1.42 | 10.76 | 0.00 | 10.76 | 0.00 | 2.74 | 0.00 | 0.00 | 0.00 | 0.00 | 36.99 | 0.00 | 0. | 0.00 |
| 30 | 11.700 | 27.54 | 1.21 | 420.26 | 1499.96 | 1.36 | 10.82 | 0.00 | 10.82 | 0.00 | 2.75 | 0.00 | 0.00 | 0.00 | 0.00 | 36.20 | 0.00 | 0. | 0.00 |

REACH NO. 2 BC03 - BC05 BAYOU CHAUVIN 120507 SENSITIVITY RUN

********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | UPR RCH | 5.16630 | 27.54 | 1.21 | 420.26 | 1499.96 | 1.36 | 10.82 | 0.00 | 10.82 | 0.00 | 2.75 | 0.00 | 0.00 | 0.00 | 36.20 | 0.00 | 0.00 |
| EACH | INCR | 0.01849 | 27.54 | 1.20 | 2000.00 | 3800.00 | 3.33 | 13.94 | 0.00 | | | 2.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW m³/s | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME m³ | SURFACE AREA m² | X-SECT AREA m² | TIDAL PRISM m³ | TIDAL VELO m/s | DISPRSN m²/s | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 11.70 | 11.60 | 5.18479 | 0.0 | 0.19840 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 7115.92 | 0.006 | 1.500 | 0.198 |
| 32 | 11.60 | 11.50 | 5.20327 | 0.0 | 0.19911 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 7343.60 | 0.006 | 1.500 | 0.199 |
| 33 | 11.50 | 11.40 | 5.22176 | 0.0 | 0.19982 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 7571.28 | 0.006 | 1.500 | 0.200 |
| 34 | 11.40 | 11.30 | 5.24025 | 0.0 | 0.20052 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 7798.97 | 0.007 | 1.500 | 0.201 |
| 35 | 11.30 | 11.20 | 5.25874 | 0.0 | 0.20123 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 8026.65 | 0.007 | 1.500 | 0.201 |
| 36 | 11.20 | 11.10 | 5.27722 | 0.0 | 0.20194 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 8254.33 | 0.007 | 1.500 | 0.202 |
| 37 | 11.10 | 11.00 | 5.29571 | 0.0 | 0.20265 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 8482.01 | 0.007 | 1.500 | 0.203 |
| 38 | 11.00 | 10.90 | 5.31420 | 0.0 | 0.20335 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 8709.69 | 0.007 | 1.500 | 0.203 |
| 39 | 10.90 | 10.80 | 5.33269 | 0.0 | 0.20406 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 8937.38 | 0.008 | 1.500 | 0.204 |
| 40 | 10.80 | 10.70 | 5.35117 | 0.0 | 0.20477 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 9165.06 | 0.008 | 1.500 | 0.205 |
| 41 | 10.70 | 10.60 | 5.36966 | 0.0 | 0.20548 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 9392.74 | 0.008 | 1.500 | 0.205 |
| 42 | 10.60 | 10.50 | 5.38815 | 0.0 | 0.20618 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 9620.42 | 0.008 | 1.500 | 0.206 |
| 43 | 10.50 | 10.40 | 5.40664 | 0.0 | 0.20689 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 9848.10 | 0.008 | 1.500 | 0.207 |
| 44 | 10.40 | 10.30 | 5.42512 | 0.0 | 0.20760 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 10075.78 | 0.009 | 1.500 | 0.208 |
| 45 | 10.30 | 10.20 | 5.44361 | 0.0 | 0.20831 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 10303.47 | 0.009 | 1.500 | 0.208 |
| 46 | 10.20 | 10.10 | 5.46210 | 0.0 | 0.20901 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 10531.15 | 0.009 | 1.500 | 0.209 |
| 47 | 10.10 | 10.00 | 5.48059 | 0.0 | 0.20972 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 10758.83 | 0.009 | 1.500 | 0.210 |
| 48 | 10.00 | 9.90 | 5.49907 | 0.0 | 0.21043 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 10986.51 | 0.009 | 1.500 | 0.210 |
| 49 | 9.90 | 9.80 | 5.51756 | 0.0 | 0.21114 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 11214.19 | 0.010 | 1.500 | 0.211 |
| 50 | 9.80 | 9.70 | 5.53605 | 0.0 | 0.21184 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 11441.87 | 0.010 | 1.500 | 0.212 |
| 51 | 9.70 | 9.60 | 5.55454 | 0.0 | 0.21255 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 11669.56 | 0.010 | 1.500 | 0.213 |
| 52 | 9.60 | 9.50 | 5.57302 | 0.0 | 0.21326 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 11897.24 | 0.010 | 1.500 | 0.213 |
| 53 | 9.50 | 9.40 | 5.59151 | 0.0 | 0.21396 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 12124.92 | 0.010 | 1.500 | 0.214 |
| 54 | 9.40 | 9.30 | 5.61000 | 0.0 | 0.21467 | 0.01 | 1.03 | 25.30 | 2613.28 | 2529.80 | 26.13 | 12352.60 | 0.011 | 1.500 | 0.215 |
| TOT | | | | | | 0.13 | | | 62718.82 | 60715.21 | | | | | |
| AVG | | | | | 0.2064 | | 1.03 | 25.30 | | | 26.13 | | | | |
| CUM | | | | | | 0.38 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 11.600 | 7.83 | 1.38 | 0.07 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.61 | 1.61 | 1.61 | 0.03 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 32 | 11.500 | 7.82 | 1.39 | 0.07 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.61 | 1.61 | 1.61 | 0.04 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 2.87 | 0.00 | 0.00 | 0.00 | 0.00 |
| 33 | 11.400 | 7.81 | 1.39 | 0.08 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.62 | 1.62 | 1.62 | 0.05 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34 | 11.300 | 7.80 | 1.39 | 0.08 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.62 | 1.62 | 1.62 | 0.06 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.18 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.200 | 7.80 | 1.39 | 0.08 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.62 | 1.62 | 1.62 | 0.06 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 36 | 11.100 | 7.79 | 1.39 | 0.09 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.63 | 1.63 | 1.63 | 0.07 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 37 | 11.000 | 7.78 | 1.40 | 0.09 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.63 | 1.63 | 1.63 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 38 | 10.900 | 7.77 | 1.40 | 0.09 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.63 | 1.63 | 1.63 | 0.10 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.82 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39 | 10.800 | 7.76 | 1.40 | 0.09 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.11 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 3.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40 | 10.700 | 7.75 | 1.40 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.12 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 41 | 10.600 | 7.75 | 1.40 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 1.64 | 1.64 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 42 | 10.500 | 7.74 | 1.41 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.65 | 1.65 | 1.65 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| 43 | 10.400 | 7.73 | 1.41 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.65 | 1.65 | 1.65 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.62 | 0.00 | 0.00 | 0.00 | 0.00 |
| 44 | 10.300 | 7.72 | 1.41 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.65 | 1.65 | 1.65 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.78 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45 | 10.200 | 7.71 | 1.41 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.66 | 1.66 | 1.66 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 4.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 46 | 10.100 | 7.70 | 1.42 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.66 | 1.66 | 1.66 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| 47 | 10.000 | 7.70 | 1.42 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.66 | 1.66 | 1.66 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| 48 | 9.900 | 7.69 | 1.42 | 0.10 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 1.67 | 1.67 | 1.67 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.43 | 0.00 | 0.00 | 0.00 | 0.00 |
| 49 | 9.800 | 7.68 | 1.42 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.67 | 1.67 | 1.67 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.59 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50 | 9.700 | 7.67 | 1.42 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.67 | 1.67 | 1.67 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.76 | 0.00 | 0.00 | 0.00 | 0.00 |
| 51 | 9.600 | 7.66 | 1.43 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.68 | 1.68 | 1.68 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.92 | 0.00 | 0.00 | 0.00 | 0.00 |
| 52 | 9.500 | 7.65 | 1.43 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.68 | 1.68 | 1.68 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| 53 | 9.400 | 7.65 | 1.43 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.68 | 1.68 | 1.68 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 54 | 9.300 | 7.64 | 1.43 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.21 | 0.07 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | | | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 11.600 | 27.57 | 1.30 | 425.86 | 1508.12 | 1.42 | 11.09 | 0.00 | 11.09 | 0.00 | 2.78 | 0.00 | 0.00 | 0.00 | 0.00 | 38.35 | 0.00 | 0. | 0.00 |
| 32 | 11.500 | 27.60 | 1.40 | 431.45 | 1516.26 | 1.48 | 11.36 | 0.00 | 11.36 | 0.00 | 2.82 | 0.00 | 0.00 | 0.00 | 0.00 | 40.49 | 0.00 | 0. | 0.00 |
| 33 | 11.400 | 27.64 | 1.49 | 437.00 | 1524.34 | 1.54 | 11.63 | 0.00 | 11.63 | 0.00 | 2.85 | 0.00 | 0.00 | 0.00 | 0.00 | 42.64 | 0.00 | 0. | 0.00 |
| 34 | 11.300 | 27.67 | 1.59 | 442.51 | 1532.36 | 1.60 | 11.89 | 0.00 | 11.89 | 0.00 | 2.89 | 0.00 | 0.00 | 0.00 | 0.00 | 44.78 | 0.00 | 0. | 0.00 |
| 35 | 11.200 | 27.70 | 1.68 | 447.99 | 1540.33 | 1.65 | 12.16 | 0.00 | 12.16 | 0.00 | 2.92 | 0.00 | 0.00 | 0.00 | 0.00 | 46.93 | 0.00 | 0. | 0.00 |
| 36 | 11.100 | 27.73 | 1.78 | 453.42 | 1548.24 | 1.71 | 12.41 | 0.00 | 12.41 | 0.00 | 2.96 | 0.00 | 0.00 | 0.00 | 0.00 | 49.08 | 0.00 | 0. | 0.00 |
| 37 | 11.000 | 27.76 | 1.87 | 458.82 | 1556.10 | 1.77 | 12.67 | 0.00 | 12.67 | 0.00 | 2.99 | 0.00 | 0.00 | 0.00 | 0.00 | 51.22 | 0.00 | 0. | 0.00 |
| 38 | 10.900 | 27.79 | 1.96 | 464.18 | 1563.90 | 1.83 | 12.92 | 0.00 | 12.92 | 0.00 | 3.02 | 0.00 | 0.00 | 0.00 | 0.00 | 53.37 | 0.00 | 0. | 0.00 |
| 39 | 10.800 | 27.83 | 2.06 | 469.50 | 1571.65 | 1.88 | 13.17 | 0.00 | 13.17 | 0.00 | 3.06 | 0.00 | 0.00 | 0.00 | 0.00 | 55.51 | 0.00 | 0. | 0.00 |
| 40 | 10.700 | 27.86 | 2.15 | 474.78 | 1579.35 | 1.94 | 13.42 | 0.00 | 13.42 | 0.00 | 3.09 | 0.00 | 0.00 | 0.00 | 0.00 | 57.66 | 0.00 | 0. | 0.00 |
| 41 | 10.600 | 27.89 | 2.25 | 480.03 | 1586.99 | 1.99 | 13.66 | 0.00 | 13.66 | 0.00 | 3.12 | 0.00 | 0.00 | 0.00 | 0.00 | 59.80 | 0.00 | 0. | 0.00 |
| 42 | 10.500 | 27.92 | 2.34 | 485.24 | 1594.58 | 2.05 | 13.90 | 0.00 | 13.90 | 0.00 | 3.15 | 0.00 | 0.00 | 0.00 | 0.00 | 61.95 | 0.00 | 0. | 0.00 |
| 43 | 10.400 | 27.95 | 2.43 | 490.42 | 1602.11 | 2.10 | 14.14 | 0.00 | 14.14 | 0.00 | 3.18 | 0.00 | 0.00 | 0.00 | 0.00 | 64.10 | 0.00 | 0. | 0.00 |
| 44 | 10.300 | 27.98 | 2.53 | 495.56 | 1609.60 | 2.16 | 14.38 | 0.00 | 14.38 | 0.00 | 3.21 | 0.00 | 0.00 | 0.00 | 0.00 | 66.24 | 0.00 | 0. | 0.00 |
| 45 | 10.200 | 28.01 | 2.62 | 500.67 | 1617.04 | 2.21 | 14.61 | 0.00 | 14.61 | 0.00 | 3.24 | 0.00 | 0.00 | 0.00 | 0.00 | 68.39 | 0.00 | 0. | 0.00 |
| 46 | 10.100 | 28.05 | 2.72 | 505.74 | 1624.42 | 2.27 | 14.85 | 0.00 | 14.85 | 0.00 | 3.28 | 0.00 | 0.00 | 0.00 | 0.00 | 70.53 | 0.00 | 0. | 0.00 |
| 47 | 10.000 | 28.08 | 2.81 | 510.78 | 1631.76 | 2.32 | 15.08 | 0.00 | 15.08 | 0.00 | 3.31 | 0.00 | 0.00 | 0.00 | 0.00 | 72.68 | 0.00 | 0. | 0.00 |
| 48 | 9.900 | 28.11 | 2.90 | 515.79 | 1639.04 | 2.38 | 15.30 | 0.00 | 15.30 | 0.00 | 3.34 | 0.00 | 0.00 | 0.00 | 0.00 | 74.82 | 0.00 | 0. | 0.00 |
| 49 | 9.800 | 28.14 | 3.00 | 520.76 | 1646.28 | 2.43 | 15.53 | 0.00 | 15.53 | 0.00 | 3.36 | 0.00 | 0.00 | 0.00 | 0.00 | 76.97 | 0.00 | 0. | 0.00 |
| 50 | 9.700 | 28.17 | 3.09 | 525.69 | 1653.47 | 2.49 | 15.75 | 0.00 | 15.75 | 0.00 | 3.39 | 0.00 | 0.00 | 0.00 | 0.00 | 79.12 | 0.00 | 0. | 0.00 |
| 51 | 9.600 | 28.20 | 3.19 | 530.60 | 1660.61 | 2.54 | 15.97 | 0.00 | 15.97 | 0.00 | 3.42 | 0.00 | 0.00 | 0.00 | 0.00 | 81.26 | 0.00 | 0. | 0.00 |
| 52 | 9.500 | 28.24 | 3.28 | 535.47 | 1667.71 | 2.60 | 16.19 | 0.00 | 16.19 | 0.00 | 3.45 | 0.00 | 0.00 | 0.00 | 0.00 | 83.41 | 0.00 | 0. | 0.00 |
| 53 | 9.400 | 28.27 | 3.38 | 540.32 | 1674.84 | 2.65 | 16.40 | 0.00 | 16.40 | 0.00 | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 | 85.55 | 0.00 | 0. | 0.00 |
| 54 | 9.300 | 28.30 | 3.47 | 545.34 | 1683.19 | 2.71 | 16.61 | 0.00 | 16.61 | 0.00 | 3.51 | 0.00 | 0.00 | 0.00 | 0.00 | 87.70 | 0.00 | 0. | 0.00 |

REACH NO. 3 BC05 - BC06 BAYOU CHAUVIN 120507 SENSITIVITY RUN

********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | UPR RCH | 5.61000 | 28.30 | 3.47 | 545.34 | 1683.19 | 2.71 | 16.61 | 0.00 | 16.61 | 0.00 | 3.51 | 0.00 | 0.00 | 0.00 | 87.70 | 0.00 | 0.00 |
| EACH | INCR | 0.01849 | 28.30 | 3.50 | 2600.00 | 8800.00 | 3.94 | 16.73 | 0.00 | | | 3.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW m³/s | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME m³ | SURFACE AREA m² | X-SECT AREA m² | TIDAL PRISM m³ | TIDAL VELO m/s | DISPRSN m²/s | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | 9.30 | 9.20 | 5.62849 | 0.0 | 0.16204 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 12654.35 | 0.008 | 1.500 | 0.162 |
| 56 | 9.20 | 9.10 | 5.64697 | 0.0 | 0.16257 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 12956.10 | 0.008 | 1.500 | 0.163 |
| 57 | 9.10 | 9.00 | 5.66546 | 0.0 | 0.16311 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 13257.86 | 0.008 | 1.500 | 0.163 |
| 58 | 9.00 | 8.90 | 5.68395 | 0.0 | 0.16364 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 13559.61 | 0.009 | 1.500 | 0.164 |
| 59 | 8.90 | 8.80 | 5.70244 | 0.0 | 0.16417 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 13861.36 | 0.009 | 1.500 | 0.164 |
| 60 | 8.80 | 8.70 | 5.72092 | 0.0 | 0.16470 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 14163.11 | 0.009 | 1.500 | 0.165 |
| 61 | 8.70 | 8.60 | 5.73941 | 0.0 | 0.16523 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 14464.86 | 0.009 | 1.500 | 0.165 |
| 62 | 8.60 | 8.50 | 5.75790 | 0.0 | 0.16577 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 14766.62 | 0.009 | 1.500 | 0.166 |
| 63 | 8.50 | 8.40 | 5.77639 | 0.0 | 0.16630 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 15068.37 | 0.010 | 1.500 | 0.166 |
| 64 | 8.40 | 8.30 | 5.79487 | 0.0 | 0.16683 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 15370.12 | 0.010 | 1.500 | 0.167 |
| 65 | 8.30 | 8.20 | 5.81336 | 0.0 | 0.16736 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 15671.87 | 0.010 | 1.500 | 0.167 |
| 66 | 8.20 | 8.10 | 5.83185 | 0.0 | 0.16790 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 15973.62 | 0.010 | 1.500 | 0.168 |
| 67 | 8.10 | 8.00 | 5.85034 | 0.0 | 0.16843 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 16275.38 | 0.010 | 1.500 | 0.168 |
| 68 | 8.00 | 7.90 | 5.86882 | 0.0 | 0.16896 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 16577.13 | 0.011 | 1.500 | 0.169 |
| 69 | 7.90 | 7.80 | 5.88731 | 0.0 | 0.16949 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 16878.88 | 0.011 | 1.500 | 0.169 |
| 70 | 7.80 | 7.70 | 5.90580 | 0.0 | 0.17002 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 17180.63 | 0.011 | 1.500 | 0.170 |
| 71 | 7.70 | 7.60 | 5.92428 | 0.0 | 0.17056 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 17482.38 | 0.011 | 1.500 | 0.171 |
| 72 | 7.60 | 7.50 | 5.94277 | 0.0 | 0.17109 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 17784.14 | 0.011 | 1.500 | 0.171 |
| 73 | 7.50 | 7.40 | 5.96126 | 0.0 | 0.17162 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 18085.89 | 0.012 | 1.500 | 0.172 |
| 74 | 7.40 | 7.30 | 5.97975 | 0.0 | 0.17215 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 18387.64 | 0.012 | 1.500 | 0.172 |
| 75 | 7.30 | 7.20 | 5.99823 | 0.0 | 0.17269 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 18689.39 | 0.012 | 1.500 | 0.173 |
| 76 | 7.20 | 7.10 | 6.01672 | 0.0 | 0.17322 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 18991.14 | 0.012 | 1.500 | 0.173 |
| 77 | 7.10 | 7.00 | 6.03521 | 0.0 | 0.17375 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 19292.90 | 0.012 | 1.500 | 0.174 |
| 78 | 7.00 | 6.90 | 6.05370 | 0.0 | 0.17428 | 0.01 | 1.04 | 33.53 | 3473.50 | 3352.80 | 34.74 | 19594.65 | 0.013 | 1.500 | 0.174 |
| TOT | | | | | | 0.17 | | | 83364.01 | 80467.20 | | | | | |
| AVG | | | | | 0.1681 | | 1.04 | 33.53 | | | 34.74 | | | | |
| CUM | | | | | | 0.54 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | 9.200 | 7.64 | 1.32 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| 56 | 9.100 | 7.64 | 1.32 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 57 | 9.000 | 7.64 | 1.32 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 58 | 8.900 | 7.64 | 1.33 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.19 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 59 | 8.800 | 7.63 | 1.33 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60 | 8.700 | 7.63 | 1.33 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61 | 8.600 | 7.63 | 1.33 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 62 | 8.500 | 7.63 | 1.33 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.95 | 0.00 | 0.00 | 0.00 | 0.00 |
| 63 | 8.400 | 7.63 | 1.33 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.90 | 0.00 | 0.00 | 0.00 | 0.00 |
| 64 | 8.300 | 7.63 | 1.33 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65 | 8.200 | 7.63 | 1.33 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.78 | 0.00 | 0.00 | 0.00 | 0.00 |
| 66 | 8.100 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.72 | 0.00 | 0.00 | 0.00 | 0.00 |
| 67 | 8.000 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 68 | 7.900 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.16 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.60 | 0.00 | 0.00 | 0.00 | 0.00 |
| 69 | 7.800 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70 | 7.700 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.49 | 0.00 | 0.00 | 0.00 | 0.00 |
| 71 | 7.600 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.43 | 0.00 | 0.00 | 0.00 | 0.00 |
| 72 | 7.500 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 73 | 7.400 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.31 | 0.00 | 0.00 | 0.00 | 0.00 |
| 74 | 7.300 | 7.63 | 1.34 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75 | 7.200 | 7.62 | 1.35 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 76 | 7.100 | 7.62 | 1.35 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 77 | 7.000 | 7.62 | 1.35 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 78 | 6.900 | 7.62 | 1.35 | 0.11 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.69 | 1.69 | 1.69 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 1.15 | 0.08 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | | | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | 9.200 | 28.30 | 3.48 | 552.16 | 1706.80 | 2.77 | 16.62 | 0.00 | 16.62 | 0.00 | 3.51 | 0.00 | 0.00 | 0.00 | 0.00 | 86.90 | 0.00 | 0. | 0.00 |
| 56 | 9.100 | 28.30 | 3.49 | 558.86 | 1730.00 | 2.84 | 16.64 | 0.00 | 16.64 | 0.00 | 3.51 | 0.00 | 0.00 | 0.00 | 0.00 | 86.10 | 0.00 | 0. | 0.00 |
| 57 | 9.000 | 28.30 | 3.50 | 565.51 | 1753.06 | 2.90 | 16.65 | 0.00 | 16.65 | 0.00 | 3.52 | 0.00 | 0.00 | 0.00 | 0.00 | 85.30 | 0.00 | 0. | 0.00 |
| 58 | 8.900 | 28.31 | 3.51 | 572.13 | 1775.97 | 2.97 | 16.67 | 0.00 | 16.67 | 0.00 | 3.52 | 0.00 | 0.00 | 0.00 | 0.00 | 84.50 | 0.00 | 0. | 0.00 |
| 59 | 8.800 | 28.31 | 3.52 | 578.70 | 1798.73 | 3.03 | 16.68 | 0.00 | 16.68 | 0.00 | 3.52 | 0.00 | 0.00 | 0.00 | 0.00 | 83.70 | 0.00 | 0. | 0.00 |
| 60 | 8.700 | 28.31 | 3.53 | 585.22 | 1821.34 | 3.09 | 16.69 | 0.00 | 16.69 | 0.00 | 3.53 | 0.00 | 0.00 | 0.00 | 0.00 | 82.90 | 0.00 | 0. | 0.00 |
| 61 | 8.600 | 28.31 | 3.54 | 591.71 | 1843.81 | 3.14 | 16.71 | 0.00 | 16.71 | 0.00 | 3.53 | 0.00 | 0.00 | 0.00 | 0.00 | 82.10 | 0.00 | 0. | 0.00 |
| 62 | 8.500 | 28.31 | 3.55 | 598.16 | 1866.13 | 3.20 | 16.72 | 0.00 | 16.72 | 0.00 | 3.53 | 0.00 | 0.00 | 0.00 | 0.00 | 81.30 | 0.00 | 0. | 0.00 |
| 63 | 8.400 | 28.31 | 3.56 | 604.56 | 1888.31 | 3.26 | 16.74 | 0.00 | 16.74 | 0.00 | 3.54 | 0.00 | 0.00 | 0.00 | 0.00 | 80.50 | 0.00 | 0. | 0.00 |
| 64 | 8.300 | 28.31 | 3.57 | 610.92 | 1910.34 | 3.31 | 16.75 | 0.00 | 16.75 | 0.00 | 3.54 | 0.00 | 0.00 | 0.00 | 0.00 | 79.70 | 0.00 | 0. | 0.00 |
| 65 | 8.200 | 28.31 | 3.58 | 617.24 | 1932.24 | 3.36 | 16.76 | 0.00 | 16.76 | 0.00 | 3.54 | 0.00 | 0.00 | 0.00 | 0.00 | 78.90 | 0.00 | 0. | 0.00 |
| 66 | 8.100 | 28.31 | 3.60 | 623.53 | 1954.00 | 3.42 | 16.78 | 0.00 | 16.78 | 0.00 | 3.54 | 0.00 | 0.00 | 0.00 | 0.00 | 78.10 | 0.00 | 0. | 0.00 |
| 67 | 8.000 | 28.32 | 3.61 | 629.77 | 1975.62 | 3.47 | 16.79 | 0.00 | 16.79 | 0.00 | 3.55 | 0.00 | 0.00 | 0.00 | 0.00 | 77.30 | 0.00 | 0. | 0.00 |
| 68 | 7.900 | 28.32 | 3.62 | 635.97 | 1997.11 | 3.52 | 16.80 | 0.00 | 16.80 | 0.00 | 3.55 | 0.00 | 0.00 | 0.00 | 0.00 | 76.50 | 0.00 | 0. | 0.00 |
| 69 | 7.800 | 28.32 | 3.63 | 642.13 | 2018.46 | 3.56 | 16.82 | 0.00 | 16.82 | 0.00 | 3.55 | 0.00 | 0.00 | 0.00 | 0.00 | 75.70 | 0.00 | 0. | 0.00 |
| 70 | 7.700 | 28.32 | 3.64 | 648.26 | 2039.68 | 3.61 | 16.83 | 0.00 | 16.83 | 0.00 | 3.55 | 0.00 | 0.00 | 0.00 | 0.00 | 74.90 | 0.00 | 0. | 0.00 |
| 71 | 7.600 | 28.32 | 3.65 | 654.35 | 2060.76 | 3.66 | 16.84 | 0.00 | 16.84 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 74.10 | 0.00 | 0. | 0.00 |
| 72 | 7.500 | 28.32 | 3.66 | 660.40 | 2081.72 | 3.70 | 16.85 | 0.00 | 16.85 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 73.30 | 0.00 | 0. | 0.00 |
| 73 | 7.400 | 28.32 | 3.67 | 666.41 | 2102.54 | 3.75 | 16.87 | 0.00 | 16.87 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 72.50 | 0.00 | 0. | 0.00 |
| 74 | 7.300 | 28.33 | 3.68 | 672.39 | 2123.24 | 3.79 | 16.88 | 0.00 | 16.88 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 71.70 | 0.00 | 0. | 0.00 |
| 75 | 7.200 | 28.33 | 3.69 | 678.34 | 2143.85 | 3.83 | 16.89 | 0.00 | 16.89 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 70.90 | 0.00 | 0. | 0.00 |
| 76 | 7.100 | 28.33 | 3.70 | 684.41 | 2164.88 | 3.87 | 16.90 | 0.00 | 16.90 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 70.10 | 0.00 | 0. | 0.00 |
| 77 | 7.000 | 28.33 | 3.71 | 692.39 | 2192.52 | 3.91 | 16.91 | 0.00 | 16.91 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 69.30 | 0.00 | 0. | 0.00 |
| 78 | 6.900 | 28.33 | 3.72 | 724.85 | 2304.96 | 3.96 | 16.89 | 0.00 | 16.89 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |

REACH NO. 4 BC06 - BC07 BAYOU CHAUVIN 120507 SENSITIVITY RUN

********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | UPR RCH | 6.05370 | 28.33 | 3.72 | 724.85 | 2304.96 | 3.96 | 16.89 | 0.00 | 16.89 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0.00 |
| EACH | INCR | 0.56354 | 28.33 | 3.70 | 2600.00 | 8800.00 | 4.15 | 15.55 | 0.00 | | | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW m³/s | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME m³ | SURFACE AREA m² | X-SECT AREA m² | TIDAL PRISM m³ | TIDAL VELO m/s | DISPRSN m²/s | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | 6.90 | 6.80 | 6.61724 | 0.0 | 0.06057 | 0.02 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 20129.57 | 0.004 | 1.500 | 0.061 |
| 80 | 6.80 | 6.70 | 7.18078 | 0.0 | 0.06573 | 0.02 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 20664.50 | 0.004 | 1.500 | 0.066 |
| 81 | 6.70 | 6.60 | 7.74431 | 0.0 | 0.07089 | 0.02 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 21199.42 | 0.004 | 1.500 | 0.071 |
| 82 | 6.60 | 6.50 | 8.30785 | 0.0 | 0.07605 | 0.02 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 21734.34 | 0.004 | 1.500 | 0.076 |
| 83 | 6.50 | 6.40 | 8.87139 | 0.0 | 0.08121 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 22269.27 | 0.005 | 1.500 | 0.081 |
| 84 | 6.40 | 6.30 | 9.43493 | 0.0 | 0.08637 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 22804.19 | 0.005 | 1.500 | 0.086 |
| 85 | 6.30 | 6.20 | 9.99847 | 0.0 | 0.09152 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 23339.12 | 0.005 | 1.500 | 0.092 |
| 86 | 6.20 | 6.10 | 10.56201 | 0.0 | 0.09668 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 23874.04 | 0.005 | 1.500 | 0.097 |
| 87 | 6.10 | 6.00 | 11.12555 | 0.0 | 0.10184 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 24408.96 | 0.005 | 1.500 | 0.102 |
| 88 | 6.00 | 5.90 | 11.68909 | 0.0 | 0.10700 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 24943.89 | 0.005 | 1.500 | 0.107 |
| 89 | 5.90 | 5.80 | 12.25263 | 0.0 | 0.11216 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 25478.81 | 0.005 | 1.500 | 0.112 |
| 90 | 5.80 | 5.70 | 12.81617 | 0.0 | 0.11732 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 26013.73 | 0.005 | 1.500 | 0.117 |
| 91 | 5.70 | 5.60 | 13.37971 | 0.0 | 0.12248 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 26548.66 | 0.005 | 1.500 | 0.122 |
| 92 | 5.60 | 5.50 | 13.94325 | 0.0 | 0.12763 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 27083.58 | 0.006 | 1.500 | 0.128 |
| 93 | 5.50 | 5.40 | 14.50679 | 0.0 | 0.13279 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 27618.51 | 0.006 | 1.500 | 0.133 |
| 94 | 5.40 | 5.30 | 15.07033 | 0.0 | 0.13795 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 28153.43 | 0.006 | 1.500 | 0.138 |
| 95 | 5.30 | 5.20 | 15.63387 | 0.0 | 0.14311 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 28688.35 | 0.006 | 1.500 | 0.143 |
| 96 | 5.20 | 5.10 | 16.19741 | 0.0 | 0.14827 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 29223.28 | 0.006 | 1.500 | 0.148 |
| 97 | 5.10 | 5.00 | 16.76095 | 0.0 | 0.15343 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 29758.20 | 0.006 | 1.500 | 0.153 |
| 98 | 5.00 | 4.90 | 17.32449 | 0.0 | 0.15859 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 30293.12 | 0.006 | 1.500 | 0.159 |
| 99 | 4.90 | 4.80 | 17.88803 | 0.0 | 0.16374 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 30828.05 | 0.006 | 1.500 | 0.164 |
| 100 | 4.80 | 4.70 | 18.45156 | 0.0 | 0.16890 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 31362.97 | 0.006 | 1.500 | 0.169 |
| 101 | 4.70 | 4.60 | 19.01510 | 0.0 | 0.17406 | 0.01 | 1.84 | 59.44 | 10924.34 | 5943.60 | 109.24 | 31897.90 | 0.006 | 1.500 | 0.174 |
| TOT | | | | | | 0.25 | | | 251259.83 | 136702.83 | | | | | |
| AVG | | | | | 0.1066 | | 1.84 | 59.44 | | | 109.24 | | | | |
| CUM | | | | | | 0.79 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | 6.800 | 7.62 | 0.61 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.92 | 5.92 | 5.92 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80 | 6.700 | 7.62 | 0.62 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.92 | 5.92 | 5.92 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 81 | 6.600 | 7.62 | 0.63 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.93 | 5.93 | 5.93 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 82 | 6.500 | 7.61 | 0.64 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.93 | 5.93 | 5.93 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 83 | 6.400 | 7.61 | 0.66 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.94 | 5.94 | 5.94 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.03 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 84 | 6.300 | 7.61 | 0.67 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.94 | 5.94 | 5.94 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85 | 6.200 | 7.61 | 0.68 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.94 | 5.94 | 5.94 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 86 | 6.100 | 7.60 | 0.69 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.95 | 5.95 | 5.95 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87 | 6.000 | 7.60 | 0.70 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.95 | 5.95 | 5.95 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| 88 | 5.900 | 7.60 | 0.71 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.96 | 5.96 | 5.96 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 89 | 5.800 | 7.60 | 0.72 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.96 | 5.96 | 5.96 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 5.700 | 7.59 | 0.73 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.96 | 5.96 | 5.96 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 91 | 5.600 | 7.59 | 0.74 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.97 | 5.97 | 5.97 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 92 | 5.500 | 7.59 | 0.74 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.97 | 5.97 | 5.97 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 93 | 5.400 | 7.59 | 0.75 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.98 | 5.98 | 5.98 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 94 | 5.300 | 7.58 | 0.76 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.98 | 5.98 | 5.98 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 95 | 5.200 | 7.58 | 0.77 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.99 | 5.99 | 5.99 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 96 | 5.100 | 7.58 | 0.78 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.99 | 5.99 | 5.99 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 97 | 5.000 | 7.58 | 0.78 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.99 | 5.99 | 5.99 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 98 | 4.900 | 7.57 | 0.79 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 6.00 | 6.00 | 6.00 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 99 | 4.800 | 7.57 | 0.80 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 6.00 | 6.00 | 6.00 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100 | 4.700 | 7.57 | 0.80 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 6.01 | 6.01 | 6.01 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 101 | 4.600 | 7.57 | 0.81 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 6.01 | 6.01 | 6.01 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 0.62 | 0.07 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 | | | 0.09 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | 6.800 | 28.34 | 3.74 | 889.83 | 2876.40 | 4.01 | 16.70 | 0.00 | 16.70 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 80 | 6.700 | 28.35 | 3.77 | 1019.89 | 3326.91 | 4.05 | 16.55 | 0.00 | 16.55 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 81 | 6.600 | 28.36 | 3.79 | 1131.77 | 3714.44 | 4.09 | 16.42 | 0.00 | 16.42 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 82 | 6.500 | 28.38 | 3.81 | 1229.00 | 4051.22 | 4.12 | 16.31 | 0.00 | 16.31 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 83 | 6.400 | 28.39 | 3.83 | 1314.26 | 4346.54 | 4.15 | 16.21 | 0.00 | 16.21 | 0.00 | 3.57 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 84 | 6.300 | 28.40 | 3.86 | 1389.62 | 4607.56 | 4.18 | 16.13 | 0.00 | 16.13 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 85 | 6.200 | 28.41 | 3.88 | 1456.70 | 4839.89 | 4.20 | 16.05 | 0.00 | 16.05 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 86 | 6.100 | 28.42 | 3.90 | 1516.77 | 5047.98 | 4.23 | 15.98 | 0.00 | 15.98 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 87 | 6.000 | 28.43 | 3.92 | 1570.89 | 5235.41 | 4.25 | 15.93 | 0.00 | 15.93 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 88 | 5.900 | 28.44 | 3.95 | 1619.88 | 5405.11 | 4.26 | 15.87 | 0.00 | 15.87 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 89 | 5.800 | 28.45 | 3.97 | 1664.44 | 5559.47 | 4.28 | 15.82 | 0.00 | 15.82 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 90 | 5.700 | 28.47 | 3.99 | 1705.15 | 5700.46 | 4.30 | 15.78 | 0.00 | 15.78 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 91 | 5.600 | 28.48 | 4.01 | 1742.47 | 5829.75 | 4.31 | 15.74 | 0.00 | 15.74 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 92 | 5.500 | 28.49 | 4.04 | 1776.82 | 5948.72 | 4.32 | 15.70 | 0.00 | 15.70 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 93 | 5.400 | 28.50 | 4.06 | 1808.53 | 6058.57 | 4.34 | 15.67 | 0.00 | 15.67 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 94 | 5.300 | 28.51 | 4.08 | 1837.90 | 6160.29 | 4.35 | 15.64 | 0.00 | 15.64 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 95 | 5.200 | 28.52 | 4.10 | 1865.18 | 6254.76 | 4.36 | 15.61 | 0.00 | 15.61 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 96 | 5.100 | 28.53 | 4.13 | 1890.57 | 6342.72 | 4.37 | 15.58 | 0.00 | 15.58 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 97 | 5.000 | 28.54 | 4.15 | 1914.27 | 6424.82 | 4.38 | 15.56 | 0.00 | 15.56 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 98 | 4.900 | 28.56 | 4.17 | 1936.45 | 6501.63 | 4.39 | 15.53 | 0.00 | 15.53 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 99 | 4.800 | 28.57 | 4.19 | 1957.23 | 6573.61 | 4.40 | 15.51 | 0.00 | 15.51 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 100 | 4.700 | 28.58 | 4.22 | 1976.67 | 6640.93 | 4.40 | 15.49 | 0.00 | 15.49 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |
| 101 | 4.600 | 28.59 | 4.24 | 1993.93 | 6700.72 | 4.41 | 15.47 | 0.00 | 15.47 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0. | 0.00 |

FINAL REPORT HEADWATER - BC01 BAYOU CHAUVIN 120507 WATERSHED MODEL
REACH NO. 5 BC07 - BC09 BAYOU CHAUVIN 120507 SENSITIVITY RUN

********** REACH INPUTS **********

| ELEM NO. | TYPE | FLOW | TEMP deg C | SALN ppt | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | PHOS mg/L | CHL A µg/L | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | UPR RCH | 19.01510 | 28.59 | 4.24 | 1993.93 | 6700.72 | 4.41 | 15.47 | 0.00 | 15.47 | 0.00 | 3.56 | 0.00 | 0.00 | 0.00 | 68.50 | 0.00 | 0.00 |
| EACH | INCR | 0.08972 | 28.59 | 4.20 | 2600.00 | 8800.00 | 4.75 | 15.15 | 0.00 | | | 3.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

********** HYDRAULIC PARAMETER VALUES **********

| ELEM NO. | BEGIN DIST km | ENDING DIST km | FLOW m³/s | PCT EFF | ADVCTV VELO m/s | TRAVEL TIME days | DEPTH m | WIDTH m | VOLUME m³ | SURFACE AREA m² | X-SECT AREA m² | TIDAL PRISM m³ | TIDAL VELO m/s | DISPRSN m²/s | MEAN VELO m/s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | 4.60 | 4.50 | 19.10483 | 0.0 | 0.14368 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 32408.43 | 0.005 | 1.500 | 0.144 |
| 103 | 4.50 | 4.40 | 19.19455 | 0.0 | 0.14436 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 32918.96 | 0.006 | 1.500 | 0.144 |
| 104 | 4.40 | 4.30 | 19.28427 | 0.0 | 0.14503 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 33429.50 | 0.006 | 1.500 | 0.145 |
| 105 | 4.30 | 4.20 | 19.37399 | 0.0 | 0.14571 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 33940.04 | 0.006 | 1.500 | 0.146 |
| 106 | 4.20 | 4.10 | 19.46371 | 0.0 | 0.14638 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 34450.57 | 0.006 | 1.500 | 0.146 |
| 107 | 4.10 | 4.00 | 19.55343 | 0.0 | 0.14706 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 34961.11 | 0.006 | 1.500 | 0.147 |
| 108 | 4.00 | 3.90 | 19.64316 | 0.0 | 0.14773 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 35471.64 | 0.006 | 1.500 | 0.148 |
| 109 | 3.90 | 3.80 | 19.73288 | 0.0 | 0.14841 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 35982.18 | 0.006 | 1.500 | 0.148 |
| 110 | 3.80 | 3.70 | 19.82260 | 0.0 | 0.14908 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 36492.71 | 0.006 | 1.500 | 0.149 |
| 111 | 3.70 | 3.60 | 19.91232 | 0.0 | 0.14976 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 37003.25 | 0.006 | 1.500 | 0.150 |
| 112 | 3.60 | 3.50 | 20.00204 | 0.0 | 0.15043 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 37513.78 | 0.006 | 1.500 | 0.150 |
| 113 | 3.50 | 3.40 | 20.09176 | 0.0 | 0.15110 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 38024.32 | 0.006 | 1.500 | 0.151 |
| 114 | 3.40 | 3.30 | 20.18149 | 0.0 | 0.15178 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 38534.85 | 0.006 | 1.500 | 0.152 |
| 115 | 3.30 | 3.20 | 20.27121 | 0.0 | 0.15245 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 39045.39 | 0.007 | 1.500 | 0.152 |
| 116 | 3.20 | 3.10 | 20.36093 | 0.0 | 0.15313 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 39555.92 | 0.007 | 1.500 | 0.153 |
| 117 | 3.10 | 3.00 | 20.45065 | 0.0 | 0.15380 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 40066.46 | 0.007 | 1.500 | 0.154 |
| 118 | 3.00 | 2.90 | 20.54037 | 0.0 | 0.15448 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 40576.99 | 0.007 | 1.500 | 0.154 |
| 119 | 2.90 | 2.80 | 20.63009 | 0.0 | 0.15515 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 41087.53 | 0.007 | 1.500 | 0.155 |
| 120 | 2.80 | 2.70 | 20.71982 | 0.0 | 0.15583 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 41598.06 | 0.007 | 1.500 | 0.156 |
| 121 | 2.70 | 2.60 | 20.80954 | 0.0 | 0.15650 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 42108.60 | 0.007 | 1.500 | 0.157 |
| 122 | 2.60 | 2.50 | 20.89926 | 0.0 | 0.15718 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 42619.13 | 0.007 | 1.500 | 0.157 |
| 123 | 2.50 | 2.40 | 20.98898 | 0.0 | 0.15785 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 43129.67 | 0.007 | 1.500 | 0.158 |
| 124 | 2.40 | 2.30 | 21.07870 | 0.0 | 0.15853 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 43640.20 | 0.007 | 1.500 | 0.159 |
| 125 | 2.30 | 2.20 | 21.16842 | 0.0 | 0.15920 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 44150.74 | 0.007 | 1.500 | 0.159 |
| 126 | 2.20 | 2.10 | 21.25815 | 0.0 | 0.15988 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 44661.27 | 0.007 | 1.500 | 0.160 |
| 127 | 2.10 | 2.00 | 21.34787 | 0.0 | 0.16055 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 45171.81 | 0.008 | 1.500 | 0.161 |
| 128 | 2.00 | 1.90 | 21.43759 | 0.0 | 0.16123 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 45682.34 | 0.008 | 1.500 | 0.161 |
| 129 | 1.90 | 1.80 | 21.52731 | 0.0 | 0.16190 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 46192.88 | 0.008 | 1.500 | 0.162 |
| 130 | 1.80 | 1.70 | 21.61703 | 0.0 | 0.16258 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 46703.41 | 0.008 | 1.500 | 0.163 |
| 131 | 1.70 | 1.60 | 21.70675 | 0.0 | 0.16325 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 47213.95 | 0.008 | 1.500 | 0.163 |
| 132 | 1.60 | 1.50 | 21.79648 | 0.0 | 0.16393 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 47724.48 | 0.008 | 1.500 | 0.164 |
| 133 | 1.50 | 1.40 | 21.88620 | 0.0 | 0.16460 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 48235.02 | 0.008 | 1.500 | 0.165 |
| 134 | 1.40 | 1.30 | 21.97592 | 0.0 | 0.16528 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 48745.55 | 0.008 | 1.500 | 0.165 |
| 135 | 1.30 | 1.20 | 22.06564 | 0.0 | 0.16595 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 49256.09 | 0.008 | 1.500 | 0.166 |
| 136 | 1.20 | 1.10 | 22.15536 | 0.0 | 0.16662 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 49766.62 | 0.008 | 1.500 | 0.167 |
| 137 | 1.10 | 1.00 | 22.24508 | 0.0 | 0.16730 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 50277.16 | 0.008 | 1.500 | 0.167 |
| 138 | 1.00 | 0.90 | 22.33481 | 0.0 | 0.16797 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 50787.70 | 0.008 | 1.500 | 0.168 |
| 139 | 0.90 | 0.80 | 22.42453 | 0.0 | 0.16865 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 51298.23 | 0.009 | 1.500 | 0.169 |
| 140 | 0.80 | 0.70 | 22.51425 | 0.0 | 0.16932 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 51808.77 | 0.009 | 1.500 | 0.169 |
| 141 | 0.70 | 0.60 | 22.60397 | 0.0 | 0.17000 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 52319.30 | 0.009 | 1.500 | 0.170 |
| 142 | 0.60 | 0.50 | 22.69369 | 0.0 | 0.17067 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 52829.84 | 0.009 | 1.500 | 0.171 |
| 143 | 0.50 | 0.40 | 22.78341 | 0.0 | 0.17135 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 53340.37 | 0.009 | 1.500 | 0.171 |
| 144 | 0.40 | 0.30 | 22.87314 | 0.0 | 0.17202 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 53850.91 | 0.009 | 1.500 | 0.172 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 0.30 | 0.20 | 22.96286 | 0.0 | 0.17270 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 54361.44 | 0.009 | 1.500 | 0.173 |
| 146 | 0.20 | 0.10 | 23.05258 | 0.0 | 0.17337 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 54871.98 | 0.009 | 1.500 | 0.173 |
| 147 | 0.10 | 0.00 | 23.14230 | 0.0 | 0.17405 | 0.01 | 2.34 | 56.73 | 13296.58 | 5672.60 | 132.97 | 55382.51 | 0.009 | 1.500 | 0.174 |
| TOT | | | | | | 0.34 | | | 611642.19 | 260939.48 | | | | | |
| AVG | | | | | 0.1584 | | 2.34 | 56.73 | | | 132.97 | | | | |
| CUM | | | | | | 1.13 | | | | | | | | | |

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

| ELEM NO. | ENDING DIST | SAT D.O. mg/L | REAER RATE 1/da | BOD#1 DECAY 1/da | BOD#1 SETT 1/da | ABOD#1 DECAY 1/da | BOD#2 DECAY 1/da | BOD#2 SETT 1/da | ABOD#2 DECAY 1/da | BKGD SOD * | FULL SOD * | CORR SOD * | ORGN DECAY 1/da | ORGN SETT 1/da | NH3 DECAY 1/da | NH3 SRCE * | DENIT RATE 1/da | PO4 SRCE * | ALG PROD ** | MAC PROD ** | COLI DECAY 1/da | NCM DECAY 1/da | NCM SETT 1/da |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | 4.500 | 7.57 | 0.62 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.59 | 8.59 | 8.59 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 103 | 4.400 | 7.57 | 0.62 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.59 | 8.59 | 8.59 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 104 | 4.300 | 7.56 | 0.62 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.60 | 8.60 | 8.60 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.26 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 4.200 | 7.56 | 0.62 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.60 | 8.60 | 8.60 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 106 | 4.100 | 7.56 | 0.62 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.60 | 8.60 | 8.60 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 107 | 4.000 | 7.56 | 0.62 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.61 | 8.61 | 8.61 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.44 | 0.00 | 0.00 | 0.00 | 0.00 |
| 108 | 3.900 | 7.56 | 0.62 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.61 | 8.61 | 8.61 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 109 | 3.800 | 7.56 | 0.63 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.61 | 8.61 | 8.61 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.56 | 0.00 | 0.00 | 0.00 | 0.00 |
| 110 | 3.700 | 7.56 | 0.63 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.61 | 8.61 | 8.61 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.62 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 3.600 | 7.56 | 0.63 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.62 | 8.62 | 8.62 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.68 | 0.00 | 0.00 | 0.00 | 0.00 |
| 112 | 3.500 | 7.56 | 0.63 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.62 | 8.62 | 8.62 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.74 | 0.00 | 0.00 | 0.00 | 0.00 |
| 113 | 3.400 | 7.56 | 0.63 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.62 | 8.62 | 8.62 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.80 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 3.300 | 7.56 | 0.63 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.62 | 8.62 | 8.62 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.87 | 0.00 | 0.00 | 0.00 | 0.00 |
| 115 | 3.200 | 7.56 | 0.63 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.63 | 8.63 | 8.63 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 116 | 3.100 | 7.56 | 0.63 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.63 | 8.63 | 8.63 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 5.99 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117 | 3.000 | 7.56 | 0.63 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.63 | 8.63 | 8.63 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 118 | 2.900 | 7.55 | 0.63 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.64 | 8.64 | 8.64 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 119 | 2.800 | 7.55 | 0.63 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.64 | 8.64 | 8.64 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 2.700 | 7.55 | 0.63 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.64 | 8.64 | 8.64 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 121 | 2.600 | 7.55 | 0.64 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.64 | 8.64 | 8.64 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 122 | 2.500 | 7.55 | 0.64 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.65 | 8.65 | 8.65 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | 2.400 | 7.55 | 0.64 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.65 | 8.65 | 8.65 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.41 | 0.00 | 0.00 | 0.00 | 0.00 |
| 124 | 2.300 | 7.55 | 0.64 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.65 | 8.65 | 8.65 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.47 | 0.00 | 0.00 | 0.00 | 0.00 |
| 125 | 2.200 | 7.55 | 0.64 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.66 | 8.66 | 8.66 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 2.100 | 7.55 | 0.64 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.66 | 8.66 | 8.66 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.59 | 0.00 | 0.00 | 0.00 | 0.00 |
| 127 | 2.000 | 7.55 | 0.64 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.66 | 8.66 | 8.66 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| 128 | 1.900 | 7.55 | 0.64 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.66 | 8.66 | 8.66 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 129 | 1.800 | 7.55 | 0.64 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.67 | 8.67 | 8.67 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.78 | 0.00 | 0.00 | 0.00 | 0.00 |
| 130 | 1.700 | 7.55 | 0.64 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.67 | 8.67 | 8.67 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.84 | 0.00 | 0.00 | 0.00 | 0.00 |
| 131 | 1.600 | 7.55 | 0.64 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.67 | 8.67 | 8.67 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.90 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 1.500 | 7.55 | 0.64 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.68 | 8.68 | 8.68 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 6.96 | 0.00 | 0.00 | 0.00 | 0.00 |
| 133 | 1.400 | 7.54 | 0.64 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.68 | 8.68 | 8.68 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 7.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 134 | 1.300 | 7.54 | 0.65 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.68 | 8.68 | 8.68 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 7.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 1.200 | 7.54 | 0.65 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.68 | 8.68 | 8.68 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 7.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 136 | 1.100 | 7.54 | 0.65 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.69 | 8.69 | 8.69 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 7.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 137 | 1.000 | 7.54 | 0.65 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.69 | 8.69 | 8.69 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 7.26 | 0.00 | 0.00 | 0.00 | 0.00 |
| 138 | 0.900 | 7.54 | 0.65 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.69 | 8.69 | 8.69 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 7.32 | 0.00 | 0.00 | 0.00 | 0.00 |
| 139 | 0.800 | 7.54 | 0.65 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.70 | 8.70 | 8.70 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 7.39 | 0.00 | 0.00 | 0.00 | 0.00 |
| 140 | 0.700 | 7.54 | 0.65 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.70 | 8.70 | 8.70 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 7.45 | 0.00 | 0.00 | 0.00 | 0.00 |
| 141 | 0.600 | 7.54 | 0.65 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.70 | 8.70 | 8.70 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 7.51 | 0.00 | 0.00 | 0.00 | 0.00 |
| 142 | 0.500 | 7.54 | 0.65 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.70 | 8.70 | 8.70 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 7.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 143 | 0.400 | 7.54 | 0.65 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.71 | 8.71 | 8.71 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 7.63 | 0.00 | 0.00 | 0.00 | 0.00 |
| 144 | 0.300 | 7.54 | 0.65 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.71 | 8.71 | 8.71 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 7.69 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 0.200 | 7.54 | 0.65 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.71 | 8.71 | 8.71 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 7.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 146 | 0.100 | 7.54 | 0.65 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.72 | 8.72 | 8.72 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 7.81 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147 | 0.000 | 7.54 | 0.66 | 0.10 | 0.49 | 0.00 | 0.00 | 0.00 | 0.00 | 8.72 | 8.72 | 8.72 | 0.15 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 7.88 | 0.00 | 0.00 | 0.00 | 0.00 |
| AVG 20 DEG C RATE | | | 0.54 | 0.07 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 5.00 | | | 0.09 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 | 0.00 | 0.00 |

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

| ELEM NO. | ENDING DIST | TEMP DEG C | SALN PPT | CM-I MG/L | CM-II MG/L | DO mg/L | BOD#1 mg/L | BOD#2 mg/L | EBOD#1 mg/L | EBOD#2 mg/L | ORGN mg/L | NH3 mg/L | NO3+2 mg/L | TOTN mg/L | PHOS mg/L | CHL A µg/L | MACRO g/m³ | COLI #/100mL | NCM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | 4.500 | 28.60 | 4.24 | 1996.79 | 6710.65 | 4.43 | 15.41 | 0.00 | 15.41 | 0.00 | 3.55 | 0.00 | 0.00 | 0.00 | 0.00 | 69.29 | 0.00 | 0. | 0.00 |
| 103 | 4.400 | 28.60 | 4.24 | 1999.61 | 6720.41 | 4.44 | 15.36 | 0.00 | 15.36 | 0.00 | 3.55 | 0.00 | 0.00 | 0.00 | 0.00 | 70.09 | 0.00 | 0. | 0.00 |
| 104 | 4.300 | 28.61 | 4.24 | 2002.40 | 6730.07 | 4.45 | 15.30 | 0.00 | 15.30 | 0.00 | 3.54 | 0.00 | 0.00 | 0.00 | 0.00 | 70.88 | 0.00 | 0. | 0.00 |
| 105 | 4.200 | 28.61 | 4.24 | 2005.17 | 6739.65 | 4.47 | 15.25 | 0.00 | 15.25 | 0.00 | 3.54 | 0.00 | 0.00 | 0.00 | 0.00 | 71.67 | 0.00 | 0. | 0.00 |
| 106 | 4.100 | 28.62 | 4.24 | 2007.91 | 6749.14 | 4.48 | 15.20 | 0.00 | 15.20 | 0.00 | 3.54 | 0.00 | 0.00 | 0.00 | 0.00 | 72.47 | 0.00 | 0. | 0.00 |
| 107 | 4.000 | 28.62 | 4.24 | 2010.62 | 6758.54 | 4.50 | 15.15 | 0.00 | 15.15 | 0.00 | 3.53 | 0.00 | 0.00 | 0.00 | 0.00 | 73.26 | 0.00 | 0. | 0.00 |
| 108 | 3.900 | 28.63 | 4.24 | 2013.31 | 6767.85 | 4.51 | 15.10 | 0.00 | 15.10 | 0.00 | 3.53 | 0.00 | 0.00 | 0.00 | 0.00 | 74.05 | 0.00 | 0. | 0.00 |
| 109 | 3.800 | 28.63 | 4.24 | 2015.97 | 6777.09 | 4.53 | 15.05 | 0.00 | 15.05 | 0.00 | 3.53 | 0.00 | 0.00 | 0.00 | 0.00 | 74.85 | 0.00 | 0. | 0.00 |
| 110 | 3.700 | 28.64 | 4.24 | 2018.62 | 6786.23 | 4.54 | 15.00 | 0.00 | 15.00 | 0.00 | 3.52 | 0.00 | 0.00 | 0.00 | 0.00 | 75.64 | 0.00 | 0. | 0.00 |
| 111 | 3.600 | 28.64 | 4.24 | 2021.23 | 6795.30 | 4.56 | 14.95 | 0.00 | 14.95 | 0.00 | 3.52 | 0.00 | 0.00 | 0.00 | 0.00 | 76.43 | 0.00 | 0. | 0.00 |
| 112 | 3.500 | 28.65 | 4.24 | 2023.83 | 6804.28 | 4.57 | 14.90 | 0.00 | 14.90 | 0.00 | 3.51 | 0.00 | 0.00 | 0.00 | 0.00 | 77.23 | 0.00 | 0. | 0.00 |
| 113 | 3.400 | 28.65 | 4.24 | 2026.40 | 6813.19 | 4.59 | 14.86 | 0.00 | 14.86 | 0.00 | 3.51 | 0.00 | 0.00 | 0.00 | 0.00 | 78.02 | 0.00 | 0. | 0.00 |
| 114 | 3.300 | 28.66 | 4.24 | 2028.94 | 6822.01 | 4.61 | 14.81 | 0.00 | 14.81 | 0.00 | 3.51 | 0.00 | 0.00 | 0.00 | 0.00 | 78.82 | 0.00 | 0. | 0.00 |
| 115 | 3.200 | 28.66 | 4.24 | 2031.47 | 6830.76 | 4.62 | 14.76 | 0.00 | 14.76 | 0.00 | 3.50 | 0.00 | 0.00 | 0.00 | 0.00 | 79.61 | 0.00 | 0. | 0.00 |
| 116 | 3.100 | 28.67 | 4.24 | 2033.97 | 6839.43 | 4.64 | 14.72 | 0.00 | 14.72 | 0.00 | 3.50 | 0.00 | 0.00 | 0.00 | 0.00 | 80.40 | 0.00 | 0. | 0.00 |
| 117 | 3.000 | 28.67 | 4.24 | 2036.45 | 6848.02 | 4.66 | 14.67 | 0.00 | 14.67 | 0.00 | 3.50 | 0.00 | 0.00 | 0.00 | 0.00 | 81.20 | 0.00 | 0. | 0.00 |
| 118 | 2.900 | 28.68 | 4.24 | 2038.91 | 6856.54 | 4.68 | 14.63 | 0.00 | 14.63 | 0.00 | 3.49 | 0.00 | 0.00 | 0.00 | 0.00 | 81.99 | 0.00 | 0. | 0.00 |
| 119 | 2.800 | 28.68 | 4.24 | 2041.35 | 6864.98 | 4.69 | 14.59 | 0.00 | 14.59 | 0.00 | 3.49 | 0.00 | 0.00 | 0.00 | 0.00 | 82.78 | 0.00 | 0. | 0.00 |
| 120 | 2.700 | 28.69 | 4.24 | 2043.77 | 6873.35 | 4.71 | 14.54 | 0.00 | 14.54 | 0.00 | 3.49 | 0.00 | 0.00 | 0.00 | 0.00 | 83.58 | 0.00 | 0. | 0.00 |
| 121 | 2.600 | 28.69 | 4.24 | 2046.16 | 6881.65 | 4.73 | 14.50 | 0.00 | 14.50 | 0.00 | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 | 84.37 | 0.00 | 0. | 0.00 |
| 122 | 2.500 | 28.70 | 4.24 | 2048.54 | 6889.88 | 4.75 | 14.46 | 0.00 | 14.46 | 0.00 | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 | 85.16 | 0.00 | 0. | 0.00 |
| 123 | 2.400 | 28.70 | 4.24 | 2050.90 | 6898.04 | 4.77 | 14.42 | 0.00 | 14.42 | 0.00 | 3.48 | 0.00 | 0.00 | 0.00 | 0.00 | 85.96 | 0.00 | 0. | 0.00 |
| 124 | 2.300 | 28.71 | 4.24 | 2053.23 | 6906.13 | 4.79 | 14.38 | 0.00 | 14.38 | 0.00 | 3.47 | 0.00 | 0.00 | 0.00 | 0.00 | 86.75 | 0.00 | 0. | 0.00 |
| 125 | 2.200 | 28.72 | 4.24 | 2055.55 | 6914.15 | 4.81 | 14.34 | 0.00 | 14.34 | 0.00 | 3.47 | 0.00 | 0.00 | 0.00 | 0.00 | 87.54 | 0.00 | 0. | 0.00 |
| 126 | 2.100 | 28.72 | 4.24 | 2057.84 | 6922.10 | 4.83 | 14.30 | 0.00 | 14.30 | 0.00 | 3.47 | 0.00 | 0.00 | 0.00 | 0.00 | 88.34 | 0.00 | 0. | 0.00 |
| 127 | 2.000 | 28.73 | 4.24 | 2060.12 | 6929.99 | 4.85 | 14.26 | 0.00 | 14.26 | 0.00 | 3.47 | 0.00 | 0.00 | 0.00 | 0.00 | 89.13 | 0.00 | 0. | 0.00 |
| 128 | 1.900 | 28.73 | 4.24 | 2062.38 | 6937.81 | 4.87 | 14.22 | 0.00 | 14.22 | 0.00 | 3.46 | 0.00 | 0.00 | 0.00 | 0.00 | 89.92 | 0.00 | 0. | 0.00 |
| 129 | 1.800 | 28.74 | 4.24 | 2064.61 | 6945.56 | 4.89 | 14.18 | 0.00 | 14.18 | 0.00 | 3.46 | 0.00 | 0.00 | 0.00 | 0.00 | 90.72 | 0.00 | 0. | 0.00 |
| 130 | 1.700 | 28.74 | 4.24 | 2066.84 | 6953.25 | 4.91 | 14.14 | 0.00 | 14.14 | 0.00 | 3.46 | 0.00 | 0.00 | 0.00 | 0.00 | 91.51 | 0.00 | 0. | 0.00 |
| 131 | 1.600 | 28.75 | 4.24 | 2069.04 | 6960.88 | 4.93 | 14.10 | 0.00 | 14.10 | 0.00 | 3.45 | 0.00 | 0.00 | 0.00 | 0.00 | 92.30 | 0.00 | 0. | 0.00 |
| 132 | 1.500 | 28.75 | 4.24 | 2071.22 | 6968.44 | 4.95 | 14.07 | 0.00 | 14.07 | 0.00 | 3.45 | 0.00 | 0.00 | 0.00 | 0.00 | 93.10 | 0.00 | 0. | 0.00 |
| 133 | 1.400 | 28.76 | 4.24 | 2073.39 | 6975.95 | 4.97 | 14.03 | 0.00 | 14.03 | 0.00 | 3.45 | 0.00 | 0.00 | 0.00 | 0.00 | 93.89 | 0.00 | 0. | 0.00 |
| 134 | 1.300 | 28.76 | 4.24 | 2075.54 | 6983.39 | 4.99 | 13.99 | 0.00 | 13.99 | 0.00 | 3.44 | 0.00 | 0.00 | 0.00 | 0.00 | 94.68 | 0.00 | 0. | 0.00 |
| 135 | 1.200 | 28.77 | 4.24 | 2077.67 | 6990.77 | 5.01 | 13.96 | 0.00 | 13.96 | 0.00 | 3.44 | 0.00 | 0.00 | 0.00 | 0.00 | 95.48 | 0.00 | 0. | 0.00 |
| 136 | 1.100 | 28.77 | 4.24 | 2079.78 | 6998.09 | 5.03 | 13.92 | 0.00 | 13.92 | 0.00 | 3.44 | 0.00 | 0.00 | 0.00 | 0.00 | 96.27 | 0.00 | 0. | 0.00 |
| 137 | 1.000 | 28.78 | 4.24 | 2081.88 | 7005.35 | 5.05 | 13.89 | 0.00 | 13.89 | 0.00 | 3.44 | 0.00 | 0.00 | 0.00 | 0.00 | 97.07 | 0.00 | 0. | 0.00 |
| 138 | 0.900 | 28.78 | 4.24 | 2083.96 | 7012.56 | 5.08 | 13.85 | 0.00 | 13.85 | 0.00 | 3.43 | 0.00 | 0.00 | 0.00 | 0.00 | 97.86 | 0.00 | 0. | 0.00 |
| 139 | 0.800 | 28.79 | 4.24 | 2086.02 | 7019.70 | 5.10 | 13.82 | 0.00 | 13.82 | 0.00 | 3.43 | 0.00 | 0.00 | 0.00 | 0.00 | 98.65 | 0.00 | 0. | 0.00 |
| 140 | 0.700 | 28.79 | 4.24 | 2088.07 | 7026.79 | 5.12 | 13.79 | 0.00 | 13.79 | 0.00 | 3.43 | 0.00 | 0.00 | 0.00 | 0.00 | 99.45 | 0.00 | 0. | 0.00 |
| 141 | 0.600 | 28.80 | 4.24 | 2090.10 | 7033.82 | 5.14 | 13.75 | 0.00 | 13.75 | 0.00 | 3.42 | 0.00 | 0.00 | 0.00 | 0.00 | 100.24 | 0.00 | 0. | 0.00 |
| 142 | 0.500 | 28.80 | 4.24 | 2092.11 | 7040.80 | 5.17 | 13.72 | 0.00 | 13.72 | 0.00 | 3.42 | 0.00 | 0.00 | 0.00 | 0.00 | 101.03 | 0.00 | 0. | 0.00 |
| 143 | 0.400 | 28.81 | 4.24 | 2094.10 | 7047.68 | 5.19 | 13.69 | 0.00 | 13.69 | 0.00 | 3.42 | 0.00 | 0.00 | 0.00 | 0.00 | 101.83 | 0.00 | 0. | 0.00 |
| 144 | 0.300 | 28.81 | 4.24 | 2095.96 | 7054.11 | 5.21 | 13.66 | 0.00 | 13.66 | 0.00 | 3.42 | 0.00 | 0.00 | 0.00 | 0.00 | 102.62 | 0.00 | 0. | 0.00 |
| 145 | 0.200 | 28.82 | 4.24 | 2096.35 | 7055.35 | 5.23 | 13.63 | 0.00 | 13.63 | 0.00 | 3.41 | 0.00 | 0.00 | 0.00 | 0.00 | 103.41 | 0.00 | 0. | 0.00 |

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 146    0.100  28.82  4.24  2078.60  6992.34   5.26  13.61   0.00  13.61   0.00   3.41   0.00   0.00   0.00   0.00 104.21    0.00       0.    0.00
 147    0.000  28.83  4.24  1833.05  6122.57   5.26  13.74   0.00  13.74   0.00   3.42   0.00   0.00   0.00   0.00 105.00    0.00       0.    0.00


STREAM SUMMARY                                                  BAYOU CHAUVIN 120507 WATERSHED MODEL
HEADWATER - BC01                                                BAYOU CHAUVIN 120507 SENSITIVITY RUN

 TRAVEL TIME       =           1.13 DAYS

 MAXIMUM EFFLUENT  =           0.00 PERCENT

 FLOW              =   3.51726 TO   23.14230   m³/s
 DISPERSION        =   1.5000  TO    1.5000    m²/s
 VELOCITY          =   0.06057 TO    0.21467   m/s
 DEPTH             =   1.03    TO    2.34      m
 WIDTH             =  25.30    TO   59.44      m

 BOD DECAY         =    0.07   TO    0.11      per day
 NH3 DECAY         =    0.00   TO    0.00      per day
 SOD               =    1.61   TO   28.14      g/m²/d
 NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
 REAERATION        =    0.61   TO    1.43      per day
 BOD SETTLING      =    0.48   TO    0.49      per day
 NBOD DECAY        =    0.03   TO    0.17      per day
 NBOD SETTLING     =    0.06   TO    0.06      per day

 TEMPERATURE       =   27.53   TO   28.83      deg C
 DISSOLVED OXYGEN  =    1.36   TO    5.26      mg/L



     .....BEGIN SENSITIVITY RUN  1 ON PARAMETER SET  1 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  13 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN  2 ON PARAMETER SET  1 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  11 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN  3 ON PARAMETER SET  2 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   9 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN  4 ON PARAMETER SET  2 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   9 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN  5 ON PARAMETER SET  3 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  13 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN  6 ON PARAMETER SET  3 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  11 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN  7 ON PARAMETER SET  4 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  11 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN  8 ON PARAMETER SET  4 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN  9 ON PARAMETER SET  5 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 10 ON PARAMETER SET  5 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
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     .....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 11 ON PARAMETER SET  6 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 12 ON PARAMETER SET  6 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 13 ON PARAMETER SET  7 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   9 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 14 ON PARAMETER SET  7 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   6 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 15 ON PARAMETER SET  8 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 16 ON PARAMETER SET  8 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 17 ON PARAMETER SET  9 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 18 ON PARAMETER SET  9 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  13 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 19 ON PARAMETER SET 10 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 20 ON PARAMETER SET 10 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 21 ON PARAMETER SET 11 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  13 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 22 ON PARAMETER SET 11 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 23 ON PARAMETER SET 12 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
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     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  12 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 24 ON PARAMETER SET 12 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  11 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 25 ON PARAMETER SET 13 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  13 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 26 ON PARAMETER SET 13 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  11 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 27 ON PARAMETER SET 14 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 28 ON PARAMETER SET 14 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 29 ON PARAMETER SET 15 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 30 ON PARAMETER SET 15 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 31 ON PARAMETER SET 16 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 32 ON PARAMETER SET 16 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 33 ON PARAMETER SET 17 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 34 ON PARAMETER SET 17 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 35 ON PARAMETER SET 18 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 36 ON PARAMETER SET 18 AND COLUMN  2
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.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 37 ON PARAMETER SET 19 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 38 ON PARAMETER SET 19 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 39 ON PARAMETER SET 20 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 40 ON PARAMETER SET 20 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 41 ON PARAMETER SET 21 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 42 ON PARAMETER SET 21 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 43 ON PARAMETER SET 22 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 44 ON PARAMETER SET 22 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 45 ON PARAMETER SET 23 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 46 ON PARAMETER SET 23 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 47 ON PARAMETER SET 24 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 48 ON PARAMETER SET 24 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 49 ON PARAMETER SET 25 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 50 ON PARAMETER SET 25 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....EXECUTION COMPLETED
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